

HBO

Electronics BUYERS' GUIDE 1986/1987



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e number; name of person to contact; number of engineers,
s and sales volume. Also includes sales offices and distributors
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SEPTEMBER 1986

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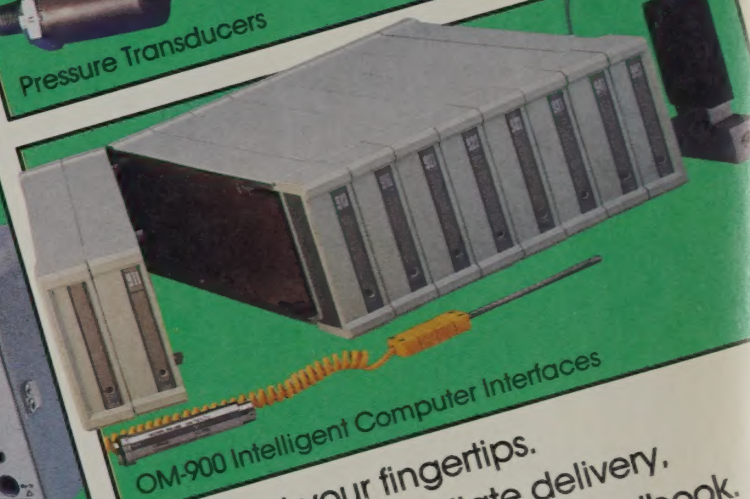
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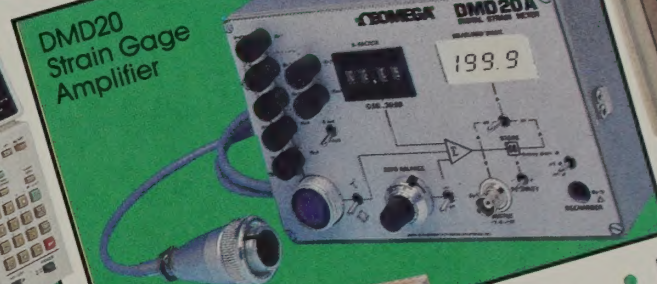
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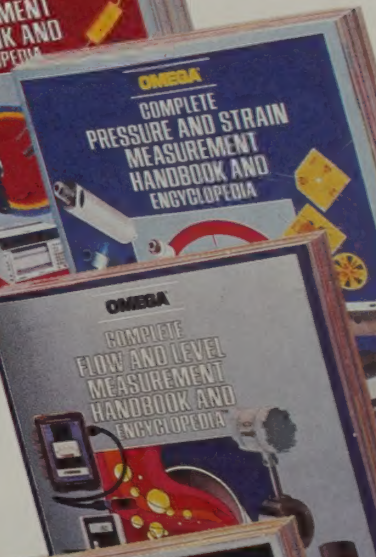
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Piscataway NJ	201-752-8300
Wilkinson Co Westlake Village CA	818-889-0050

ABSORBERS—MICROWAVE

TDK CORP TOKYO JAPAN	03-278-5111
Core-Tronics Inc Orange NJ	201-673-7660
Dielectric Commun Unit General Signal	
Raymond ME	207-655-4555
Emerson & Cuming Canton MA	617-828-3300
National Beryllia Div/General Ceramics Inc	
Haskell NJ	201-839-1600
Premier Microwave Corp Port Chester NY	914-939-8900
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Sohio Carborundum Niagara Falls NY	716-278-2521
TDK Corp Tokyo Japan	03-278-5111
Waveline Inc West Caldwell NJ	201-226-9100
Wescorp Div DAL Indus Inc Mt View CA	415-969-7717

ABSORBERS—SHOCK

See Vibration & Shock Mounts

ABSORBERS—SOUND

Allied Witan Co Inc Cleveland OH	216-237-9630
Barry Controls Unit Barry Wright Corp	
Watertown MA	617-923-1150
Control Electronics Co Inc Farmingdale NY	516-694-0125
E-A-R Div Cabot Corp Indianapolis IN	317-872-1111
Emerson & Cuming Canton MA	617-828-3300
Staff Gasket Mfg Corp New York NY	212-675-4097
Zippertubing Co Los Angeles CA	213-321-3901

ACCELERATION TRANSDUCERS

See Accelerometers; Transducers

ACCELERATORS—PARTICLE

Instrument Research Co Santa Barbara CA	805-962-8336
Maxwell Labs Inc San Diego CA	619-279-5100
Radiation Dynamics Inc Melville NY	516-752-1680
Thomson CSF Inc White Plains NY	914-694-4450
Trio-Tech International Burbank CA	213-846-9200

ACCELEROMETERS

ENTRAN DEVICES INC FAIRFIELD NJ	201-227-1002
ADV PG 6	
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
SCHAEVITZ ENGINEERING	
PENNSAUKEN NJ	609-662-8000
SETRA SYSTEMS INC ACTON MA	617-263-1400
TELEDYNE GEOTECH GARLAND TX	214-271-2561
Alpha-M Corp Euless TX	817-267-7022
Bell Aerospace Texttron Div Buffalo NY	716-297-1000
Bourns Inc Resistive Components Group	
Riverside CA	714-781-5050
Bruehl & Kjaer Instruments Inc Marlboro MA	617-481-7000
Columbia Research Labs Inc Woodlyn PA	215-872-3900
Endevco San Juan Capistrano CA	714-493-8181
Entran Devices Inc Fairfield NJ	201-227-1002
Hottinger Baldwin Measurements Inc	
Framingham MA	617-875-8282
Humphrey Inc San Diego CA	619-565-6631
IRD Mechanalysis Inc Columbus OH	614-885-5376
Kistler Instrument Corp Amherst NY	716-691-5100

Kulite Semiconductor Products Inc	
Ridgefield NJ	201-945-3000
Larson Aero Development Martinez CA	415-228-7870
Leasametric Inc Foster City CA	415-574-4441
Metrix Instrument Co Houston TX	713-461-2131
Northrop Corp Prec Prods Div Norwood MA	617-762-5300
Pace Transducer Co Div CJ Instr Inc	
Tarzana CA	818-996-4131
PCB Piezotronics Inc Depew NY	716-684-0001
Rochester Instrument Systems Inc	
Rochester NY	716-263-7700
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Sanders Associates Inc Nashua NH	603-885-4321
Schaevitz Engineering Pennsauken NJ	609-662-8000
Setra Systems Inc Acton MA	617-263-1400
Singer Co Kearfott Div Little Falls NJ	201-785-6000
Sprengnether Instruments Inc St Louis MO	314-535-1682
Sundstrand Data Control Inc Redmond WA	206-885-3711
Syston Donner Inertial Div Concord CA	415-671-6400
Teledyne Geotech Garland TX	214-271-2561
Telex Communications Inc Minneapolis MN	612-884-4051
Transducers & Systems Inc	
North Branford CT	203-481-5721
Transensory Devices Inc Fremont CA	415-490-3333
Unholtz-Dickie Corp Wallingford CT	203-265-3929
Vibra-Metrics Inc Hamden CT	203-288-6158
Vibro-Meter Corp Billerica MA	617-663-7322
Vitec Inc Cleveland OH	216-464-4670
West Coast Research Corp Los Angeles CA	213-478-8833
Wilcoxon Research Rockville MD	301-330-8811

AC EQUIPMENT

See Power Listings

ACIDS

See Chemicals

ACOUSTIC EQUIPMENT

See Absorbers—Sound

A-F Equipment Reference List

Chambers, Environmental—Acoustic Test

ACTUATORS—SERVO

See Servos—Actuators

ADAPTER PLUGS

See Plugs

ADAPTERS—CONNECTOR

See Connector Adapters

ADAPTERS FM STEREO

GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Histar Corp New York NY	212-679-2706
National Tel-Tronics Div Technodyne Inc	
Meadville PA	814-724-6440
Switchcraft Inc Chicago IL	312-792-2700
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

ADAPTERS—SHAFT

See Shaft Couplings

ADAPTERS—TEST

CONCORD ELECTRONICS CORP	
NEW YORK NY	212-777-6571
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
AAI Corp Baltimore MD	301-666-1400
Air-O-Tronics Div Trush Inc Cazenovia NY	315-655-2387
Augat/Pylon Co Inc Attleboro Falls MA	617-699-7646
Automatic Test Systems Malden MA	617-322-1107
Cablewave Sys Div Celwave Sys Inc	
North Haven CT	203-239-3311
Concord Electronics Corp New York NY	212-777-6571
Electronic Molding Corp Woonsocket RI	401-769-3800
Hewlett-Packard Palo Alto CA	415-857-8000
ITT Pomona Electronics Pomona CA	714-623-3463
Kings Electronics Co Inc Tuckahoe NY	914-793-5000
Kulka Smith Inc Manassas NJ	201-223-9400
Leasametric Inc Foster City CA	415-574-4441
Loranger Intl Corp Warren PA	418-723-2250
M/A COM Omni Spectra Inc Merrimack NH	603-424-4111
Meca Electronics Inc Denville NJ	201-625-0661
Micro Mode Products Inc El Cajon CA	619-449-3844
Microwave Engineering Corp	
North Andover MA	617-685-2776
The Narda Microwave Corp Hauppauge NY	516-231-1700
Projects Unlimited Inc Dayton OH	513-890-1918
Rutherford Research Co Rutherford NJ	201-933-2091
Sager Hingham MA	617-749-6700
Schaffner EMC Inc Instrument Div Union NJ	201-851-0644
Soltronic Microwave Connector Div	
Port Salerno FL	305-287-5000
Tektronix Inc Beaverton OR	800-547-6711

Telebyte Technology Inc Greenlawn NY	516-423-3232
United Microwave Products Inc Torrance CA	213-320-1244
Viz Test Equip Div Viz Mfg Co Philadelphia PA	215-844-2626
Weinschel Engineering Co Inc Gaithersburg MD	301-948-3434

ADAPTERS—TUBE

SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Alden Products Co Brockton MA	617-583-0160
ITT Pomona Electronics Pomona CA	714-623-3463
Loranger Intl Corp Warren PA	814-723-2250
Sager Hingham MA	617-749-6700
Workman Electronic Products Inc Sarasota FL	800-237-6666

ADF

See Receivers, Radio Navigation

ADHESIVE APPLICATION EQUIPMENT

SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Applied Plastics Co Inc El Segundo CA	213-322-8050
ARO Corp Bryan OH	419-636-4242
ASI Providence RI	401-331-9154
Assemblyonics Inc Brentwood NY	516-231-4440
Automation Unltd Inc Woburn MA	617-933-7288
Bostitch Div Textron Inc East Greenwich RI	401-884-2500
Chem-Mixx Corp Medford MA	617-935-7270
Chomerics Laminates Inc Hudson NH	603-880-4807
EFF Inc East Providence RI	401-434-1680
Fishman Corp Philip Holliston MA	617-429-2050
Formax Div Indicon Inc Brookfield CT	203-775-1287
Formulated Resins Inc Greenville RI	401-949-2060
Hardman Incorporated Belleville NJ	201-751-3000
Hurlerion Inc Danville IL	217-446-6500
Icon Corp Cambridge MA	617-868-5400
Laurier Associates Inc Hudson NH	603-889-8800
Henry Mann Inc Huntingdon Valley PA	215-355-7200
New Jersey Machine Inc Fairfield NJ	201-227-8300
Otto Controls Div Otto Engrg Inc Carpentersville IL	312-428-7171
Roan Industries Inc Pacoima CA	818-767-7047
Sager Hingham MA	617-749-6700
Tapecon Inc Rochester NY	716-621-8400
Techon Systems Inc Carson CA	213-603-8888
Tra-Con Inc Medford MA	617-391-5550
Tridak Div Indicon Inc Brookfield CT	203-775-1287
Twin Rivers Engineering Inc E Boothbay ME	207-633-2975
Unimation Inc Danbury CT	203-744-1800

ADHESIVES—CONDUCTING

CONAP INC OLEAN NY	716-372-9650
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
TECKNIT CRANFORD NJ	201-272-5500
Aavid Engineering Inc Laconia NH	603-524-4443
Ablestick Laboratories Gardena CA	213-532-9341
Acme Div Allied Prods Corp New Haven CT	203-562-2171
Adhesives Research Inc Glen Rock PA	717-235-7979
Applied Plastics Co Inc El Segundo CA	213-322-8050
Assemblyonics Inc Brentwood NY	516-231-4440
Astrodyne Inc Hudson NH	603-880-8600
Bacon Industries Inc Watertown MA	617-926-2550
Castall Inc E Weymouth MA	617-337-6075
Chomerics Inc Woburn MA	617-935-4850
Chomerics Laminates Inc Hudson NH	603-880-4807
Conap Inc Olean NY	716-372-9650
Dynalloy Inc Hanover NJ	201-887-9270
Echelon Industries Inc Walnut CA	714-594-1891
Electro-Science Labs Inc King of Prussia PA	215-272-8000
Emerson & Cuming Canton MA	617-828-3300
Epoxy Technology Inc Billerica MA	617-667-3805
Formulated Resins Inc Greenville RI	401-949-2060
Furane Products Co Los Angeles CA	818-247-6210
Hardman Incorporated Belleville NJ	201-751-3000
Hysol Div The Dexter Corp Industry CA	213-968-6511
Isochem Products Co Sub Rohm & Haas Lincoln RI	401-723-2100
Keene Corp Laminates Div East Providence RI	401-434-2340
M & T Chemicals Inc Rahway NJ	201-499-0200
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Master Bond Inc Englewood NJ	201-343-8983
Mereco Div Metachem Resins Corp Warwick RI	401-828-4550
Micro-Circuits Co New Buffalo MI	616-469-2727
National Starch & Chemical Corp Bridgewater NJ	201-685-5000
Norton Co Worcester MA	617-853-1000
PCK Elastomerics Inc Hatboro PA	215-672-0787
The PQ Corp Valley Forge PA	215-293-7200
Sager Hingham MA	617-749-6700
SWS Silicones Corp Adrian MI	517-263-5711
Technit Cranford NJ	201-272-5500
Toplight Corp York PA	717-843-9901
Tra-Con Inc Medford MA	617-391-5550
Transene Co Inc Rowley MA	617-948-2501
Wescorp Div DAL Indus Inc Mt View CA	415-969-7717

ADHESIVES—GENERAL PURPOSE

CONAP INC OLEAN NY	716-372-9650
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Ablestick Laboratories Gardena CA	213-532-9341

Adhesives Research Inc Glen Rock PA	717-235-7979
Allaco Div Bacon Indus Inc Watertown MA	617-926-2550
Applied Plastics Co Inc El Segundo CA	213-322-8050
Armstrong Products Co Warsaw IN	219-267-3226
Armstrong World Industries Inc Lancaster PA	717-397-0611
ASI Providence RI	401-331-9154
Assemblyonics Inc Brentwood NY	516-231-4440
Bacon Industries Inc Watertown MA	617-926-2550
Bostitch Div Textron Inc East Greenwich RI	401-884-2500
Brady Co W H Industrial Prods Div Milwaukee WI	414-351-6630
Castall Inc E Weymouth MA	617-337-6075
Chomerics Laminates Inc Hudson NH	603-880-4807
CHR Industries Inc New Haven CT	203-777-3631
Conap Inc Olean NY	716-372-9650
Cotronics Corp Brooklyn NY	718-646-7996
Cox & Company Inc New York NY	212-674-4727
Devcon Industrial Products Hebron IL	815-648-2424
Devcon Corp Danvers MA	617-777-1100
Dolph Co John C Monmouth Junction NJ	201-329-2333
Dow Corning Corp Midland MI	517-496-4000
Eastman Chemical Products Inc Kingsport TN	800-327-8626
Eastman Kodak Co Rochester NY	716-724-4000
Emerson & Cuming Canton MA	617-828-3300
Epoxyllite Corp Anaheim CA	714-630-7910
Epoxy Technology Inc Billerica MA	617-667-3805
Fel Pro Inc Skokie IL	312-761-4500
Fenwal Inc Ashland MA	617-881-2000
Formulated Resins Inc Greenville RI	401-949-2060
Furane Products Co Los Angeles CA	818-247-6210
GC Electronics Div Household Intl Rockford IL	815-968-9661
General Electric Co Silicone Prods Div Waterford NY	518-237-3330
Hardman Incorporated Belleville NJ	201-751-3000
Hightemp Resins Inc Stamford CT	203-357-7401
Homalite Inc Wilmington DE	302-652-3686
Hysol Div The Dexter Corp Industry CA	213-968-6511
Isochem Products Co Sub Rohm & Haas Lincoln RI	401-723-2100
Keene Corp Laminates Div East Providence RI	401-434-2340
Leepoxy Plastics Inc Fort Wayne IN	219-747-7411
Master Bond Inc Englewood NJ	201-343-8983
Mereco Div Metachem Resins Corp Warwick RI	401-828-4550
Metron Optics Inc Solana Beach CA	619-755-4477
National Starch & Chemical Corp Bridgewater NJ	201-685-5000
Norton Co Worcester MA	617-853-1000
Oneida Electronic Mfg Inc Meadville PA	814-336-2125
Pierce & Stevens Chemical Corp Buffalo NY	716-631-9951
Plastics Consulting & Mfg Co Camden NJ	609-963-7701
Polytronix Inc Richardson TX	214-238-7045
The PQ Corp Valley Forge PA	215-293-7200
Rawn Co Inc Spooner WI	715-636-7000
Sager Hingham MA	617-749-6700
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Sheldahl Inc Northfield MN	507-663-8000
SMC Carbon Products Fairfield NJ	201-227-2432
Smooth-On Inc Gillette NJ	201-647-5800
SPC Technology Bensenville IL	312-766-6711
Sperex Corp Gardena CA	213-323-6162
Sterling Group Reichhold Chemicals Sewickley PA	412-766-7600
Stock Drive Products Inc Div Designatronics New Hyde Park NY	516-328-0200
Toplight Corp York PA	717-843-9901
Tra-Con Inc Medford MA	617-391-5550
Transene Co Inc Rowley MA	617-948-2501
Workman Electronic Products Inc Sarasota FL	800-237-6666

ADHESIVES—HIGH TEMPERATURE (OVER 125 DEGREES C)

CONAP INC OLEAN NY	716-372-9650
OMEGA ENGINEERING INC STAMFORD CT	203-359-1660
ADV PG Gatefold	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Ablestick Laboratories Gardena CA	213-532-9341
Acme Div Allied Prods Corp New Haven CT	203-562-2171
Adhesives Research Inc Glen Rock PA	717-235-7979
Allaco Div Bacon Indus Inc Watertown MA	617-926-2550
Applied Plastics Co Inc El Segundo CA	213-322-8050
Aremco Products Inc Ossining NY	914-762-0685
Armstrong Products Co Warsaw IN	219-267-3226
Assemblyonics Inc Brentwood NY	516-231-4440
Bacon Industries Inc Watertown MA	617-926-2550
Castall Inc E Weymouth MA	617-337-6075
Chomerics Laminates Inc Hudson NH	603-880-4807
Conap Inc Olean NY	716-372-9650
Cotronics Corp Brooklyn NY	718-646-7996
Dennis Chemical Co St Louis MO	314-771-1800
Devcon Corp Danvers MA	617-777-1100
Dolph Co John C Monmouth Junction NJ	201-329-2333
Dow Corning Corp Midland MI	517-496-4000
Ducey Chemical Inc Princeton Junction NJ	609-799-3191
Duramic Products Inc Palisades Park NJ	201-947-8313
Eastman Chemical Products Inc Kingsport TN	800-327-8626
Electro-Science Labs Inc King of Prussia PA	215-272-8000
Emerson & Cuming Canton MA	617-828-3300
Epoxyllite Corp Anaheim CA	714-630-7910
Epoxy Technology Inc Billerica MA	617-667-3805
Fel Pro Inc Skokie IL	312-761-4500
Formulated Resins Inc Greenville RI	401-949-2060
Furane Products Co Los Angeles CA	818-247-6210
General Electric Co Silicone Prods Div Waterford NY	518-237-3330
Hardman Incorporated Belleville NJ	201-751-3000
Hexcel Corp Dublin CA	415-828-4200
Hightemp Resins Inc Stamford CT	203-357-7401
Hysol Div The Dexter Corp Industry CA	213-968-6511
Isochem Products Co Sub Rohm & Haas Lincoln RI	401-723-2100

Keene Corp Laminates Div East Providence RI	401-434-2340
Leepoxy Plastics Inc Fort Wayne IN	219-747-7411
Master Bond Inc Englewood NJ	201-343-8983
Mereco Div Metachem Resins Corp Warwick RI	401-828-4550
National Starch & Chemical Corp Bridgewater NJ	201-685-5000
Norton Co Worcester MA	617-853-1000
Norton Performance Plastics Wayne NJ	201-696-4700
Omega Engineering Inc Stamford CT	203-359-1660
Oneida Electronic Mfg Inc Meadville PA	814-336-2125
Phoenix Materials Corp Kittanning PA	412-548-1531
Plastics Consulting & Mfg Co Camden NJ	609-963-7700
The PQ Corp Valley Forge PA	215-293-7200
RdF Corp Hudson NH	603-882-5195
Remtek Corp Fremont CA	415-490-3999
Sager Hingham MA	617-749-6700
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Sheldahl Inc Northfield MN	507-663-8000
SMC Carbon Products Fairfield NJ	201-227-2432
Smooth-On Inc Gillette NJ	201-647-5800
Sterling Group Reichhold Chemicals Sewickley PA	412-766-7600
SWS Silicones Corp Adrian MI	517-263-5711
Thermal American Fused Quartz Co Montville NJ	201-334-7770
Toplight Corp York PA	717-843-9901
Tra-Con Inc Medford MA	617-391-5550
Transene Co Inc Rowley MA	617-948-2501
Wescorp Div DAL Indus Inc Mt View CA	415-969-7717

ADHESIVES—INSULATING

CONAP INC OLEAN NY	716-372-9650
Ablestick Laboratories Gardena CA	213-532-9341
Adhesives Research Inc Glen Rock PA	717-235-7979
Allaco Div Bacon Indus Inc Watertown MA	617-926-2550
Applied Plastics Co Inc El Segundo CA	213-322-8050
Aremco Products Inc Ossining NY	914-762-0685
Armstrong Products Co Warsaw IN	219-267-3226
Astrodyne Inc Hudson NH	603-880-8600
Bacon Industries Inc Watertown MA	617-926-2550
Berg Inc Winfred M East Rockaway NY	516-599-5010
Biwax Corp Des Plaines IL	312-824-0137
Castall Inc E Weymouth MA	617-337-6075
Chomerics Laminates Inc Hudson NH	603-880-4807
Conap Inc Olean NY	716-372-9650
Cotronics Corp Brooklyn NY	718-646-7996
Cox & Company Inc New York NY	212-674-4727
Devcon Corp Danvers MA	617-777-1100
Dolph Co John C Monmouth Junction NJ	201-329-2333
Dow Corning Corp Midland MI	517-496-4000
Dynalloy Inc Hanover NJ	201-887-9270
Epoxyllite Corp Anaheim CA	714-630-7910
Epoxy Technology Inc Billerica MA	617-667-3805
Formulated Resins Inc Greenville RI	401-949-2060
Furane Products Co Los Angeles CA	818-247-6210
General Electric Co Silicone Prods Div Waterford NY	518-237-3330
Hardman Incorporated Belleville NJ	201-751-3000
Hysol Div The Dexter Corp Industry CA	213-968-6511
Isochem Products Co Sub Rohm & Haas Lincoln RI	401-723-2100
Keene Corp Laminates Div East Providence RI	401-434-2340
Leepoxy Plastics Inc Fort Wayne IN	219-747-7411
Light Fabrications Inc Rochester NY	716-235-6310
Master Bond Inc Englewood NJ	201-343-8983
Mereco Div Metachem Resins Corp Warwick RI	401-828-4550
National Starch & Chemical Corp Bridgewater NJ	201-685-5000
Norton Co Worcester MA	617-853-1000
The PQ Corp Valley Forge PA	215-293-7200
Sterling Group Reichhold Chemicals Sewickley PA	412-766-7600
SWS Silicones Corp Adrian MI	517-263-5711
Toplight Corp York PA	717-843-9901
Tra-Con Inc Medford MA	617-391-5550
Transene Co Inc Rowley MA	617-948-2501

A-F EQUIPMENT

See Acoustic Equipment

Amplifiers, A-F

Analyzers—Noise

Analyzers—Spectrum, A-F

Attenuators, A-F

Audio Systems

Bridges—Impedance

Cables, Shielded—A-F

Cables, Unshielded—A-F

Calibrators, Frequency—A-F

Coils—Choke, A-F

Connectors—A-F & Microphone

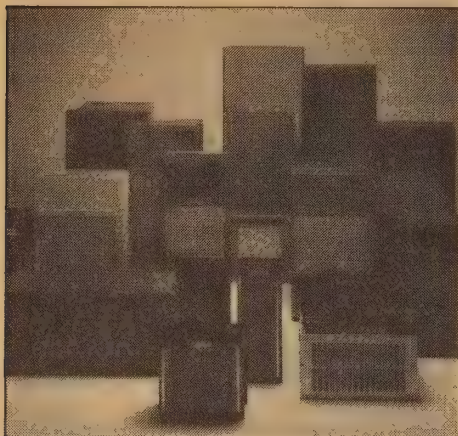
Controls—A-F

Controls—Audio System Consoles

Delays—A-F

Filters—A-F

Generators, Noise—A-F



AIR CONDITIONERS FOR ELECTRONIC ENCLOSURES

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Oscillators Listings

Speakers

Transformers—A-F

AGING RACKS

See Racks

AIR CLEANERS

See Cleaners—Air; Cleaning Filters—Air

AIR CONDITIONERS

MCLEAN MIDWEST SUB ZERO CORP

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ADV PG 8

Air-A-Plane Corp Norfolk VA 804-622-5761
ATACS Corp Oxford PA 215-932-3000
Hoffman Engineering Co Div Fed Cartridge Corp
Anoka MN 612-421-2240
Kooltronic Inc Hopewell NJ 415-365-0632
Lear Siegler Inc Santa Monica CA 213-452-5444
McLean Midwest Sub Zero Corp
Brooklyn Park MN 612-561-9400
Noren Products Inc Menlo Park CA 415-365-0632
Square D Co Palatine IL 312-397-2600
Stone Safety Corp Wallingford CT 203-285-7131
ThermoElectric Cooling America Corp
Chicago IL 312-666-1600

AIRCRAFT COMMUNICATIONS EQUIPMENT

See Communications Listings

AIRCRAFT COMPUTERS—

See Computers—Aerospace

AIRCRAFT FLIGHT SIMULATORS

CONTROL TECHNOLOGY CO INC

LONG ISLAND CITY NY 718-361-2133

Benton Corp Warrendale PA 412-776-5577

Burtek Tulsa OK 918-836-4621

Computer Sciences Corp El Segundo CA 213-615-0311

Control Technology Co Inc

Long Island City NY 718-361-2133

Farrand Optical Co Inc Valhalla NY 914-428-6800

Goodyear Aerospace Corp Akron OH 216-796-2121

Grumman Electronics Systems Div

Great River NY 516-435-6000

Industrial Control Co Rockledge FL 305-259-7105

Kaybar Corp Little Ferry NJ 201-440-3848

Malwin Electronics Corp Paterson NJ 201-881-1500

McDonnell Douglas Electronics St Charles MO 314-925-4000

McFadden Systems Inc South Gate CA 213-564-5958

Reflectone Inc Tampa FL 813-885-7481

AIRCRAFT GUIDANCE & NAVIGATION

SYSTEMS (AIRBORNE)

See Also Radar; Receivers; Transmitters

Lear Siegler Inc Santa Monica CA 213-452-5444

Lear Siegler Inc Instrument Div

Grand Rapids MI 616-241-7000

Litton Systems Inc Laser Sys Div Orlando FL 305-295-4010

AIRCRAFT INSTRUMENTS (EXCEPT ALTIMETERS & COMPASSES)

CONTROL TECHNOLOGY CO INC

LONG ISLAND CITY NY 718-361-2133

Aircraft Instruments Co Doylestown PA 215-348-5274

Borg Instruments Inc Delavan WI 414-728-5531

Bowmar Instrument Corp Ft Wayne Div

Ft Wayne IN 219-747-3121

Clifton Precision Litton Systems Inc

Clifton Hts PA 215-622-1000

Control Technology Co Inc

Long Island City NY 718-361-2133

Dumont Instrumentation Inc Commack NY 516-864-8500

Fairchild Weston Systems Inc Syosset NY 516-349-2200

Hickok Electrical Instrument Co Cleveland OH 216-541-8060

Lear Siegler Inc Santa Monica CA 213-452-5444

Lear Siegler Inc Instrument Div

Grand Rapids MI 616-241-7000

Midland Ross Corp/General Design

Sun Valley CA 213-875-1260

Penn Airborne Products Co Southampton PA 215-355-3400

Rockwell Intl Corp Commercial Elctns Opers

Richardson TX 214-996-5000

Scientific Technology Inc Mtn View CA 415-965-0910

Singer Co Kearfott Div Little Falls NJ 201-785-6000

Sperry Corp Aerospace & Marine Group

Phoenix AZ 602-869-2311

Universal Corp Grand Junction CO 303-242-5267

AIR FREIGHT

See Shipping Services

AIR POLLUTION DETECTORS

See Pollution Detectors

AIR TRAFFIC CONTROL EQUIPMENT

See Aircraft Guidance & Navigation

Systems—Tactical Radio

Communication Systems—Airport Traffic Control

Display Systems—CRT, Air Traffic Command &

Control

Radar Listings

Receivers, Radio Navigation

Transmitters, Radio Navigation

ALARM DEVICES (EXCEPT ANNUNCIATORS)

CONTROL TECHNOLOGY CO INC

LONG ISLAND CITY NY 718-361-2133

ENVIROMARINE SYSTEMS INC

LAUREL MD 301-598-8833

ISKRA ELECTRONICS INC

FARMINGDALE NY 516-753-0400

MG ELECTRONICS HAUPPAUGE NY 516-582-3400

MURATA ERIE NORTH AMERICA INC

SMYRNA GA 404-436-1300

ADV PG 9

OMEGA ENGINEERING INC

STAMFORD CT 203-359-1660

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TELEDYNE GEOTECH GARLAND TX 214-271-2561

Accurate Electronics Corp Elyria OH 216-365-1211

Acromag Inc Wixom MI 313-624-1541

Action Instruments Inc San Diego CA 619-279-5726

Acurex Autodata Mountain View CA 415-964-3200

Amperite Co Inc Union City NJ 201-864-9503

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Aristo-Craft New York NY 212-924-4041

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Autocon Industries Inc St Paul MN 612-642-1784

Autronics Corp Arcadia CA 818-445-5470

Barnes Engineering Co Stamford CT 203-348-5381

Bell Inc Floyd Columbus OH 614-488-3193

Bindicator Port Huron MI 313-987-2700

Blatek Industries Inc Bellefonte PA 814-355-4910

Chromalox Instruments & Control

Lavergne TN 615-793-3900

Communifonics Ltd Bohemia NY 516-567-8320

Continental Instruments Corp Westbury NY 516-334-0900

Control Technology Co Inc

Long Island City NY 718-361-2133

Dataprobe Inc Palisades Park NJ 201-947-9500

Data Voice Corp Chicago IL 312-831-4488

Da-Tel Research Co Inc Montrose CO 303-249-6129

Deca Mfg Co Inc Lexington OH 419-884-0071

Dexter Research Center Inc Dexter MI 313-426-3921

Dillon & Co Inc W C Santa Rosa CA 707-527-5555

Doric Scientific Div Emerson Elec Co

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Electro-Alarm Safety Devices Fresno CA 209-264-6894

Electronics Warehouse Inc Old Lyme CT 203-434-9838

Electroshield Inc Yellow Springs OH 513-767-1054

Endicott Coil Co Inc Binghamton NY 607-797-1263

Enviromarine Systems Inc Laurel MD 301-558-8833

Epsilon-Lambda Electronics Corp Geneva IL 312-232-9611

Fabricel NV/SA Sint-Niklaas Belgium 776 48 38

Floyd Bell Associates Inc Columbus OH 614-468-3193

GC Electronics Div Household Int'l

Rockford IL 815-968-9661

GTE Govt System Western Div Mt View CA 415-966-2000

Harris Corp RF Commun Grp Rochester NY 716-244-5830

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Hy-Cal Engineering El Monte CA 818-444-0000

Industrial Computer Designs Inc

Westlake Village CA 818-889-3179

Industrial Programming Inc Jericho NY 516-938-6600

Infrared Industries Inc Detector Div

Orlando FL 305-282-7700

Innovation Industries Inc Russellville AR 501-968-2232

IRD Mechanalysis Inc Columbus OH 614-895-5376

ISKRA Electronics Inc Farmingdale NY 516-753-0400

Kalgio Electronics Co Inc Bathlehem PA 215-837-0700

K C Industries Inc Cambridge NE 308-697-4711

Kel Corp Melrose MA 617-662-2222

Kurz Instruments Inc Carmel Valley CA 408-659-3421

Kysor/Cadillac Cadillac MI 616-775-4681

Lark Electronics Inc New York NY 212-569-0430

Larse Corp Santa Clara CA 408-988-6600

Love Controls Corp Wheeling IL 312-541-3232

Massa Products Corp Hingham MA 617-749-4800

McDonnell Douglas Electronics St Charles MO 314-925-4000

MG Electronics Hauppauge NY 516-582-3400

Modular Command Systems Inc

Fountain Valley CA 714-963-8844

Moseley Associates Inc Goleta CA 805-968-9621

Mountain West Alarm Supply Co Phoenix AZ 602-263-8831

Murata Erie North America Inc Smyrna GA 404-436-1300

Nutone Div Scovill Mfg Co Cincinnati OH 513-527-5100

Oklahoma Aerotronics Inc Hartshorne OK 918-297-2566

Omega Engineering Inc Stamford CT 203-359-1660

Pan American Trade Development Corp

New York NY 212-481-1800

Paraplegics Mfg Co Inc Bensenville IL 312-625-7740

Philmore Mfg Co Inc Inwood NY 516-239-6161

Poly-Scientific Litton Systems Inc

Blacksburg VA 703-552-3011

Precision Digital Corp Watertown MA 617-924-2256

Princo Instruments Inc Southampton PA 215-355-1500

Projectapix II New York NY 212-765-7869

Projects Unlimited Inc Dayton OH 513-890-1918

Pyrotec Inc Hingham MA 617-749-3466

Raven Industries Inc Sioux Falls SD 605-336-2750

Rexnord Gas Detection Products

Sunnyvale CA 408-734-1221

RIL Electronics Inc Warrington PA 215-343-5075

Roberts Security & Page Service

Torrance CA 213-378-0451

Rochester Instrument Systems Inc

Rochester NY 716-263-7700

Rusco Electronic Systems Glendale CA 818-240-2540

Scientific Technology Inc Mtn View CA 415-965-0910

Seaboard Electronics Div Nealor Corp

New Rochelle NY 914-235-8073

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Teletro Systems Corp Corona NY	212-651-8900
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Texcon Corp Phoenix AZ	602-252-5021
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Thunder Scientific Corp Albuquerque NM	505-265-8701
Universal Corp Grand Junction CO	303-242-5267
Venator Systems Inc San Jose CA	408-262-7788
Vicon Industries Inc Melville NY	516-293-2200
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ALARM SYSTEMS

See Fire Detectors & Alarms; Gas Detectors & Alarms; Security Systems

ALLOYS

See Metals Listings

See Also Brazing Alloys; Solder; Wire, Bare

ALNICO

See Magnets

ALTERNATORS

See Power Generators

ALTERNATORS—PERMANENT MAGNET

GEORATOR CORP MANASSAS VA	703-368-2101
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Bosch Corp Robert Automotive Group	
Broadview IL	312-865-5459
Electric Indicator Co Inc Norwalk CT	203-847-5861
Electro-Pacific Inc Goleta CA	805-964-4878
Engelhard Industries Iselin NJ	201-321-5900
Georator Corp Manassas VA	703-368-2101
Hale Instrument Inc Houston TX	713-861-7574
Inland Motor Specialty Prods Div-Kolimorgen Corp	
Radford VA	703-639-9045

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Bendix Air Transport Avionics Div	
Ft Lauderdale FL	305-928-2100
Benthos Inc North Falmouth MA	617-540-5500
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311

ALUMINA

See Ceramic Listings

ALUMINUM

See Metals—Aluminum; Wire, Bare—Aluminum

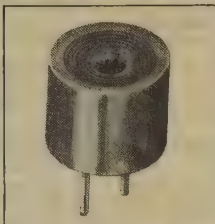
AMATEUR RADIO EQUIPMENT

See Communications Equipment Reference List

AMMETERS, AC—DIGITAL (EXCEPT PANEL)

CLARKE-HESS COMMUNICATIONS RESEARCH	
NEW YORK NY	212-255-2940
ELECTRO INDUSTRIES DIV EI ELCTNS INC	
WESTBURY NY	516-334-0870
HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
MODUTEC INC NORWALK CT	203-853-3636
Amprobe Instrument Div Core Indus Inc	
Lynbrook NY	516-593-5600
Anasco Corp Wakefield MA	617-246-3300
Axonix Corp Burlington MA	617-273-5550
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Bell Inc F W Orlando FL	305-678-6900
B & K Precision Products Dynascan Corp	
Chicago IL	312-889-9087
Clarke-Hess Communications Research	
New York NY	212-255-2940
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Data Precision Div Analogic Danvers MA	617-246-1600
Dranetz Technologies Inc Edison NJ	201-287-3680
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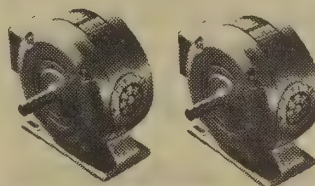
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Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Guidline Instruments Inc Orlando FL	305-423-8215
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
Hunter Products Inc Bridgewater NJ	201-526-8440
Keithley Instruments Inc Cleveland OH	216-248-0400
Leasametric Inc Foster City CA	415-574-4441
Micro Instrument Co Escondido CA	619-746-2010
Modutec Inc Norwalk CT	203-853-3636
North American Soar Corp Cherry Hill NJ	609-488-1060
Ohio Semitronics Inc Columbus OH	614-486-9561
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
PPM Inc Cleveland OH	216-292-6006
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Sigma Instruments Inc Fisher Pierce Div	
Braintree MA	617-843-5000
Simpson Electric Co Elgin IL	312-697-2260
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
Triplett Corp/A Penril Div Bluffton OH	419-358-5015
Valhalla Scientific Inc San Diego CA	619-457-5576

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Amprobe Instrument Div Core Indus Inc	
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Anasco Corp Wakefield MA	617-246-3300
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Bitronics Inc Bethlehem PA	215-865-2444
B & K Precision Products Dynascan Corp	
Chicago IL	312-889-9087
Calibron Instruments Div Burton-Rogers Co	
Waltham MA	617-894-6440
Caltemp Instrument Inc Escondido CA	714-743-2800
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
E I L Instruments Inc Sparks MD	301-771-4800
Electrical Instrument Service Inc	
Mt Vernon NY	914-699-9717
Electronics Warehouse Inc Old Lyme CT	203-434-9838
En-Cer Inc South Holland IL	312-339-6310
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Greibach Instruments Mt Vernon NY	914-699-9717
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Larson Instrument Co Inc Orangeburg NY	914-359-3800
Midwest Electric Products Inc Mankato MN	507-625-4414
North American Soar Corp Cherry Hill NJ	609-488-1060
Ohio Semitronics Inc Columbus OH	614-486-9561
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Phaestron Instrument & Elect Co Azusa CA	818-969-6801
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
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Sargent-Welch Scientific Co Skokie IL	312-677-0600
Sensitive Research Instruments Mt Vernon NY	914-699-9717
Simpson Electric Co Elgin IL	312-697-2260
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
States Co Div Multi-Amp Corp Dallas TX	214-333-3201
Tettex Instruments Inc Fairview Village PA	215-539-6050
Triplett Corp/A Penril Div Bluffton OH	419-358-5015
Viz Test Equip Div Viz Mfg Co	
Philadelphia PA	215-844-2626
Yokogawa Corp Of America Shenandoah GA	404-253-7000

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MODUTEC INC NORWALK CT	203-853-3636
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
A & D Electrical Instruments Glendale NY	718-275-6516
A & M Instrument Inc Rockville Centre NY	516-678-6960
Amprobe Instrument Div Core Indus Inc	
Lynbrook NY	516-593-5600
Barlett Instrument Co Fort Madison IA	319-372-8366
Caltemp Instrument Inc Escondido CA	714-743-2800
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Dixon Inc Grand Junction CO	303-242-8863
E I L Instruments Inc Sparks MD	301-771-4800
En-Cer Inc South Holland IL	312-339-6310
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hoyt Electrical Instrument Wks Inc	
Penacook NH	603-753-6321
Larson Instrument Co Inc Orangeburg NY	914-359-3800
LFE Corp Instruments Div Clinton MA	617-835-1000
Modutec Inc Norwalk CT	203-853-3636
NES Inc Carpentersville IL	312-426-5900
Phaestron Instrument & Elect Co Azusa CA	818-969-6801
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Q V S Inc East Orange NJ	201-673-3996
Shokai Far East Ltd Hartsdale NY	914-681-0700
Simpson Electric Co Elgin IL	312-697-2260
Square D Co Palatine IL	312-397-2600
Tettex Instruments Inc Fairview Village PA	215-539-6050
Triplett Corp/A Penril Div Bluffton OH	419-358-5015
Westberg Mfg Inc Sonoma CA	707-938-2121
Yokogawa Corp Of America Shenandoah GA	404-253-7000

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BRIDGEWATER NJ	201-526-8440
MODUTEC INC NORWALK CT	203-853-3636
AEMC Corp Boston MA	617-451-0227
American Aerospace Controls Inc	
Farmingdale NY	516-694-5100
Amprobe Instrument Div Core Indus Inc	
Lynbrook NY	516-593-5600
Anasco Corp Wakefield MA	617-246-3300
Bell Inc F W Orlando FL	305-678-6900
Biddle Instruments-Sensitex Blue Bell PA	215-646-9200
Calibron Instruments Div Burton-Rogers Co	
Waltham MA	617-894-6440
Caltemp Instrument Inc Escondido CA	714-743-2800
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Dranetz Technologies Inc Edison NJ	201-287-3680
E I L Instruments Inc Sparks MD	301-771-4800
Electronics Warehouse Inc Old Lyme CT	203-434-9838
Epic Inc New York NY	212-349-2470
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hoyt Electrical Instrument Wks Inc	
Penacook NH	603-753-6321
Hunter Products Inc Bridgewater NJ	201-526-8440
Leasametric Inc Foster City CA	415-574-4441
Modutec Inc Norwalk CT	203-853-3636
North American Soar Corp Cherry Hill NJ	609-488-1060
Ohio Semiconductors Inc Columbus OH	614-486-9561
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Reliance Electric Co Cleveland OH	800-245-4497
Simpson Electric Co Elgin IL	312-697-2260
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
Sterling Mfg Co Cleveland OH	216-781-7136
Triplet Corp/A Penril Div Bluffton OH	419-358-5015
Universal Enterprises Inc Portland OR	503-644-8723
Vahlia Scientific Inc San Diego CA	619-457-5576
Viz Test Equip Div Viz Mfg Co	
Philadelphia PA	215-844-2626
Yokogawa Corp Of America Shenandoah GA	404-253-7000

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Amprobe Instrument Div Core Indus Inc	
Lynbrook NY	516-593-5600
Anasco Corp Wakefield MA	617-246-3300
Biddle Instruments-Sensitex Blue Bell PA	215-646-9200
Bitronics Inc Bethlehem PA	215-865-2444
Calibron Instruments Div Burton-Rogers Co	
Waltham MA	617-894-6440
E I L Instruments Inc Sparks MD	301-771-4800
Keithley Instruments Inc Cleveland OH	216-248-0400
Larson Instrument Co Inc Orangeburg NY	914-359-3800
Ohio Semiconductors Inc Columbus OH	614-486-9561
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
Triplet Corp/A Penril Div Bluffton OH	419-358-5015
Viz Test Equip Div Viz Mfg Co	
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Anasco Corp Wakefield MA	617-246-3300
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Bell Inc F W Orlando FL	305-678-6900
B & K Precision Products Dynascan Corp	
Chicago IL	312-889-9087
Calibron Instruments Div Burton-Rogers Co	
Waltham MA	617-894-6440
Caltemp Instrument Inc Escondido CA	714-743-2800
Crompton Instruments Inc	
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Data Precision Div Analogic Danvers MA	617-246-1600
DigiTec Dayton OH	513-254-6251
Dranetz Technologies Inc Edison NJ	201-287-3680
E I L Instruments Inc Sparks MD	301-771-4800
Electronics Warehouse Inc Old Lyme CT	203-434-9838
Epoch Enterprises Ltd Tucson AZ	602-887-1970
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
Keithley Instruments Inc Cleveland OH	216-248-0400
Leasametric Inc Foster City CA	415-574-4441
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Pacific Instruments Inc Concord CA	415-827-9010
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Racal-Dana Instruments Inc Irvine CA	714-859-8999
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Universal Enterprises Inc Portland OR	503-644-8723
Vahlia Scientific Inc San Diego CA	619-457-5576
Viz Test Equip Div Viz Mfg Co	
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Bartlett Instrument Co Fort Madison IA	319-372-8366
Bitronics Inc Bethlehem PA	215-865-2444
B & K Precision Products Dynascan Corp	
Chicago IL	312-889-9087
Calibron Instruments Div Burton-Rogers Co	
Waltham MA	617-894-6440
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Dixson Inc Grand Junction CO	303-242-8863
E I L Instruments Inc Sparks MD	301-771-4800
Electrical Instrument Service Inc	
Mt Vernon NY	914-699-9717
Electronics Warehouse Inc Old Lyme CT	203-434-9838
Faria Corp Thos G Uncasville CT	203-848-9271
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Greibach Instruments Mt Vernon NY	914-699-9717
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Keithley Instruments Inc Cleveland OH	216-248-0400
Leasametric Inc Foster City CA	415-574-4441
Millivac Instruments Inc Schenectady NY	518-355-8300
Ohio Semiconductors Inc Columbus OH	614-486-9561
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Q V S Inc East Orange NJ	201-673-3996
Sargent-Welch Scientific Co Skokie IL	312-677-0600
Sensitive Research Instruments Mt Vernon NY	914-699-9717
Simpson Electric Co Elgin IL	312-697-2260
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
States Co Div Multi-Amp Corp Dallas TX	214-333-3201
Tetxet Instruments Inc Fairview Village PA	215-539-6050
Triplet Corp/A Penril Div Bluffton OH	419-358-5015
Universal Enterprises Inc Portland OR	503-644-8723
Viz Test Equip Div Viz Mfg Co	
Philadelphia PA	215-844-2626
Westberg Mfg Inc Sonoma CA	707-938-2121
Yokogawa Corp Of America Shenandoah GA	404-253-7000

AMMETERS, DC—MICROAMMETERS, DIGITAL (EXCEPT PANEL)

Ballantine Laboratories Inc Boonton NJ	201-335-0900
Calibron Instruments Div Burton-Rogers Co	
Waltham MA	617-894-6440
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
DigiTec Dayton OH	513-254-6251
Doric Scientific Div Emerson Elec Co	
San Diego CA	619-565-4415
E I L Instruments Inc Sparks MD	301-771-4800
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
Keithley Instruments Inc Cleveland OH	216-248-0400
North American Soar Corp Cherry Hill NJ	609-488-1060
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Simpson Electric Co Elgin IL	312-697-2260
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
Universal Enterprises Inc Portland OR	503-644-8723
Vahlia Scientific Inc San Diego CA	619-457-5576

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SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY	914-699-9717
Amprobe Instrument Div Core Indus Inc	
Lynbrook NY	516-593-5600
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Bartlett Instrument Co Fort Madison IA	319-372-8366
Calibron Instruments Div Burton-Rogers Co	
Waltham MA	617-894-6440
Caltemp Instrument Inc Escondido CA	714-743-2800
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
E I L Instruments Inc Sparks MD	301-771-4800
Electrical Instrument Service Inc	
Mt Vernon NY	914-699-9717
Greibach Instruments Mt Vernon NY	914-699-9717
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Keithley Instruments Inc Cleveland OH	216-248-0400
Larson Instrument Co Inc Orangeburg NY	914-359-3800
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Q V S Inc East Orange NJ	201-673-3996
Sargent-Welch Scientific Co Skokie IL	312-677-0600
Sensitive Research Instruments Mt Vernon NY	914-699-9717
Simpson Electric Co Elgin IL	312-697-2260
Solomat Corp Stamford CT	203-348-9700
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
Tetxet Instruments Inc Fairview Village PA	215-539-6050
Triplet Corp/A Penril Div Bluffton OH	419-358-5015
Universal Enterprises Inc Portland OR	503-644-8723
Vahlia Scientific Inc San Diego CA	619-457-5576
Yokogawa Corp Of America Shenandoah GA	404-253-7000

AMMETERS—PANEL

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MODUTEC INC NORWALK CT	203-853-3636
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
A & D Electrical Instruments Glendale NY	718-275-6516
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Keithley Instruments Inc Cleveland OH	216-248-0400
Modutec Inc Norwalk CT	203-853-3636
NES Inc Carpentersville IL	312-426-5900
Pacific Instruments Inc Concord CA	415-827-9010
Phasotron Instrument & Elect Co Azusa CA	818-969-6801
Rutherford Research Co Rutherford NJ	201-933-2091
Shokai Far East Ltd Hartsdale NY	914-681-0700
Velonex Santa Clara CA	408-727-7370
Viz Test Equip Div Viz Mfg Co	
Philadelphia PA	215-844-2626

AMMETERS—RF (INCL. THERMOAMMETERS)

MODUTEC INC NORWALK CT	203-853-3636
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY	914-699-9717
Bartlett Instrument Co Fort Madison IA	319-372-8366
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Delta Electronics Inc Alexandria VA	703-354-3350
E I L Instruments Inc Sparks MD	301-771-4800
Electrical Instrument Service Inc	
Mt Vernon NY	914-699-9717
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Greibach Instruments Mt Vernon NY	914-699-9717
Hewlett-Packard Palo Alto CA	415-857-8000
Larson Instrument Co Inc Orangeburg NY	914-359-3800
Modutec Inc Norwalk CT	203-853-3636
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Q V S Inc East Orange NJ	201-673-3996
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Sensitive Research Instruments Mt Vernon NY	914-699-9717
Simpson Electric Co Elgin IL	312-697-2260
Triplet Corp/A Penril Div Bluffton OH	419-358-5015
Yokogawa Corp Of America Shenandoah GA	404-253-7000

AMMETERS—RMS

ELECTRO INDUSTRIES DIV EI ELCTNS INC	
WESTBURY NY	516-334-0870
MODUTEC INC NORWALK CT	203-853-3636
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY	914-699-9717
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Anasco Corp Wakefield MA	617-246-3300
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Biddle Instruments-Sensitex Blue Bell PA	215-646-9200
Dranetz Technologies Inc Edison NJ	201-287-3680
E I L Instruments Inc Sparks MD	301-771-4800
Electrical Instrument Service Inc	
Mt Vernon NY	914-699-9717
Electro Industries Div El Elctns Inc	
Westbury NY	516-334-0870
Epoch Enterprises Ltd Tucson AZ	602-887-1970
Greibach Instruments Mt Vernon NY	914-699-9717
Hewlett-Packard Palo Alto CA	415-857-8000
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
Jewell Electrical Instruments Inc	
Manchester NH	603-669-6400
Keithley Instruments Inc Cleveland OH	216-248-0400
Larson Instrument Co Inc Orangeburg NY	914-359-3800
LFE Corp Instruments Div Clinton MA	617-835-1000
Modutec Inc Norwalk CT	203-853-3636
NES Inc Carpentersville IL	312-426-5900
North American Soar Corp Cherry Hill NJ	609-488-1060
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
PPM Inc Cleveland OH	216-248-6006
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Sensitive Research Instruments Mt Vernon NY	914-699-9717
Shokai Far East Ltd Hartsdale NY	914-681-0700
Simpson Electric Co Elgin IL	312-697-2260
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
Yokogawa Corp Of America Shenandoah GA	404-253-7000

AMPLIFIER CHOPPERS

See Choppers

AMPLIFIERS, A-F—COMMUNICATIONS TYPES (EXCEPT LINE REPEATERS)

CML MACARR DIV BROOKLYN NY	718-857-2400
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
INSTRUMENTS FOR INDUSTRY INC	
FARMINGDALE NY	516-694-1414
INSTRUMENTS INC SAN DIEGO CA	619-571-1111
ADV PG 11	
Air-A-Plane Corp Norfolk VA	804-622-5761
Alaun Engineering Montrose CA	818-957-0618

Alpha Industries Inc Woburn MA	617-935-5150
A-Systems Inc Charlottesville VA	804-295-7200
Aydin Radar & EW Div San Jose CA	408-629-1100
Betatronics Inc Lincolnwood IL	312-676-1747
Bogen Div Lear Siegler Inc Paramus NJ	201-343-5700
Broadcast Electronics Inc Quincy IL	217-224-9600
Circuit Technology Inc Farmingdale NY	516-293-8686
CML Macarr Div Brooklyn NY	718-857-2400
Communications Equipment Co Inc	
Glen Arbor MI	616-334-3081
Control Technology Co Inc	
Long Island City NY	718-361-2133
Dewey Electronics Corp Oakland NJ	201-337-4700
Eliantec Milpitas CA	408-945-1323
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Fanon Products Fanon Courier Corp	
Mission Hills CA	818-365-2531
Frequency & Time Systems Inc Beverly MA	617-927-8220
Glentek Inc El Segundo CA	213-322-3026
Grim Corp Medford NJ	609-267-7950
Hughes Aircraft Co Microwave Prods Div	
Torrance CA	213-517-6400
Instruments for Industry Inc Farmingdale NY	516-694-1414
Instruments Inc San Diego CA	619-571-1111
IT Electronics Inc Fairfield NJ	201-882-6405
Kahn Communications Inc Westbury NY	516-222-2221
Lake Systems Corp Newton MA	617-244-6881
LaPointe Industries Inc Rockville CT	203-872-8581
Lear Siegler Inc Santa Monica CA	213-452-5444
Magnum Opus Custom Electronic Engrg	
Iselin NJ	201-283-4925
Mobil Electronics Inc Anderson IN	317-642-7976
Modular Devices Inc Bohemia NY	516-567-9620
Oklahoma Aerotonics Inc Hartshorne OK	918-297-2566
Opamp Labs Inc Los Angeles CA	213-934-3566
Pacific Electro Dynamics Inc Redmond WA	206-881-1700
Perry Amplifier Brookline MA	617-734-0844
Plessey Semiconductors Irvine CA	714-951-5212
Protech Audio Corp St James NY	516-584-5855
Rauland-Borg Corp Chicago IL	312-267-1300
Remler Co Brisbane CA	415-468-3435
Safetran Sys Corp Electronic Div	
Cucamonga CA	714-987-4673
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Techtron Elkhart IN	219-294-8300
Telectro Systems Corp Corona NY	212-651-8900
T M Systems Inc Bridgeport CT	203-366-4571
TTC/Television Technology Corp	
Broomfield CO	303-465-4141
Venator Systems Inc San Jose CA	408-262-7788

AMPLIFIERS, A-F—ENTERTAINMENT (INCL. HI-FI)

Akai America Ltd Compton CA	213-537-3880
Acetec Raymer North Hollywood CA	213-875-0423
Control Electronics Co Inc Farmingdale NY	516-694-0125
ECCO Incorporated Santa Ana CA	714-835-6000
Eliantec Milpitas CA	408-945-1323
Emerson Radio Corp North Bergen NJ	201-854-4800
Epitex Electronics Inc Ogdensburg NY	613-592-2240
Ercona Corp Port Jefferson Sta NY	516-331-5500
Heath Co Benton Harbor MI	616-982-3200
Lake Systems Corp Newton MA	617-244-6881
Nutone Div Scovill Mfg Co Cincinnati OH	513-527-5100
Opamp Labs Inc Los Angeles CA	213-934-3566
Paraplegics Mfg Co Inc Bensenville IL	312-625-7740
Perma Power Electronics Inc Chicago IL	312-647-9414
Philmore Mfg Co Inc Inwood NY	516-239-6161
Plessey Semiconductors Irvine CA	714-951-5212
Precision Electronics Inc Franklin Park IL	312-678-3222
Projectapix II New York NY	212-765-7869
Rauland-Borg Corp Chicago IL	312-267-1300
Remler Co Brisbane CA	415-468-3435
RTS Systems Inc Burbank CA	818-840-7119
Shure Brothers Inc Evanston IL	312-866-2200
Tape-Athon Corp Inglewood CA	213-676-6752
Techtron Elkhart IN	219-294-8300
Telectro Systems Corp Corona NY	212-651-8900

AMPLIFIERS, A-F—LABORATORY INSTRUMENT TYPES

ABACUS CONTROLS INC SOMERVILLE NJ	201-526-6010
A P CIRCUIT CORP NEW YORK NY	212-737-1348
CML MACARR DIV BROOKLYN NY	718-857-2400
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ELGAR CORP AN ONAN OPERATING UNIT	
SAN DIEGO CA	619-450-0085
INSTRUMENTS FOR INDUSTRY INC	
FARMINGDALE NY	516-694-1414
INSTRUMENTS INC SAN DIEGO CA	619-571-1111
ADV PG 11	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
PRESTON SCIENTIFIC INC ANAHEIM CA	714-776-6400
Abacus Controls Inc Somerville NJ	201-526-6010
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
A P Circuit Corp New York NY	212-737-1348
Apex Microtechnology Corp Tucson AZ	602-742-8600
Automatic Test Systems Malden MA	617-322-1107
Bay Labs Div Tegam Inc Madison OH	216-428-7505
Behlman Engineering Carpinteria CA	805-684-8311
Betatronics Inc Lincolnwood IL	312-676-1747
Bruel & Kjaer Instruments Inc Marlboro MA	617-481-7000
Buckminster Corp Cambridge MA	617-864-2456
C-COR Electronics Inc State College PA	814-238-2461
CML Macarr Div Brooklyn NY	718-857-2400
Communitronics Ltd Bohemia NY	516-567-8320

Control Technology Co Inc	
Long Island City NY	718-361-2133
Dewey Electronics Corp Oakland NJ	201-337-4700
Dymec Winchester MA	617-729-7870
Dynamics Electronic Products Inc	
Chatsworth CA	818-998-0121
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Ectron Corp San Diego CA	619-278-0600
EG & G Ortec Oak Ridge TN	615-482-4411
Eliantec Milpitas CA	408-945-1323
Electro-Optical Industries Inc	
Santa Barbara CA	805-964-6701
Elgar Corp an Onan Operating Unit	
San Diego CA	619-450-0085
Evans Electronics Berkeley CA	415-653-3083
Exact Electronics Div Dynatech Nevada Inc	
Carson City NV	800-648-7952
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Glentek Inc El Segundo CA	213-322-3026
Gould Inc Recording Systems Div	
Cleveland OH	216-361-3315
Helionetics Inc Delta Elctn Control Div	
Irvine CA	714-546-4731
Hewlett-Packard Palo Alto CA	415-857-8000
Industrial Test Equipment Powertron	
Port Washington NY	516-883-1700
Instruments for Industry Inc Farmingdale NY	516-694-1414
Instruments Inc San Diego CA	619-571-1111
Itasca Inc Itasca NY	607-272-7640
Julie Research Labs Inc New York NY	212-245-2727
Krohn-Hite Corp Avon MA	617-580-1660
LaPointe Industries Inc Rockville CT	203-872-8581
Leasametric Inc Foster City CA	415-574-4441
Micro Networks Co Worcester MA	617-852-5400
Millivac Instruments Inc Schenectady NY	518-355-8300
Natel Engineering Co Inc Simi Valley CA	805-581-3950
Omega Engineering Inc Stamford CT	203-359-1660
Opamp Labs Inc Los Angeles CA	213-934-3566
Pace Transducer Co Div Cj Instr Inc	
Tarzana CA	818-996-4131
Pacific Instruments Inc Concord CA	415-827-9010
Pacific Power Source Corp	
Huntington Beach CA	714-898-2691
Perry Amplifier Brookline MA	617-734-0844
Precision Filters Inc Itasca NY	607-272-7640
Preston Scientific Inc Anaheim CA	714-776-6400
RF Power Labs Inc Bothell WA	206-481-8833
RTS Systems Inc Burbank CA	818-840-7119
Solar Electronics Co Hollywood CA	213-462-0806
Sundstrand Data Control Inc Redmond WA	206-885-3711
Systems Research Labs Inc Dayton OH	513-426-6000
Techtron Elkhart IN	219-294-8300
Telectro Systems Corp Corona NY	212-651-8900
T M Systems Inc Bridgeport CT	203-366-4571
Transistor Specialties Inc Danvers MA	617-774-8722
Tucker Electronics Co Garland TX	214-348-8800
Tustin Electronics Co Santa Ana CA	714-549-0391
Unholtz-Dickie Corp Wallingford CT	203-265-3929
White Technology Inc Phoenix AZ	602-437-1520
Wilson Co H M Houston TX	713-729-1183

AMPLIFIERS, A-F—POWER

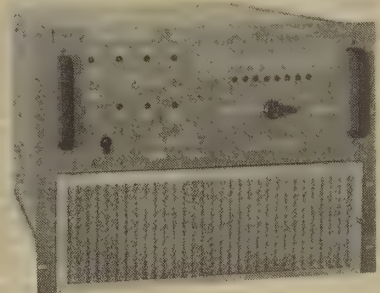
ABACUS CONTROLS INC SOMERVILLE NJ	201-526-6010
INSTRUMENTS INC SAN DIEGO CA	619-571-1111
ADV PG 11	
Abacus Controls Inc Somerville NJ	201-526-6010
Alpha-M Corp Eules TX	817-267-7022
Apex Microtechnology Corp Tucson AZ	602-742-8600
Applied Electric Mechanics Inc Alexandria VA	703-370-0510
Automatic Test Systems Malden MA	617-322-1107
Aydin Radar & EW Div San Jose CA	408-629-1100
Bogen Div Lear Siegler Inc Paramus NJ	201-343-5700
Bruel & Kjaer Instruments Inc Marlboro MA	617-481-7000
Buckminster Corp Cambridge MA	617-864-2456
California Instruments San Diego CA	619-279-8620
Cetec Raymer North Hollywood CA	213-875-0423
Control Electronics Co Inc Farmingdale NY	516-694-0125
Design Automation Inc Lexington MA	617-862-8998
Eliantec Milpitas CA	408-945-1323
Epitex Electronics Inc Ogdensburg NY	613-592-2240
Frazier Inc Dallas TX	214-241-3441
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Helionetics Inc Delta Elctn Control Div	
Irvine CA	714-546-4731
Instruments Inc San Diego CA	619-571-1111
Julie Research Labs Inc New York NY	212-245-2727
Krohn-Hite Corp Avon MA	617-580-1660
Lake Systems Corp Newton MA	617-244-6881
Leasametric Inc Foster City CA	415-574-4441
M/A-COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000
MCE Semiconductor Inc West Palm Beach FL	305-845-2837
Pacific Power Source Corp	
Huntington Beach CA	714-898-2691
Perma Power Electronics Inc Chicago IL	312-647-9414
Precision Electronics Inc Franklin Park IL	312-678-3222
Protech Audio Corp St James NY	516-584-5855
Solar Electronics Co Hollywood CA	213-462-0806
Speco Div Components Specialties Inc	
Lindenhurst NY	516-957-8700
Techtron Elkhart IN	219-294-8300
Tektrotron Inc Beaverton OR	800-547-6711
Wilson Co H M Houston TX	713-729-1183

AMPLIFIERS, A-F—STUDIO & THEATER (INCL. COMPRESSORS)

B F Electronics Solana Beach CA	619-755-1881
Bogen Div Lear Siegler Inc Paramus NJ	201-343-5700

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TRANSDUCER CALIBRATION FACILITIES
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INSTRUMENTS, INC.

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(619) 571-1111

Broadcast Electronics Inc Quincy IL	217-224-9600
Control Electronics Co Inc Farmingdale NY	516-694-0125
Frazier Inc Dallas TX	214-241-3441
Glentek Inc El Segundo CA	213-322-3026
Lake Systems Corp Newton MA	617-244-6881
Lear Siegler Inc Santa Monica CA	213-452-5444
Martel Electronics Inc Cleburne TX	817-645-9163
Modular Devices Inc Bohemia NY	516-567-9620
Opamp Labs Inc Los Angeles CA	213-934-3566
Paso Sound Products Inc Pelham NY	914-738-4800
Precision Electronics Inc Franklin Park IL	312-678-3222
Protech Audio Corp St James NY	516-584-5855
Rauland-Borg Corp Chicago IL	312-267-1300
Remler Co Brisbane CA	415-468-3435
RTS Systems Inc Burbank CA	818-840-7119
Shure Brothers Inc Evanston IL	312-866-2200
Techtron Elkhart IN	219-294-8300
Telectro Systems Corp Corona NY	212-651-8900
TTC/Television Technology Corp	
Broomfield CO	303-465-4141

AMPLIFIERS, ANALOG MODULE—LINEAR (INCL. BUFFERS, CHOPPERS, COMPARATORS, DIFFERENTIAL, FET, OPERATIONAL & OTHER BASIC TYPES EXCEPT IC DEVICES)

A P CIRCUIT CORP NEW YORK NY	212-737-1348
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ELGAR CORP AN ONAN OPERATING UNIT	
SAN DIEGO CA	619-450-0085
ILC DATA DEVICE CORP BOHEMIA NY	516-567-5600
TELEDYNE GEOTECH GARLAND TX	214-271-2561
Action Instruments Inc San Diego CA	619-279-5761
Alpha Industries Inc Woburn MA	617-935-5150
Altek Co Torrington CT	203-482-4700
Analog Devices Inc Norwood MA	617-329-4700
Analogic Corp Peabody MA	617-329-4700
Analog Modules Inc Longwood FL	305-339-4356
Analog Solutions Concord CA	415-685-6660
A P Circuit Corp New York NY	212-737-1348
Bay Labs Div Tegam Inc Madison OH	216-428-7505
B & F Instruments Div FX Sys Corp	
Kingston NY	914-338-0515
Burns Inc Resistive Components Group	
Riverside CA	714-781-5050
Burr-Brown Corp Tucson AZ	602-746-1111
Calex Mfg Co Inc Pleasant Hill CA	415-932-3911
Canberra Industries Inc Meriden CT	203-238-2351

C-COR Electronics Inc State College PA	814-238-2461
Columbia Research Labs Inc Woodlyn PA	215-872-3900
Comlinear Corp Fort Collins CO	303-226-0500
Control Technology Co Inc	
Long Island City NY	718-361-2133
Copley Controls Corp Newtown MA	617-965-2410
Datel Div General Electric Co Mansfield MA	617-339-9341
Daytronic Corp Miamisburg OH	513-866-3300
Dymec Winchester MA	617-729-7870
Dynamics Electronic Products Inc	
Chatsworth CA	818-998-0121
EG & G Ortec Oak Ridge TN	615-482-4411
EG & G Torque Systems Watertown MA	617-924-6000
Elgar Corp an Onan Operating Unit	
San Diego CA	619-450-0085
Glenetek Inc El Segundo CA	213-322-3026
Gould Inc Recording Systems Div	
Cleveland OH	216-361-3315
GSE Inc Farmington Hills MI	313-476-7875
Hades Mfg Corp Farmingdale NY	516-249-4244
Hewlett-Packard Palo Alto CA	415-857-8000
Himmelsstein & Co S Hoffman Estates IL	312-843-3300
Hybrid Systems Corp Billerica MA	617-667-8700
ILC Data Device Corp Bohemia NY	516-567-5600
Intech Inc Santa Clara CA	408-727-0500
Ithaco Inc Ithaca NY	607-272-7640
LeCroy Corp Spring Valley NY	914-425-2000
Linear Technology Inc Burlington ON	416-632-2996
M/A-COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000
Malwin Electronics Corp Paterson NJ	201-881-1500
Marel Instrument Co Cape Coral FL	813-574-8788
MCE Semiconductor Inc West Palm Beach FL	305-845-2837
Micro Networks Co Worcester MA	617-852-5400
Modular Devices Inc Bohemia NY	516-567-9620
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
MVP Electronics Orange CA	714-639-9246
NEC Electronics Inc Mtn View CA	415-960-6000
Neff Instrument Corp Monrovia CA	818-357-2281
Opamp Labs Inc Los Angeles CA	213-934-3566
Optical Electronics Inc Tucson AZ	602-624-8358
Parko Electronics Co Inc Irvine CA	714-660-8014
Perry Amplifier Brookline MA	617-734-0844
Protech Audio Corp St James NY	516-584-5855
Siliconix Inc Santa Clara CA	408-988-8000
Singer Co Kearfott Div Little Falls NJ	201-785-6000
Systems Research Labs Inc Dayton OH	513-426-6000
Tektronix Inc Beaverton OR	800-547-6711
Teletro Systems Corp Corona NY	212-651-8900
Teledyne Geotech Garland TX	214-271-2561
Teledyne Microelectronics Los Angeles CA	213-870-9831
Teledyne Philbrick Dedham MA	617-329-1600
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
Transistor Specialties Inc Danvers MA	617-774-8722
Transmagetics Inc Farmingdale NY	516-293-3100
Tustin Electronics Co Santa Ana CA	714-549-0391
United Detector Technology Hawthorne CA	213-978-0516
Validyne Engineering Corp Northridge CA	818-886-2057
West Coast Research Corp Los Angeles CA	213-478-8833
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS, ANALOG

MODULE—NONLINEAR (INCL.
DIVIDER, LOG & MULTIPLIER)

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
Acromag Inc Wixom MI	313-624-1541
Action Instruments Inc San Diego CA	619-279-5726
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Analog Devices Inc Norwood MA	617-329-4700
Analog Modules Inc Longwood FL	305-339-4356
Analog Solutions Concord CA	415-686-6660
Burr-Brown Corp Tucson AZ	602-746-1111
Circuit Technology Inc Farmingdale NY	516-293-8686
Control Technology Co Inc	
Long Island City NY	718-361-2133
Daytronic Corp Miamisburg OH	513-866-3300
General Magnetics Inc Bloomfield NJ	201-743-2700
Glenetek Inc El Segundo CA	213-322-3026
Gould Inc Recording Systems Div	
Cleveland OH	216-361-3315
Intech Inc Microcircuits Div Santa Clara CA	408-988-4930
Intronics Inc Newton MA	617-964-4000
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000
Marel Instrument Co Cape Coral FL	813-574-8788
MVP Electronics Orange CA	714-639-9246
Optical Electronics Inc Tucson AZ	602-624-8358
Perry Amplifier Brookline MA	617-734-0844
Real Time Systems Inc Mt Vernon NY	914-667-0425
Systems Research Labs Inc Dayton OH	513-426-6000
Teledyne Microelectronics Los Angeles CA	213-870-9831
Teledyne Philbrick Dedham MA	617-329-1600
Transmagetics Inc Farmingdale NY	516-293-3100
TRW Microwave Sunnyvale CA	408-732-0880
Validyne Engineering Corp Northridge CA	818-886-2057
Yokogawa Corp Of America Shenandoah GA	404-253-7000

AMPLIFIERS, ANALOG

MODULE—SAMPLE & HOLD,
MULTICHANNEL (EXCEPT IC
DEVICES)

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ILC DATA DEVICE CORP BOHEMIA NY	516-567-5600
PRESTON SCIENTIFIC INC ANAHEIM CA	714-776-6400

Acromag Inc Wixom MI	313-624-1541
Action Instruments Inc San Diego CA	619-279-5726
Analog Devices Inc Norwood MA	617-329-4700
Analogic Corp Peabody MA	617-532-5660
Analog Modules Inc Longwood FL	305-339-4356
Analog Solutions Concord CA	415-686-6660
B & F Instruments Div FX Sys Corp	
Kingston NY	914-338-0515
Burr-Brown Corp Tucson AZ	602-746-1111
Control Technology Co Inc	
Long Island City NY	718-361-2133
Data Translation Inc Marlboro MA	617-481-3700
Dymec Winchester MA	617-729-7870
Glenetek Inc El Segundo CA	213-322-3026
Himmelsstein & Co S Hoffman Estates IL	312-843-3300
Hybrid Systems Corp Billerica MA	617-667-8700
ILC Data Device Corp Bohemia NY	516-567-5600
Intech Inc Microcircuits Div Santa Clara CA	408-988-4930
LeCroy Corp Spring Valley NY	914-425-2000
Micro Networks Co Worcester MA	617-852-5400
Optical Electronics Inc Tucson AZ	602-624-8358
Perry Amplifier Brookline MA	617-734-0844
Phoenix Data Inc Phoenix AZ	602-278-6528
Preston Scientific Inc Anaheim CA	714-776-6400
Rochester Instrument Systems Inc	
Rochester NY	716-263-7700
Rutherford Research Co Rutherford NJ	201-933-2091
Soliton Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Tektron Micro Electronics Inc	
Linthicum Hts MD	301-850-4200
Teledyne Microelectronics Los Angeles CA	213-870-9831
Teledyne Philbrick Dedham MA	617-329-1600
Transistor Specialties Inc Danvers MA	617-774-8722
Transmagetics Inc Farmingdale NY	516-293-3100
Tustin Electronics Co Santa Ana CA	714-549-0391
West Coast Research Corp Los Angeles CA	213-478-8833
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS, ANALOG
MODULE—SWITCHING,
MULTICHANNEL (EXCEPT IC
DEVICES)

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
Action Instruments Inc San Diego CA	619-279-5726
B & F Instruments Div FX Sys Corp	
Kingston NY	914-338-0515
Burr-Brown Corp Tucson AZ	602-746-1111
Control Technology Co Inc	
Long Island City NY	718-361-2133
Copley Controls Corp Newtown MA	617-965-2410
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dynair Electronics Inc San Diego CA	619-263-7711
Emulex Corp Costa Mesa CA	714-662-5600
Glenetek Inc El Segundo CA	213-322-3026
Industrial Drives, Kollmorgen Radford VA	703-639-2495
Intech Inc Microcircuits Div Santa Clara CA	408-988-4930
M/A-COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000
MCE Semiconductor Inc West Palm Beach FL	305-845-2837
Modular Devices Inc Bohemia NY	516-567-9620
MVP Electronics Orange CA	714-639-9246
Phoenix Data Inc Phoenix AZ	602-278-8528
Protech Audio Corp St James NY	516-584-5855
Rochester Instrument Systems Inc	
Rochester NY	716-263-7700
Serial Lab Products Inc Marlboro MA	617-481-1684
Soliton Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Tektronix Inc Beaverton OR	800-547-6711
Teletro Systems Corp Corona NY	212-651-8900
Teledyne Microelectronics Los Angeles CA	213-870-9831
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS, ANALOG MODULE—VIDEO
& PULSE DRIVERS

Analog Modules Inc Longwood FL	305-339-4356
Analog Solutions Concord CA	415-686-6660
Avtech Electronicsystems Ltd Ottawa ON	613-226-5772
Betatronics Inc Lincolnwood IL	312-676-1747
Circuit Technology Inc State College PA	814-238-2461
Comlinear Corp Farmingdale NY	516-293-8686
Comlinear Corp Fort Collins CO	303-226-0500
Copley Controls Corp Newtown MA	617-965-2410
Dynair Electronics Inc San Diego CA	619-263-7711
EG & G Ortec Oak Ridge TN	615-482-4411
Evans Electronics Berkeley CA	415-653-3083
Glenetek Inc El Segundo CA	213-322-3026
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Lorch Electronics Corp Englewood NJ	201-569-8282
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
MVP Electronics Orange CA	714-639-9246
Oklahoma Aerotronics Inc Hawthorne OK	918-297-2566
Optical Electronics Inc Tucson AZ	602-624-8358
Perry Amplifier Brookline MA	617-734-0844
Plessey Semiconductors Irvine CA	714-951-5212
Pulse Instruments Co Torrance CA	213-515-5330
Soliton Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Systems Research Labs Inc Dayton OH	513-426-6000
Tektronix Inc Beaverton OR	800-547-6711
Teledyne Microelectronics Los Angeles CA	213-870-9831
Teledyne Philbrick Dedham MA	617-329-1600
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
TRW Microwave Sunnyvale CA	408-732-0880
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS—DIGITAL DRIVERS
(EXCEPT IC DEVICES OR
OPERATIONAL)

Advanced Control Systems Corp	
Randolph MA	617-963-4543
Copley Controls Corp Newtown MA	617-965-2410
Cronics Inc Lebanon NH	603-448-6300
De-Tec-Tronic Corp Elgin IL	312-695-9150
Icon Corp Cambridge MA	617-868-5400
MCE Semiconductor Inc West Palm Beach FL	305-845-2837
Plessey Semiconductors Irvine CA	714-951-5212
Soliton Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Systems Research Labs Inc Dayton OH	513-426-6000
Tau-Tron Inc Westford MA	617-692-5100
Teledyne Microelectronics Los Angeles CA	213-870-9831
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
Transistor Specialties Inc Danvers MA	617-774-8722
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS—DIRECT-COUPLED
COMMUNICATIONS TYPES (INCL.
CHOPPERS-STABILIZED CARRIER)

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
PRESTON SCIENTIFIC INC ANAHEIM CA	714-776-6400
Comlinear Corp Fort Collins CO	303-226-0500
Control Technology Co Inc	
Long Island City NY	718-361-2133
Control Technology Div AirBorn Elect Corp	
Garland TX	214-272-5544
Copley Controls Corp Newtown MA	617-965-2410
Ectron Corp San Diego CA	619-278-0600
Glenetek Inc El Segundo CA	213-322-3026
Intech Inc Santa Clara CA	408-727-0500
M/A-COM OSW Inc Tempe AZ	602-966-1471
Modular Devices Inc Bohemia NY	516-567-9620
MVP Electronics Orange CA	714-639-9246
Pacific Instruments Inc Concord CA	415-827-9010
Plessey Semiconductors Irvine CA	714-951-5212
Preston Scientific Inc Anaheim CA	714-776-6400
Protech Audio Corp St James NY	516-584-5855
Siliconix Inc Santa Clara CA	408-988-8000
Soliton Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Techtron Elkhart IN	219-294-8300
Teledyne Microelectronics Los Angeles CA	213-870-9831
T M Systems Inc Bridgeport CT	203-366-4571
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS—DC, GENERAL PURPOSE
(EXCEPT IC DEVICES OR MODULES)

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
DEL ELECTRONICS CORP	
MT VERNON NY	914-699-2000
PRESTON SCIENTIFIC INC ANAHEIM CA	714-776-6400
Acromag Inc Wixom MI	313-624-1541
Action Instruments Inc San Diego CA	619-279-5726
Alpha Industries Inc Woburn MA	617-935-5150
Analog Devices Inc Norwood MA	617-329-4700
Bay Labs Div Tegam Inc Madison OH	216-428-7505
Benton Corp Warrendale PA	412-776-5577
Buckminster Corp Cambridge MA	617-864-2456
Burr-Brown Corp Tucson AZ	602-746-1111
C-COR Electronics Inc State College PA	814-238-2461
CELCO (Constantine Engineering Labs Co)	
Mahwah NJ	201-327-1123
Comlinear Corp Fort Collins CO	303-226-0500
Control Technology Co Inc	
Long Island City NY	718-361-2133
Copley Controls Corp Newtown MA	617-965-2410
Datel Div General Electric Co Mansfield MA	617-339-9341
Del Electronics Corp Mt Vernon NY	914-699-2000
Dexter Research Center Inc Dexter MI	313-426-3921
Dynamics Electronic Products Inc	
Chatsworth CA	818-998-0121
Ectron Corp San Diego CA	619-278-0600
Eltant Milpitas CA	408-945-1323
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Glenetek Inc El Segundo CA	213-322-3026
Gould Inc Recording Systems Div	
Cleveland OH	216-361-3315
Hades Mfg Corp Farmingdale NY	516-249-4244
Honeywell Test Instruments Div Denver CO	303-773-4700
Industrial Control Co Rockledge FL	305-259-7105
Intech Inc Santa Clara CA	408-727-0500
Krohn-Hite Corp Avon MA	617-580-1660
LaPointe Industries Inc Rockville CT	203-872-8581
Larson Instrument Co Inc Orangeburg NY	914-359-3800
Lebow Products/Eaton Corp Troy MI	313-643-0220
Marel Instrument Co Cape Coral FL	813-574-8788
MFE Instruments Corp Salem NH	603-893-1921
Modular Devices Inc Bohemia NY	516-567-9620
MVP Electronics Orange CA	714-639-9246
Opamp Labs Inc Los Angeles CA	213-934-3566
Optical Electronics Inc Tucson AZ	602-624-8358
Pacific Instruments Inc Concord CA	415-827-9010
Perry Amplifier Brookline MA	617-734-0844
Plessey Semiconductors Irvine CA	714-951-5212
Precision Filters Inc Ithaca NY	607-277-3550
Preston Scientific Inc Anaheim CA	714-776-6400
Robicon Corp Pittsburgh PA	412-327-7000
Rochester Instrument Systems Inc	
Rochester NY	716-263-7700

Scientific Columbus Unit Esterline Corp	
Columbus OH	614-274-7160
Solltron Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Solltec Corp Sun Valley CA	818-767-0044
Techtron Elkhart IN	219-294-8300
Tektronix Inc Beaverton OR	800-547-6711
Teledyne Microelectronics Los Angeles CA	213-870-9831
Transmagetics Inc Farmingdale NY	516-293-3100
Tustin Electronics Co Santa Ana CA	714-549-0391
Waugh Controls Corp Chatsworth CA	818-998-8281
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS—DC, LABORATORY INSTRUMENTS

A P CIRCUIT CORP NEW YORK NY	212-737-1348
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
DEL ELECTRONICS CORP	
MT VERNON NY	914-699-2000
KEPCO INC FLUSHING NY	718-461-7000
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
PRESTON Scientific INC ANAHEIM CA	714-776-6400
Acromag Inc Wixom MI	313-624-1541
A P Circuit Corp New York NY	212-737-1348
Bascom-Turner Instruments Norwood MA	800-225-3298
Bay Labs Div Tegam Inc Madison OH	216-428-7505
Benton Corp Warrendale PA	412-776-5577
Betatronics Inc Lincolnwood IL	312-676-1747
B & F Instruments Div FX Sys Corp	
Kingston NY	914-338-0515
Buckminster Corp Cambridge MA	617-864-2456
Comlinear Corp Fort Collins CO	303-226-0500
Control Technology Co Inc	
Long Island City NY	718-361-2133
Copley Controls Corp Newtown MA	617-965-2410
Del Electronics Corp Mt Vernon NY	914-699-2000
Design Automation Inc Lexington MA	617-862-8998
Dynamics Electronic Products Inc	
Chatsworth CA	818-998-0121
Ectron Corp San Diego CA	619-278-0600
EG & G Almond Instruments Covina CA	818-967-9521
EG & G Ortec Oak Ridge TN	615-482-4411
Eltantec Milpitas CA	408-945-1323
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Gould Inc Recording Systems Div	
Cleveland OH	216-361-3315
Guidline Instruments Inc Orlando FL	305-423-8215
Hades Mfg Corp Farmingdale NY	516-249-4244
Himmelstein & Co S Hoffman Estates IL	312-843-3300
Honeywell Test Instruments Div Denver CO	303-773-4700
Industrial Control Co Rockledge FL	305-259-7105
Intech Inc Santa Clara CA	408-727-0500
Kepeco Inc Flushing NY	718-461-7000
Laboratory Products Inc Hyde Park MA	617-364-6260
Leasametric Inc Foster City CA	415-574-4441
Lebow Products/Eaton Corp Troy MI	313-433-0220
LeCroy Corp Spring Valley NY	914-625-2000
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Marel Instrument Co Cape Coral FL	813-574-8788
Megatran Electronic Power Bordentown NJ	609-298-7300
MFE Instruments Corp Salem NH	603-893-1921
MVP Electronics Orange CA	714-639-9246
Natel Engineering Co Inc Simi Valley CA	805-581-3950
NWL Transformers Bordentown NJ	609-298-7300
Omega Engineering Inc Stamford CT	203-359-1660
Optical Electronics Inc Tucson AZ	602-624-8358
Pacific Instruments Inc Concord CA	415-827-9010
Paine Instruments Inc Seattle WA	800-426-0366
Perry Amplifier Brookline MA	617-734-0844
PPM Inc Cleveland OH	216-292-6006
Precision Filters Inc Ithaca NY	607-277-3550
Preston Scientific Inc Anaheim CA	714-776-6400
Rotek Instrument Corp Waltham MA	617-899-4611
Stoeltig Co Chicago IL	312-522-4500
Techtron Elkhart IN	219-294-8300
Tektronix Inc Beaverton OR	800-547-6711
Transistor Specialties Inc Danvers MA	617-774-8722
Transmagetics Inc Farmingdale NY	516-293-3100
Tustin Electronics Co Santa Ana CA	714-549-0391
Waugh Controls Corp Chatsworth CA	818-998-8281
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS—DISTRIBUTION, DATA COMMUNICATIONS

ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
M/A-COM MICROWAVE POWER DEVICES INC	
HAUPPAUGE NY	516-231-1400
ADV PG 19	
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Applied Research Inc Plainview NY	516-349-9200
Austron Inc Austin TX	512-251-2313
Betatronics Inc Lincolnwood IL	312-676-1747
Broadcast Electronics Inc Quincy IL	217-224-9600
C-COR Electronics Inc State College PA	814-238-2461
Comlinear Corp Fort Collins CO	303-226-0500
Control Technology Div AirBorn Elect Corp	
Garland TX	214-272-5544
Datachron Inc Anaheim CA	714-761-2211
Data-Sud/Systems US Inc Tempe AZ	602-438-1492
Datum Inc Timing/AACOM Divs Anaheim CA	714-533-6333
Dynair Electronics Inc San Diego CA	619-263-7711
Eltantec Milpitas CA	408-945-1323
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Emulex Corp Costa Mesa CA	714-662-5600

M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
MITEQ Inc Hauppauge NY	516-543-8873
MVP Electronics Orange CA	714-639-9246
National Semiconductor Corp Santa Clara CA	408-721-5000
Opamp Labs Inc Los Angeles CA	213-934-3566
Plessey Semiconductors Irvine CA	714-951-5212
RTS Systems Inc Burbank CA	818-840-7119
Spectracom Corp East Rochester NY	716-381-4827
Teledyne Microelectronics Los Angeles CA	213-870-9831
Tele Measurements Inc Clifton NJ	201-473-8822
T M Systems Inc Bridgeport CT	203-366-4571
Trak Microwave Corp Tampa FL	813-884-1411
Tron-Tech Inc Neptune NJ	201-229-4348
Versitron Div Keene Corp Washington DC	202-722-8600
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS—DISTRIBUTION, TV

ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
Akal America Ltd Compton CA	213-537-3880
Amplifier Research Corp Souderton PA	215-723-8181
Applied Research Inc Plainview NY	516-349-9200
Blonder-Tongue Labs Inc Old Bridge NJ	201-679-4900
C-COR Electronics Inc State College PA	814-238-2461
Cohu Inc/Electronics Div San Diego CA	619-277-6700
Dynair Electronics Inc San Diego CA	619-263-7711
Eltantec Milpitas CA	408-945-1323
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Glentek Inc El Segundo CA	213-322-3026
LNR Communications Inc Hauppauge NY	516-273-7111
MVP Electronics Orange CA	714-639-9246
Recotron Corp Long Island City NY	718-392-6442
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Telectro Systems Corp Corona NY	212-651-8900
Teledyne Microelectronics Los Angeles CA	213-870-9831
Texscan Corp Phoenix AZ	602-252-5021
Tron-Tech Inc Neptune NJ	201-229-4348
TRW RF Devices Div Lawndale CA	213-536-0888
Vicon Industries Inc Melville NY	516-293-2200
Winegard Co Burlington IA	319-753-0121

AMPLIFIERS—DISTRIBUTION, VOICE COMMUNICATIONS

CML MACARR DIV BROOKLYN NY	718-857-2400
ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
Air-A-Plane Corp Norfolk VA	804-622-5761
A-Systems Inc Charlottesville VA	804-295-7200
Betatronics Inc Lincolnwood IL	312-676-1747
Broadcast Electronics Inc Quincy IL	217-224-9600
Cetec Raymer North Hollywood CA	213-875-0423
CML Macarr Div Brooklyn NY	718-857-2400
Control Technology Div AirBorn Elect Corp	
Garland TX	214-272-5544
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Fanon Products Fanon Courier Corp	
Mission Hills CA	818-365-2531
Gai-Tronics Corp Reading PA	215-777-1374
Harris Corp Dragon Div Camarillo CA	805-987-9511
LaPointe Industries Inc Rockville CT	203-872-8581
Lear Siegler Inc Santa Monica CA	213-452-5444
LNR Communications Inc Hauppauge NY	516-273-7111
Modular Devices Inc Bohemia NY	516-567-9620
Ocean Technology Inc Burbank CA	213-849-7111
Opamp Labs Inc Los Angeles CA	213-934-3566
Paso Sound Products Inc Pelham NY	914-738-4800
Protech Audio Corp St James NY	516-584-5855
Rauland-Borg Corp Chicago IL	312-267-1300
Remler Co Brisbane CA	415-468-3435
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
RTS Systems Inc Burbank CA	818-840-7119
Teledyne Microelectronics Los Angeles CA	213-870-9831
Telex Communications Inc Minneapolis MN	612-884-4051
T M Systems Inc Bridgeport CT	203-366-4571

AMPLIFIERS—GAAS FET

M/A-COM MICROWAVE POWER DEVICES INC	
HAUPPAUGE NY	516-231-1400
ADV PG 19	
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
Alpha Industries Inc Woburn MA	617-935-5150
Avantek Inc Santa Clara CA	408-496-6710
California Microwave Inc Sunnyvale CA	408-732-4000
Decibel Products Inc Dallas TX	214-631-0310
Epsco Inc Westwood MA	617-329-1500
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Harris Semiconductor Melbourne FL	305-724-7418
International Microwave Corp Stamford CT	203-323-5599
LNR Communications Inc Hauppauge NY	516-273-7111
Locus Inc State College PA	814-466-6275
M/A-COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000
M/A-COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
M/A-COM OSW Inc Tempe AZ	602-966-1471
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Optical Electronics Inc Tucson AZ	602-624-8358
Scientific Communications Inc Garland TX	214-840-4900
Solltron Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Teledyne Microelectronics Los Angeles CA	213-870-9831

Teledyne Microwave Mtn View CA	415-968-2211
Trak Microwave Corp Tampa FL	813-884-1411
Tron-Tech Inc Neptune NJ	201-229-4348
TRW Microwave Sunnyvale CA	408-732-0880
Watkins-Johnson Co Palo Alto CA	415-493-4141
Western Microwave Sunnyvale CA	408-734-1631

AMPLIFIERS—IC DEVICES

See ICs Listings

AMPLIFIERS, I-F—LINEAR (EXCEPT IC DEVICES)

CML MACARR DIV BROOKLYN NY	718-857-2400
ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
M/A-COM MICROWAVE POWER DEVICES INC	
HAUPPAUGE NY	516-231-1400
ADV PG 19	
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Alpha Industries Inc Woburn MA	617-935-5150
Applied Research Inc Plainview NY	516-349-9200
Avantek Inc Santa Clara CA	408-496-6710
B F Electronics Solana Beach CA	619-755-1881
CML Macarr Div Brooklyn NY	718-857-2400
Comdel Inc Beverly MA	617-927-3144
Comlinear Corp Fort Collins CO	303-226-0500
Design Automation Inc Lexington MA	617-862-8998
Eaton Corp AIL Div Deer Park NY	516-595-5000
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Gould Inc Recording Systems Div	
Cleveland OH	216-361-3315
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
International Microwave Corp Stamford CT	203-323-5599
LaPointe Industries Inc Rockville CT	203-872-8581
Locus Inc State College PA	814-466-6275
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
Microwave Control Div Micon Inc Brick NJ	201-458-3000
MITEQ Inc Hauppauge NY	516-543-8873
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
Mu-De Electronics Inc Silver Spring MD	301-587-6087
Optical Electronics Inc Tucson AZ	602-624-8358
Perry Amplifier Brookline MA	617-734-0844
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Solltron Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Tektron Micro Electronics Inc	
Linthicum Hts MD	301-850-4200
Teledyne Microelectronics Los Angeles CA	213-870-9831
Trak Microwave Corp Tampa FL	813-884-1411
Transistor Specialties Inc Danvers MA	617-774-8722
Tron-Tech Inc Neptune NJ	201-229-4348
TRW Microwave Sunnyvale CA	408-732-0880
TRW RF Devices Div Lawndale CA	213-536-0888
Varian Electron Device Group Palo Alto CA	415-493-4000
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS, I-F—NARROWBAND (EXCEPT IC DEVICES)

CML MACARR DIV BROOKLYN NY	718-857-2400
M/A-COM MICROWAVE POWER DEVICES INC	
HAUPPAUGE NY	516-231-1400
ADV PG 19	
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Alpha Industries Inc Woburn MA	617-935-5150
Applied Research Inc Plainview NY	516-349-9200
Avantek Inc Santa Clara CA	408-496-6710
B F Electronics Solana Beach CA	619-755-1881
CML Macarr Div Brooklyn NY	718-857-2400
Design Automation Inc Lexington MA	617-862-8998
Eaton Corp AIL Div Deer Park NY	516-595-5000
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
International Microwave Corp Stamford CT	203-323-5599
Laboratory Products Inc Hyde Park MA	617-364-6260
LaPointe Industries Inc Rockville CT	203-872-8581
Locus Inc State College PA	814-466-6275
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
M/A-COM Solid State Circuits Hudson NH	603-880-1911
MITEQ Inc Hauppauge NY	516-543-8873
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
Mu-De Electronics Inc Silver Spring MD	301-587-6087
Oklahoma Aerotronics Inc Hartshorne OK	918-297-2566
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Telectro Systems Corp Corona NY	212-651-8900
Teledyne Microelectronics Los Angeles CA	213-870-9831
Trak Microwave Corp Tampa FL	813-884-1411
Tron-Tech Inc Neptune NJ	201-229-4348
TRW Microwave Sunnyvale CA	408-732-0880
Varian Electron Device Group Palo Alto CA	415-493-4000
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS, I-F—WIDEBAND (EXCEPT IC DEVICES)

CML MACARR DIV BROOKLYN NY	718-857-2400
ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
M/A-COM MICROWAVE POWER DEVICES INC	
HAUPPAUGE NY	516-231-1400
ADV PG 19	
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Aiken Advanced Sys Div Amstar Tech Prods Inc	
Alexandria VA	703-370-0900
Alpha Industries Inc Woburn MA	617-935-5150
Amplifier Research Corp Souderton PA	215-723-8181
Analog Modules Inc Longwood FL	305-339-4356
Applied Research Inc Plainview NY	516-349-9200
Avantek Inc Santa Clara CA	408-496-6710
B F Electronics Solana Beach CA	619-755-1881
CML Macarr Div Brooklyn NY	718-857-2400
Comdel Inc Beverly MA	617-927-3144
Comlinear Corp Fort Collins CO	303-226-0500
Design Automation Inc Lexington MA	617-862-8998
Dymec Winchester MA	617-729-7870
Eaton Corp AIL Div Deer Park NY	516-595-5000
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
International Microwave Corp Stamford CT	203-323-5599
Laboratory Products Inc Hyde Park MA	617-364-6260
LaPointe Industries Inc Rockville CT	203-872-8581
Locus Inc State College PA	814-466-6275
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
M/A-COM Solid State Circuits Hudson NH	603-880-1911
Mini-Circuits Lab Brooklyn NY	718-934-4500
MITEQ Inc Hauppauge NY	516-543-8873
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
Oklahoma Aeronautics Inc Hartshorne OK	918-297-2566
Olektron Corp Webster MA	617-943-7440
Optical Electronics Inc Tucson AZ	602-624-8358
Perry Amplifier Brookline MA	617-734-0844
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Tektron Micro Electronics Inc	
Linthicum Hts MD	301-850-4200
Teledyne Microelectronics Los Angeles CA	213-870-9831
Trak Microwave Corp Tampa FL	813-884-1411
Tron-Tech Inc Neptune NJ	201-229-4348
TRW Microwave Sunnyvale CA	408-732-0880
TRW RF Devices Div Lawndale CA	213-536-0888
Varian Electron Device Group Palo Alto CA	415-493-4000
White Technology Inc Phoenix AZ	602-437-1520
Wide Band Engineering Co Inc Phoenix AZ	602-254-1570

AMPLIFIERS, INSTRUMENTATION & CONTROL—CHARGE SENSITIVE (EXCEPT MODULES)

CONTROL TECHNOLOGY CO INC	718-361-2133
LONG ISLAND CITY NY	
Amptek Inc Bedford MA	617-275-2242
Analog Devices Inc Norwood MA	617-329-4700
Bailey Controls Co Wickliffe OH	216-585-8500
Bascom-Turner Instruments Norwood MA	800-225-3298
Bay Labs Div Tegam Inc Madison OH	216-428-7505
Bruehl & Kjaer Instruments Inc Marlboro MA	617-481-7000
Burr-Brown Corp Tucson AZ	602-746-1111
Canberra Industries Inc Meriden CT	203-238-2351
Circuit Technology Inc Farmingdale NY	516-293-8686
Columbia Research Labs Inc Woodlyn PA	215-872-3900
Control Technology Co Inc	
Long Island City NY	718-361-2133
Datel Div General Electric Co Mansfield MA	617-339-9341
Design Automation Inc Lexington MA	617-862-8998
De-Tec-Tronic Corp Elgin IL	312-695-9150
EG & G Ortec Oak Ridge TN	615-482-4411
Eltantec Milpitas CA	408-945-1323
Endevco San Juan Capistrano CA	714-493-8181
Himmelstein & Co S Hoffman Estates IL	312-843-3300
IFD Technology Houston TX	713-488-0777
Industrial Control Co Rockledge FL	305-259-7105
Ithaco Inc Ithaca NY	607-272-7640
Keithley Instruments Inc Cleveland OH	216-248-0400
Kistler Instrument Corp Amherst NY	716-691-5100
Linear Electronics Inc Anaheim CA	714-779-1900
Meltrix Instrument Co Houston TX	713-461-2131
The Narda Microwave Corp Hauppauge NY	516-231-1700
Optical Electronics Inc Tucson AZ	602-624-8358
Pacific Instruments Inc Concord CA	415-827-9010
PCB Piezotronics Inc Depew NY	716-684-0001
Perry Amplifier Brookline MA	617-734-0844
Precision Filters Inc Ithaca NY	607-277-3550
Rochester Instrument Systems Inc	
Rochester NY	716-263-7700
Soliton Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Spectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA	619-268-7100
Uniholtz-Dickie Corp Wallingford CT	203-265-3929
Vibra-Metrics Inc Hamden CT	203-288-6158
Waugh Controls Corp Chatsworth CA	818-998-8281
White Technology Inc Phoenix AZ	602-437-1520
Wilcoxon Research Rockville MD	301-330-8811

AMPLIFIERS, INSTRUMENTATION & CONTROL—DECADE (EXCEPT MODULES)

CONTROL TECHNOLOGY CO INC	718-361-2133
LONG ISLAND CITY NY	
PRESTON SCIENTIFIC INC ANAHEIM CA	714-776-6400
Bailey Controls Co Wickliffe OH	216-585-8500
Ballantine Laboratories Inc Bonton NJ	201-335-0900
Bascom-Turner Instruments Norwood MA	800-225-3298
Bay Labs Div Tegam Inc Madison OH	216-428-7505
Betatronics Inc Lincolnwood IL	312-676-1747
Burr-Brown Corp Tucson AZ	602-746-1111
C-COR Electronics Inc State College PA	814-238-2461
Control Technology Co Inc	
Long Island City NY	718-361-2133
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dynamics Electronic Products Inc	
Chatsworth CA	818-998-0121
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Eltantec Milpitas CA	408-945-1323
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hades Mfg Corp Farmingdale NY	516-249-4244
Industrial Control Co Rockledge FL	305-259-7105
Ithaco Inc Ithaca NY	607-272-7640
Marel Instrument Co Cape Coral FL	813-574-8788
Micro Networks Co Worcester MA	617-852-5400
MVP Electronics Orange CA	714-639-9246
Natel Engineering Co Inc Simi Valley CA	805-581-3950
Pacific Instruments Inc Concord CA	415-827-9010
Plessey Semiconductors Irvine CA	714-951-5212
Precision Filters Inc Ithaca NY	607-277-3550
Preston Scientific Inc Anaheim CA	714-776-6400
Rochester Instrument Systems Inc	
Rochester NY	716-263-7700
Soliton Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Teledyne Microelectronics Los Angeles CA	213-870-9831
Tustin Electronics Co Santa Ana CA	714-549-0391
Waugh Controls Corp Chatsworth CA	818-998-8281
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS, INSTRUMENTATION & CONTROL—DIFFERENTIAL (EXCEPT MODULES & OPERATIONAL)

CONTROL TECHNOLOGY CO INC	718-361-2133
LONG ISLAND CITY NY	
ENTRAN DEVICES INC FAIRFIELD NJ	201-227-1002
HYTEK MICROSYSTEMS INC	
LOS GATOS CA	408-395-2300
PRESTON SCIENTIFIC INC ANAHEIM CA	714-776-6400
SCHAEVITZ ENGINEERING	
PENNSAUKEN NJ	609-662-8000
Acromag Inc Wixom MI	313-624-1541
Analog Devices Inc Norwood MA	617-329-4700
Bailey Controls Co Wickliffe OH	216-585-8500
Bascom-Turner Instruments Norwood MA	800-225-3298
Bay Labs Div Tegam Inc Madison OH	216-428-7505
Betatronics Inc Lincolnwood IL	312-676-1747
B & F Instruments Div FX Sys Corp	
Kingston NY	914-338-0515
Burr-Brown Corp Tucson AZ	602-746-1111
C-COR Electronics Inc State College PA	814-238-2461
Comlinear Corp Fort Collins CO	303-226-0500
Control Technology Co Inc	
Long Island City NY	718-361-2133
Data Translation Inc Marlboro MA	617-481-3700
Datel Div General Electric Co Mansfield MA	617-339-9341
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dynamics Electronic Products Inc	
Chatsworth CA	818-998-0121
Ectron Corp San Diego CA	619-278-0600
EG & G Ortec Oak Ridge TN	615-482-4411
Eltantec Milpitas CA	408-945-1323
Elexor Associates Morris Plains NJ	201-299-1615
Entran Devices Inc Fairfield NJ	201-227-1002
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Gould Inc Recording Systems Div	
Cleveland OH	216-361-3315
Hades Mfg Corp Farmingdale NY	516-249-4244
Himmelstein & Co S Hoffman Estates IL	312-843-3300
Honeywell Test Instruments Div Denver CO	303-733-4700
Hy-Cal Engineering El Monte CA	818-444-4000
Hytek Microsystems Inc Los Gatos CA	408-395-2300
Industrial Control Co Rockledge FL	305-259-7105
Ithaco Inc Ithaca NY	607-272-7640
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Marel Instrument Co Cape Coral FL	813-574-8788
Micro Networks Co Worcester MA	617-852-5400
MVP Electronics Orange CA	714-639-9246
Natel Engineering Co Inc Simi Valley CA	805-581-3950
National Semiconductor Corp Santa Clara CA	408-721-5000
Optical Electronics Inc Tucson AZ	602-624-8358
Pacific Instruments Inc Concord CA	415-827-9010
PFM Inc Cleveland OH	216-292-6006
Precision Filters Inc Ithaca NY	607-277-3550
Preston Scientific Inc Anaheim CA	714-776-6400
Rochester Instrument Systems Inc	
Rochester NY	716-263-7700
Ross Engineering Corp Campbell CA	408-377-4621
Schaevitz Engineering Pennsauken NJ	609-662-8000
Serial Lab Products Inc Marlboro MA	617-481-1684
Soliton Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Tektronix Inc Beaverton OR	800-547-6711
Teletex Systems Corp Corona NY	212-651-8900
Teledyne Microelectronics Los Angeles CA	213-870-9831
Tustin Electronics Co Santa Ana CA	714-549-0391
Uniholtz-Dickie Corp Wallingford CT	203-265-3929

Waugh Controls Corp Chatsworth CA	818-998-8281
West Coast Research Corp Los Angeles CA	213-478-8833
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS, INSTRUMENTATION & CONTROL—LINEAR (EXCEPT MODULES)

CML MACARR DIV BROOKLYN NY	718-857-2400
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
ELGAR CORP AN ONAN OPERATING UNIT	
SAN DIEGO CA	619-450-0085
INSTRUMENTS FOR INDUSTRY INC	
FARMINGDALE NY	516-694-1414
M/A-COM MICROWAVE POWER DEVICES INC	
HAUPPAUGE NY	516-231-1400
ADV PG 19	
PRESTON SCIENTIFIC INC ANAHEIM CA	714-776-6400
SCHAEVITZ ENGINEERING	
PENNSAUKEN NJ	609-662-8000
Action Instruments Inc San Diego CA	619-279-5726
Alpha Industries Inc Woburn MA	617-935-5150
Analog Devices Inc Norwood MA	617-329-4700
Apex Microtechnology Corp Tucson AZ	602-742-8600
Bailey Controls Co Wickliffe OH	216-585-8500
Bay Labs Div Tegam Inc Madison OH	216-428-7505
Benton Corp Warrendale PA	412-776-5577
Betatronics Inc Lincolnwood IL	312-676-1747
B & F Instruments Div FX Sys Corp	
Kingston NY	914-338-0515
Buckminster Corp Cambridge MA	617-864-2456
Burr-Brown Corp Tucson AZ	602-746-1111
California Instruments San Diego CA	619-279-8620
C-COR Electronics Inc State College PA	814-238-2461
CELCO (Constantine Engineering Labs Co)	
Mahwah NJ	201-327-1123
CML Macarr Div Brooklyn NY	718-857-2400
Comlinear Corp Fort Collins CO	303-226-0500
Control Technology Co Inc	
Long Island City NY	718-361-2133
Datatron Labs Inc Sussex NJ	914-856-4313
Datel Div General Electric Co Mansfield MA	617-339-9341
Design Automation Inc Lexington MA	617-862-8998
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dynamics Electronic Products Inc	
Chatsworth CA	818-998-0121
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Ectron Corp San Diego CA	619-278-0600
EG & G Ortec Oak Ridge TN	615-482-4411
Eltantec Milpitas CA	408-945-1323
Electro-Craft Corp Hopkins MN	612-931-2700
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Elgar Corp an Onan Operating Unit	
San Diego CA	619-450-0085
Glenet Inc El Segundo CA	213-322-3026
Gould Inc Recording Systems Div	
Cleveland OH	216-361-3315
Hades Mfg Corp Farmingdale NY	516-249-4244
Himmelstein & Co S Hoffman Estates IL	312-843-3300
Honeywell Signal Processing Technologies	
Colorado Springs CO	303-577-1000
IFD Technology Houston TX	713-488-0777
Industrial Control Co Rockledge FL	305-259-7105
Instruments for Industry Inc Farmingdale NY	516-694-1414
Intech Inc Santa Clara CA	408-727-0500
Ithaco Inc Ithaca NY	607-272-7640
Larson Instrument Co Inc Orangeburg NY	914-359-3800
Leas Siegler Inc Santa Monica CA	213-452-5444
LeCroy Corp Spring Valley NY	914-425-2000
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
Marel Instrument Co Cape Coral FL	813-574-8788
Micro Networks Co Worcester MA	617-852-5400
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
National Semiconductor Corp Santa Clara CA	408-721-5000
Optical Electronics Inc Tucson AZ	602-624-8358
Pacific Instruments Inc Concord CA	415-827-9010
Perry Amplifier Brookline MA	617-734-0844
Precision Filters Inc Ithaca NY	607-277-3550
Preston Scientific Inc Anaheim CA	714-776-6400
RF Power Labs Inc Bothell WA	206-481-8833
Robicon Corp Pittsburgh PA	412-327-7000
Rochester Instrument Systems Inc	
Rochester NY	716-263-7700
Ross Engineering Corp Campbell CA	408-377-4621
Schaevitz Engineering Pennsauken NJ	609-662-8000
Scientific Columbus Unit Esterline Corp	
Columbus OH	614-274-7160
Serial Lab Products Inc Marlboro MA	617-481-1684
Sprengnether Instruments Inc St Louis MO	314-535-1682
Techtron Elkhart IN	219-294-8300
Teledyne Microelectronics Los Angeles CA	213-870-9831
Tustin Electronics Co Santa Ana CA	714-549-0391
Uniholtz-Dickie Corp Wallingford CT	203-265-3929
Varian Electron Device Group Palo Alto CA	415-493-4000
Vibra-Metrics Inc Hamden CT	203-288-6158
Waugh Controls Corp Chatsworth CA	818-998-8281
West Coast Research Corp Los Angeles CA	213-478-8833
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS, INSTRUMENTATION & CONTROL—LOGARITHMIC (EXCEPT MODULES)

CONTROL TECHNOLOGY CO INC	718-361-2133
LONG ISLAND CITY NY	

Analog Devices Inc Norwood MA	617-329-4700
Analog Modules Inc Longwood FL	305-339-4356
Bailey Controls Co Wickliffe OH	216-585-8500
Ballantine Laboratories Inc Bonton NJ	201-335-0900
B F Electronics Solana Beach CA	619-755-1881
Burr-Brown Corp Tucson AZ	602-746-1111
Control Technology Co Inc	
Long Island City NY	718-361-2133
Design Automation Inc Lexington MA	617-862-8998
De-Tec-Tronic Corp Elgin IL	312-695-9150
EG & G Ortec Oak Ridge TN	615-482-4411
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Gould Inc Recording Systems Div	
Cleveland OH	216-361-3315
Industrial Control Co Rockledge FL	305-259-7105
Marel Instrument Co Cape Coral FL	813-574-8788
MVP Electronics Orange CA	714-639-9246
National Semiconductor Corp Santa Clara CA	408-721-5000
Optical Electronics Inc Tucson AZ	602-624-8358
Rochester Instrument Systems Inc	
Rochester NY	716-263-7700
Solliton Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Tektronix Inc Beaverton OR	800-547-6711
Telectro Systems Corp Corona NY	212-651-8900
Teledyne Microelectronics Los Angeles CA	213-870-9831
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
Varian Electronic Device Group Palo Alto CA	415-493-4000
Western Microwave Sunnyvale CA	408-734-1631
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS, INSTRUMENTATION & CONTROL—MODULES (SMALL PLUG-IN ANALOG AMPLIFIERS)

See Amplifiers, Analog Module

See Also ICs Listings

AMPLIFIERS, INSTRUMENTATION & CONTROL—NULL (EXCEPT MODULES)

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
SCHAEVITZ ENGINEERING	
PENNSAUKEN NJ	609-662-8000
Bailey Controls Co Wickliffe OH	216-585-8500
Burr-Brown Corp Tucson AZ	602-746-1111
Control Technology Co Inc	
Long Island City NY	718-361-2133
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dynamics Electronic Products Inc	
Chatsworth CA	818-998-0121
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Gientek Inc El Segundo CA	213-322-3026
Guideline Instruments Inc Orlando FL	305-423-8215
Hades Mfg Corp Farmingdale NY	516-249-4244
Industrial Control Co Rockledge FL	305-259-7105
Julie Research Labs Inc New York NY	212-245-2727
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Marel Instrument Co Cape Coral FL	813-574-8788
National Semiconductor Corp Santa Clara CA	408-721-5000
Omega Engineering Inc Stamford CT	203-359-1660
Rochester Instrument Systems Inc	
Rochester NY	716-263-7700
Schaevitz Engineering Pennsauken NJ	609-662-8000
Tektronix Inc Beaverton OR	800-547-6711
Teledyne Microelectronics Los Angeles CA	213-870-9831
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS, INSTRUMENTATION & CONTROL—OPERATIONAL (EXCEPT MODULES)

CML MACARR DIV BROOKLYN NY	718-857-2400
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
KEPCO INC FLUSHING NY	718-461-7000
PRESTON SCIENTIFIC INC ANAHEIM CA	714-776-6400
SCHAEVITZ ENGINEERING	
PENNSAUKEN NJ	609-662-8000
Analog Devices Inc Norwood MA	617-329-4700
Apex Microtechnology Corp Tucson AZ	602-742-8600
Bailey Controls Co Wickliffe OH	216-585-8500
Burr-Brown Corp Tucson AZ	602-746-1111
CML Macarr Div Brooklyn NY	718-857-2400
Comline Corp Fort Collins CO	303-226-0500
Control Technology Co Inc	
Long Island City NY	718-361-2133
Datel Div General Electric Co Mansfield MA	617-339-9341
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dynamics Electronic Products Inc	
Chatsworth CA	818-998-0121
Elatenc Milpitas CA	408-945-1323
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Gientek Inc El Segundo CA	213-322-3026
Hades Mfg Corp Farmingdale NY	516-249-4244
Industrial Control Co Rockledge FL	305-259-7105
Keppo Inc Flushing NY	718-461-7000
Marel Instrument Co Cape Coral FL	813-574-8788
Micro Networks Co Worcester MA	617-852-5400

Micro Power Systems Santa Clara CA	408-727-5350
Modular Devices Inc Bohemia NY	516-567-9620
National Semiconductor Corp Santa Clara CA	408-721-5000
Optical Electronics Inc Tucson AZ	602-624-8358
Preston Scientific Inc Anaheim CA	714-776-6400
Rochester Instrument Systems Inc	
Rochester NY	716-263-7700
Schaevitz Engineering Pennsauken NJ	609-662-8000
Singer Co Kearfoot Div Little Falls NJ	201-785-6000
Tektronix Inc Beaverton OR	800-547-6711
Teledyne Microelectronics Los Angeles CA	213-870-9831
Teledyne Philbrick Dedham MA	617-329-1600
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS, INSTRUMENTATION & CONTROL—PULSE & PULSE RECORDING (EXCEPT MODULES)

CML MACARR DIV BROOKLYN NY	718-857-2400
ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
INSTRUMENTS FOR INDUSTRY INC	
FARMINGDALE NY	516-694-1414
Acromag Inc Wixom MI	313-624-1541
Avtech Electrosystems Ltd Ottawa ON	613-226-5772
Bailey Controls Co Wickliffe OH	216-585-8500
Betatronics Inc Lincolnwood IL	312-676-1747
Canberra Industries Inc Meriden CT	203-238-2351
C-COR Electronics Inc State College PA	814-238-2461
CML Macarr Div Brooklyn NY	718-857-2400
Comline Corp Fort Collins CO	303-226-0500
Design Automation Inc Lexington MA	617-862-8998
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dynamics Electronic Products Inc	
Chatsworth CA	818-998-0121
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
EG & G Ortec Oak Ridge TN	615-482-4411
Elatenc Milpitas CA	408-945-1323
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Eon Instrumentation Inc Van Nuys CA	818-781-2185
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Gould Inc Recording Systems Div	
Cleveland OH	216-361-3315
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Instrument Research Co Santa Barbara CA	805-962-8336
Instruments for Industry Inc Farmingdale NY	516-694-1414
Intech Inc Santa Clara CA	408-727-0500
Kurz Instruments Inc Carmel Valley CA	408-659-3421
LeCroy Corp Spring Valley NY	914-425-2000
Maxwell Labs Inc San Diego CA	619-279-5100
Motion Science Inc San Jose CA	408-287-0300
MVP Electronics Orange CA	714-639-9246
National Semiconductor Corp Santa Clara CA	408-721-5000
Optical Electronics Inc Tucson AZ	602-624-8358
RIL Electronics Inc Warrington PA	215-343-5075
Rochester Instrument Systems Inc	
Rochester NY	716-263-7700
Ross Engineering Corp Campbell CA	408-377-4621
Scanning Devices Inc Waltham MA	617-891-8991
Tektronix Inc Beaverton OR	800-547-6711
Teledyne Microelectronics Los Angeles CA	213-870-9831
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
Velonex Santa Clara CA	408-727-7370
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS, INSTRUMENTATION & CONTROL—SERVO (EXCEPT MAGNETIC & MODULES)

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
KEPCO INC FLUSHING NY	718-461-7000
SCHAEVITZ ENGINEERING	
PENNSAUKEN NJ	609-662-8000
Aerotech Inc Pittsburgh PA	412-963-7470
Bailey Controls Co Wickliffe OH	216-585-8500
Bay Labs Div Tegam Inc Madison OH	216-428-7505
Benton Corp Warrendale PA	412-776-5577
Buckminster Corp Cambridge MA	617-864-2456
Burr-Brown Corp Tucson AZ	602-746-1111
Circuit Technology Inc Farmingdale NY	516-293-8686
Control Technology Co Inc	
Long Island City NY	718-361-2133
Cronics Inc Lebanon NH	603-448-6300
Curry Engineering Co N Hollywood CA	213-877-1786
Datatron Labs Inc Sussex NJ	914-856-4313
Design Automation Inc Lexington MA	617-862-8998
EG & G Torque Systems Watertown MA	617-924-6000
Elatenc Milpitas CA	408-945-1323
Electro-Craft Corp Hopkins MN	612-931-2700
Ferranti Electric Inc Semi-Conductor Group	
Commack NY	516-543-0200
General Magnetics Inc Bloomfield NJ	201-743-2700
Gientek Inc El Segundo CA	213-322-3026
Henschel Corp Newburyport MA	617-462-2400
Hottinger Baldwin Measurements Inc	
Framingham MA	617-875-8282
Industrial Control Co Rockledge FL	305-259-7105
Industrial Drives, Kollmorgen Radford VA	703-639-2495
Inertial Motors Corp Doylestown PA	215-345-1010
Inland Motor Specialty Prods Div-Kollmorgen Corp	
Radford VA	703-639-9045
Kaybar Corp Little Ferry NJ	201-440-3848
Keppo Inc Flushing NY	718-461-7000
Lear Siegler Inc Santa Monica CA	213-452-5444
Leeds & Northrup Instruments	
North Wales PA	215-643-2000

Ling Electronics Inc Anaheim CA	714-779-1900
Magnetico Inc Holtville NY	516-654-1166
Malwin Electronics Corp Paterson NJ	201-881-1500
Micro Mo Electronics Inc St Petersburg FL	813-822-2529
Modular Devices Inc Bohemia NY	516-567-9620
Motion Science Inc San Jose CA	408-287-0300
MPC Products Corp Skokie IL	312-673-8300
Natel Engineering Co Inc Simi Valley CA	805-581-3950
National Semiconductor Corp Santa Clara CA	408-721-5000
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Omega Industries Inc Newport Beach CA	714-642-8313
PMI Motion Technologies Commack NY	516-864-1000
Robicon Corp Pittsburgh PA	412-327-7000
Scanning Devices Inc Waltham MA	617-891-8991
Schaevitz Engineering Pennsauken NJ	609-662-8000
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Singer Co Kearfoot Div Little Falls NJ	201-785-6000
Teledyne Microelectronics Los Angeles CA	213-870-9831
Transicoil Inc Worcester PA	215-277-1300
Transmagnetics Inc Farmingdale NY	516-293-3100
Unico Inc Franksville WI	414-886-5678
West Coast Research Corp Los Angeles CA	213-478-8833
White Technology Inc Phoenix AZ	602-437-1520

AMPLIFIERS, INSTRUMENTATION & CONTROL—STRAIN GAGE (EXCEPT MODULES)

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
PRESTON SCIENTIFIC INC ANAHEIM CA	714-776-6400
SCHAEVITZ ENGINEERING	
PENNSAUKEN NJ	609-662-8000
Acromag Inc Wixom MI	313-624-1541
Acrotech Brea CA	714-529-4666
Action Instruments Inc San Diego CA	619-279-5726
A L Design Inc Amherst NY	716-833-6272
Analog Devices Inc Norwood MA	617-329-4700
Aydin Vector Div Newtown PA	215-968-4271
Bailey Controls Co Wickliffe OH	216-585-8500
Bay Labs Div Tegam Inc Madison OH	216-428-7505
Betatronics Inc Lincolnwood IL	312-676-1747
B & F Instruments Div FX Sys Corp	
Kingston NY	914-338-0515
BLH Electronics Canton MA	617-821-2000
Bruel & Kjaer Instruments Inc Marlboro MA	617-481-7000
Burr-Brown Corp Tucson AZ	602-746-1111
Control Technology Co Inc	
Long Island City NY	718-361-2133
Dynamics Electronic Products Inc	
Chatsworth CA	818-998-0121
Dynisco Norwood MA	617-769-6600
Ectron Corp San Diego CA	619-278-0600
Elatenc Milpitas CA	408-945-1323
Elecor Associates Morris Plains NJ	201-299-1615
Endevco San Juan Capistrano CA	714-493-8181
Eon Instrumentation Inc Van Nuys CA	818-781-2185
Fairchild Weston Systems Inc Sarasota FL	813-371-0811
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Gientek Inc El Segundo CA	213-322-3026
Gould Inc Recording Systems Div	
Cleveland OH	216-361-3315
GSE Inc Farmington Hills MI	313-476-7875
Hades Mfg Corp Farmingdale NY	516-249-4244
Helm Instrument Co Inc Maumee OH	419-893-4356
Himmelsheim & Co S Hoffman Estates IL	312-843-3300
Honeywell Test Instruments Div Denver CO	303-773-4700
Hottinger Baldwin Measurements Inc	
Framingham MA	617-875-8282
Industrial Control Co Rockledge FL	305-259-7105
Ithaco Inc Ithaca NY	607-272-7640
Kistler-Morse Corp Redmond WA	206-881-8000
Kulite Semiconductor Products Inc	
Ridgely NJ	201-945-3000
Marel Instrument Co Cape Coral FL	813-574-8788
Measurements Group Inc Raleigh NC	919-365-3800
Natel Engineering Co Inc Simi Valley CA	805-581-3950
Pace Transducer Co Div CJ Instr Inc	
Tarzana CA	818-996-4131
Pacific Instruments Inc Concord CA	415-827-9010
Paine Instruments Inc Seattle WA	800-426-0366
PPM Inc Cleveland OH	216-292-6006
Precision Filters Inc Ithaca NY	607-277-3550
Preston Scientific Inc Anaheim CA	714-776-6400
Ramapo Instrument Div Hersey Prods Inc	
Spartanburg SC	803-578-1005
Rochester Instrument Systems Inc	
Rochester NY	716-263-7700
Schaevitz Engineering Pennsauken NJ	609-662-8000
Sens-Metrics Inc Simi Valley CA	805-527-3640
Sensor Developments Inc Oxford MI	313-628-2727
Soitec Corp Sun Valley CA	818-767-0044
Streeter Richardson Div Grayslake IL	312-223-4801
Tektronix Inc Beaverton OR	800-547-6711
Telectro Systems Corp Corona NY	212-651-8900
Teledyne Microelectronics Los Angeles CA	213-870-9831
Tensitron Inc Harvard MA	617-456-3511
Tustin Electronics Co Santa Ana CA	714-549-0391
Unholtz-Dickie Corp Wallingford CT	203-265-3929
Waugh Controls Corp Chatsworth CA	818-998-8281
West Coast Research Corp Los Angeles CA	213-478-8833
White Technology Inc Phoenix AZ	602-437-1520
Yokogawa Corp Of America Shenandoah GA	404-253-7000

AMPLIFIERS—KEYING

CML MACARR DIV BROOKLYN NY	718-857-2400
CML Macarr Div Brooklyn NY	718-857-2400
Teledyne Microelectronics Los Angeles CA	213-870-9831
T M Systems Inc Bridgeport CT	203-366-4571
Tron-Tech Inc Neptune NJ	201-229-4348

AMPLIFIERS—LINE REPEATER

See Repeaters

AMPLIFIERS, MAGNETIC-DC

BASLER ELECTRIC CO HIGHLAND IL	618-654-2341
CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY	718-361-2133
Airpax Corp Ft Lauderdale Div Ft Lauderdale FL	305-587-1100
Aydin Radar & EW Div San Jose CA	408-629-1100
Basler Electric Co Highland IL	618-654-2341
Centroid Inc Syosset NY	516-822-4770
Control Technology Co Inc Long Island City NY	718-361-2133
Copley Controls Corp Newtown MA	617-965-2410
Electro-Pacific Inc Goleta CA	805-964-4878
Forbes & Wagner Inc Silver Creek NY	716-934-2691
Freed Transformer Co Inc Ridgewood NY	718-386-1300
General Magnetics Inc Bloomfield NJ	201-743-2700
Harrel Inc East Norwalk CT	203-866-2573
Industrial Control Co Rockledge FL	305-259-7105
Leeds & Northrup Instruments North Wales PA	215-643-2000
Magnetek Corp Boulder CO	303-442-6700
Magnetico Inc Holtville NY	516-654-1166
Magnetics Div Spang Co Butler PA	412-282-8282
McFadden Systems Inc South Gate CA	215-664-5958
Modular Devices Inc Bohemia NY	516-567-9620
Sigma Instruments Inc Switching Div Braintree MA	617-843-5000
S K G Associates Inc Norwell MA	617-878-7250
Teledyne Microelectronics Los Angeles CA	213-870-9831
Torelco Inc Irvington NJ	201-374-8641
Torotron Corp Mt Vernon NY	914-664-2050
Transmagmatics Inc Farmingdale NY	516-293-3100

AMPLIFIERS, MAGNETIC—POWER SUPPLY

DEL ELECTRONICS CORP MT VERNON NY	914-699-2000
ELGAR CORP AN ONAN OPERATING UNIT SAN DIEGO CA	619-450-0085
JOHN FRANEK CO INC IRVINE CA	714-261-5377
Acme Electric Corp Olean NY	716-968-2400
Aydin Radar & EW Div San Jose CA	408-629-1100
Copley Controls Corp Newtown MA	617-965-2410
Del Electronics Corp Mt Vernon NY	914-699-2000
Electro-Pacific Inc Goleta CA	805-964-4878
Elgar Corp an Onan Operating Unit San Diego CA	619-450-0085
John Franeck Co Inc Irvine CA	714-261-5377
General Magnetics Inc Bloomfield NJ	201-743-2700
K G S Electronics Pasadena CA	818-798-0786
Magnetico Inc Holtville NY	516-654-1166
Magnetics Div Spang Co Butler PA	412-282-8282
Modular Devices Inc Bohemia NY	516-567-9620
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
S K G Associates Inc Norwell MA	617-878-7250
Teledyne Microelectronics Los Angeles CA	213-870-9831
Torelco Inc Irvington NJ	201-374-8641
Torotron Corp Mt Vernon NY	914-664-2050
Varo Inc Power Systems Div Garland TX	214-840-5000

AMPLIFIERS, MAGNETIC—PREAMPLIFIERS & LOW LEVEL

Aydin Radar & EW Div San Jose CA	408-629-1100
Electro-Pacific Inc Goleta CA	805-964-4878
Epitex Electronics Inc Ogdensburg NY	613-592-2240
Flow Technology Inc Phoenix AZ	602-437-1315
Freed Transformer Co Inc Ridgewood NY	718-386-1300
General Magnetics Inc Bloomfield NJ	201-743-2700
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Industrial Control Co Rockledge FL	305-259-7105
Magnetic Component Engineering Inc Culver City CA	213-398-4761
Magnetico Inc Holtville NY	516-654-1166
Magnetics Div Spang Co Butler PA	412-282-8282
Physical Acoustics Corp Princeton NJ	609-452-2510
S K G Associates Inc Norwell MA	617-878-7250
Teledyne Microelectronics Los Angeles CA	213-870-9831
Telex Communications Inc Minneapolis MN	612-884-4051
Torelco Inc Irvington NJ	201-374-8641
Torotron Corp Mt Vernon NY	914-664-2050

AMPLIFIERS, MAGNETIC—REGULATORS

CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY	718-361-2133
JOHN FRANEK CO INC IRVINE CA	714-261-5377
Aydin Radar & EW Div San Jose CA	408-629-1100
Control Technology Co Inc Long Island City NY	718-361-2133
Electro-Pacific Inc Goleta CA	805-964-4878
John Franeck Co Inc Irvine CA	714-261-5377
General Magnetics Inc Bloomfield NJ	201-743-2700
Industrial Control Co Rockledge FL	305-259-7105
K G S Electronics Pasadena CA	818-798-0786
Leeds & Northrup Instruments North Wales PA	215-643-2000
Magnetek Corp Boulder CO	303-442-6700
Magnetics Div Spang Co Butler PA	412-282-8282

Modular Devices Inc Bohemia NY	516-567-9620
S K G Associates Inc Norwell MA	617-878-7250
Teledyne Microelectronics Los Angeles CA	213-870-9831
Torelco Inc Irvington NJ	201-374-8641
Torotron Corp Mt Vernon NY	914-664-2050

AMPLIFIERS, MAGNETIC—SERVO

CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY	718-361-2133
Control Technology Co Inc Long Island City NY	718-361-2133
Electro-Pacific Inc Goleta CA	805-964-4878
Freed Transformer Co Inc Ridgewood NY	718-386-1300
General Magnetics Inc Bloomfield NJ	201-743-2700
Industrial Control Co Rockledge FL	305-259-7105
Magnetico Inc Holtville NY	516-654-1166
Modular Devices Inc Bohemia NY	516-567-9620
Motion Science Inc San Jose CA	408-287-0300
Orbit Instrument Corp Hauppauge NY	516-435-8300
Teledyne Microelectronics Los Angeles CA	213-870-9831
Torol Products Inc Grandview MO	816-761-6314
Torotron Corp Mt Vernon NY	914-664-2050

AMPLIFIERS, MAGNETIC—SPEED CONTROL

CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY	718-361-2133
Control Technology Co Inc Long Island City NY	718-361-2133
Datatron Labs Inc Sussex NJ	914-856-4313
Electro-Pacific Inc Goleta CA	805-964-4878
Industrial Control Co Rockledge FL	305-259-7105
Leeds & Northrup Instruments North Wales PA	215-643-2000
Magnetico Inc Holtville NY	516-654-1166
Modular Devices Inc Bohemia NY	516-567-9620
Motion Science Inc San Jose CA	408-287-0300
Robicon Corp Pittsburgh PA	412-327-7000
S K G Associates Inc Norwell MA	617-878-7250
Teledyne Microelectronics Los Angeles CA	213-870-9831
Torotron Corp Mt Vernon NY	914-664-2050

AMPLIFIERS—MODULES

See Amplifiers, Analog Module

See Also ICs Listings

AMPLIFIERS—MULTICOUPLER

M/A-COM MICROWAVE POWER DEVICES INC HAUPPAUGE NY	516-231-1400
ADV PG 19	
Adams-Russell Co Inc Anzac Div Burlington MA	617-273-3333
Aiken Advanced Sys Div Amstar Tech Prods Inc Alexandria VA	703-370-0900
Applied Research Inc Plainview NY	516-349-9200
Avantek Inc Santa Clara CA	408-946-6710
Betatronics Inc Lincolnwood IL	312-676-1747
C-COR Electronics Inc State College PA	814-238-2461
Comdel Inc Beverly MA	617-927-3144
Eaton Corp AIL Div Deer Park NY	516-595-5000
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Microwave Power Devices Inc Hauppauge NY	516-231-1400
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
North Hills Electronics Inc Glen Cove NY	516-671-5700
Olektron Corp Webster MA	617-943-7440
P G Electronics Ltd Weston ON	416-741-7682
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Teledyne Microelectronics Los Angeles CA	213-870-9831
Tron-Tech Inc Neptune NJ	201-229-4348
Wide Band Engineering Co Inc Phoenix AZ	602-254-1570

AMPLIFIERS—OPERATIONAL (EXCEPT MODULES OR IC DEVICES)

KEPCO INC FLUSHING NY	718-461-7000
TIME ZERO CORP CLIFTON NJ	201-340-0400
Altek Co Torrington CT	203-482-7626
Burr-Brown Corp Tucson AZ	602-746-1111
Comlinear Corp Fort Collins CO	303-226-0500
Copley Controls Corp Newtown MA	617-965-2410
Datel Div General Electric Co Mansfield MA	617-339-9341
Dynamics Electronic Products Inc Chatsworth CA	818-998-0121
Eltec Instruments Inc Daytona Beach FL	904-253-5328
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Glentek Inc El Segundo CA	213-322-3026
Keithley Instruments Inc Cleveland OH	216-248-0400
Keeco Inc Flushing NY	718-461-7000
Leeds & Northrup Instruments North Wales PA	215-643-2000
McFadden Systems Inc South Gate CA	215-664-5958
Modular Devices Inc Bohemia NY	516-567-9620
Singer Co Kearfott Div Little Falls NJ	201-785-6000
Tektronix Inc Beaverton OR	800-547-6711
Teledyne Microelectronics Los Angeles CA	213-870-9831
Time Zero Corp Clifton NJ	201-340-0400
United Detector Technology Hawthorne CA	213-978-0516

AMPLIFIERS, RF—COMMUNICATIONS & REBROADCAST BOOSTERS

ELECTRONIC NAVIGATION INDUSTRIES INC ROCHESTER NY	716-427-8300
ADV PG 18	
INSTRUMENTS FOR INDUSTRY INC FARMINGDALE NY	516-694-1414
ADV PG 17	
INTERELECTRONICS CORP CONGERS NY	914-358-8000
M/A-COM MICROWAVE POWER DEVICES INC HAUPPAUGE NY	516-231-1400
ADV PG 19	
MICROWAVE CONTROL DIV MICON INC BRICK NJ	201-458-3000
Acrodyne Industries Inc Blue Bell PA	215-542-7000
Adams-Russell Co Inc Anzac Div Burlington MA	617-273-3333
Aiken Advanced Sys Div Amstar Tech Prods Inc Alexandria VA	703-370-0900
Alpha Industries Inc Woburn MA	617-935-5150
Amplifier Research Corp Souderton PA	215-723-8181
Antenna Specialists Co Cleveland OH	216-791-7878
Applied Research Inc Plainview NY	516-349-9200
B F Electronics Solana Beach CA	619-755-1881
Comdel Inc Beverly MA	617-927-3144
Comlinear Corp Fort Collins CO	303-226-0500
Continental Electronics Div Varian Assoc Dallas TX	214-381-7161
Eaton Corp AIL Div Deer Park NY	516-595-5000
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Electronic Navigation Industries Inc Rochester NY	716-427-8300
Epsco Inc Westwood MA	617-329-1500
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Hustler Inc Mineral Wells TX	817-325-1386
Instruments for Industry Inc Farmingdale NY	516-694-1414
Interellectronics Corp Congers NY	914-358-8000
International Microwave Corp Stamford CT	203-323-5599
LaPointe Industries Inc Rockville CT	203-872-8581
Loral Data Systems/Conic San Diego CA	619-279-0411
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Microwave Power Devices Inc Hauppauge NY	516-231-1400
Marti Electronics Inc Cleburne TX	817-645-9163
MCL Inc La Grange IL	312-354-4350
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Microwave Semiconductor Corp Somerset NJ	201-469-3311
MITEQ Inc Hauppauge NY	516-543-8873
Moseley Associates Inc Goleta CA	805-968-9621
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
Nautical Electronic Labs Ltd Hacketts Cove NS	902-823-2233
P G Electronics Ltd Weston ON	416-741-7682
RF Power Labs Inc Bothell WA	206-481-8833
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Scientific Radio Systems Inc Rochester NY	716-458-3733
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Solltron Devices Inc Semiconductor Group Riviera Beach FL	305-848-4311
Teletro Systems Corp Corona NY	212-651-8900
Teledyne Microelectronics Los Angeles CA	213-870-9831
TIW Systems Inc Sunnyvale CA	408-734-3900
Tron-Tech Inc Neptune NJ	201-229-4348
TRW Microwave Sunnyvale CA	408-732-0880
TRW RF Devices Div Lawndale CA	213-536-0888
TTT/Television Technology Corp Broomfield CO	303-465-4141
Watkins-Johnson Co Palo Alto CA	415-493-4141
Wide Band Engineering Co Inc Phoenix AZ	602-254-1570
Winegard Co Burlington IA	319-253-0121

AMPLIFIERS, RF—KLYSTRON

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Amperex Electronic Corp Hicksville Div Hicksville NY	516-931-6200
Cober Electronics Inc Stamford CT	203-327-0003
Continental Electronics Div Varian Assoc Dallas TX	214-381-7161
ETM-Electromatic Inc Palo Alto CA	415-494-1505
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
ITT Electron Technology Div Easton PA	215-252-7331
LogiMetrics Inc Plainview NY	516-349-1700
MCL Inc La Grange IL	312-354-4350
Teledyne Microelectronics Los Angeles CA	213-870-9831
Varian Electron Device Group Palo Alto CA	415-493-4000

AMPLIFIERS, RF—LABORATORY & TEST, THROUGH MICROWAVE

ELECTRONIC NAVIGATION INDUSTRIES INC ROCHESTER NY	716-427-8300
ADV PG 18	
INSTRUMENTS FOR INDUSTRY INC FARMINGDALE NY	516-694-1414
ADV PG 17	
M/A-COM MICROWAVE POWER DEVICES INC HAUPPAUGE NY	516-231-1400
ADV PG 19	
MICROWAVE CONTROL DIV MICON INC BRICK NJ	201-458-3000
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Adams-Russell Co Inc Anzac Div Burlington MA	617-273-3333
Alpha Industries Inc Woburn MA	617-935-5150
Amplifier Research Corp Souderton PA	215-723-8181
Applied Research Inc Plainview NY	516-349-9200

Avantek Inc Santa Clara CA	408-496-6710
Cobor Electronics Inc Stamford CT	203-327-0003
Comline Corp Fort Collins CO	303-226-0500
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Continental Resources Inc Bedford MA	617-275-0850
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Epsco Inc Westwood MA	617-329-1500
ETM-Electromatic Inc Palo Alto CA	415-494-1505
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Hewlett-Packard Palo Alto CA	415-857-8000
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
Hughes Aircraft Co Electron Dynamics Div	
Torrance CA	213-517-6000
Hustler Inc Mineral Wells TX	817-325-1386
Instruments for Industry Inc Farmingdale NY	516-694-1414
International Microwave Corp Stamford CT	203-323-5599
Keltec Florida Div Amstar Tech Prods Co Inc	
Fort Walton Bch FL	904-244-0043
Lifton Electron Devices Div San Carlos CA	415-591-8411
LNR Communications Inc Hauppauge NY	516-273-7111
Locus Inc State College PA	814-466-6275
LogiMetrics Inc Plainview NY	516-349-1700
Loral Data Systems/Conic San Diego CA	619-279-0411
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
MCL Inc La Grange IL	312-354-4350
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Microwave Semiconductor Corp Somerset NJ	201-469-3311
Mini-Circuits Lab Brooklyn NY	718-934-4500
MITEQ Inc Hauppauge NY	516-543-8873
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
The Narda Microwave Corp Hauppauge NY	516-231-1700
NSD Los Alamitos CA	714-527-4896
P G Electronics Ltd Weston ON	416-741-7682
RF Power Labs Inc Bothell WA	206-481-8833
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Sanders Associates Inc Nashua NH	603-885-4321
Scientific Communications Inc Garland TX	214-840-4900
Tektron Micro Electronics Inc	
Linthicum Hts MD	301-850-4200
TIW Systems Inc Sunnyvale CA	408-734-3900
Trak Microwave Corp Tampa FL	813-884-1411
Tron-Tech Inc Neptune NJ	201-229-4348
TRW Microwave Sunnyvale CA	408-732-0880
Tucker Electronics Co Garland TX	214-348-8800
Varian Electron Device Group Palo Alto CA	415-493-4000

AMPLIFIERS, RF—LABORATORY & TEST, THROUGH UHF RADIO

CML MACARR DIV BROOKLYN NY	718-857-2400
ADV PG 18	
EHRHORN TECHNOLOGICAL OPERATIONS INC	
CANON CITY CO	303-275-1613
ADV PG 17	
ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
ADV PG 18	
INSTRUMENTS FOR INDUSTRY INC	
FARMINGDALE NY	516-694-1414
ADV PG 17	
M/A-COM MICROWAVE POWER DEVICES INC	
HAUAPPAUGE NY	516-231-1400
ADV PG 19	
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Alpha Industries Inc Woburn MA	617-935-5150
Amplifier Research Corp Souderton PA	215-723-8181
Applied Research Inc Plainview NY	516-349-9200
Avantek Inc Santa Clara CA	408-496-6710
Aydin Vector Div Newtown PA	215-968-4271
Blonder-Tongue Labs Inc Old Bridge NJ	201-679-4000
C-COR Electronics Inc State College PA	814-238-2461
CML Macarr Div Brooklyn NY	718-857-2400
Compliance Design Inc Boxborough MA	617-264-4668
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Continental Resources Inc Bedford MA	617-275-0850
Design Automation Inc Lexington MA	617-862-8998
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Ehrhorn Technological Operations Inc	
Canon City CO	303-275-1613
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Epsco Inc Westwood MA	617-329-1500
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Hewlett-Packard Palo Alto CA	415-857-8000
Instruments for Industry Inc Farmingdale NY	516-694-1414
Keltec Florida Div Amstar Tech Prods Co Inc	
Fort Walton Bch FL	904-244-0043
Locus Inc State College PA	814-466-6275
LogiMetrics Inc Plainview NY	516-349-1700
Loral Data Systems/Conic San Diego CA	619-279-0411
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
MCL Inc La Grange IL	312-354-4350
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Mini-Circuits Lab Brooklyn NY	718-934-4500
MITEQ Inc Hauppauge NY	516-543-8873
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
NSD Los Alamitos CA	714-527-4896
P G Electronics Ltd Weston ON	416-741-7682

RF Power Labs Inc Bothell WA	206-481-8833
Sanders Associates Inc Nashua NH	603-885-4321
Scientific Communications Inc Garland TX	214-840-4900
Tektron Micro Electronics Inc	
Linthicum Hts MD	301-850-4200
Trak Microwave Corp Tampa FL	813-884-1411
Tron-Tech Inc Neptune NJ	201-229-4348
TRW RF Devices Div Lawndale CA	213-536-0888
Wide Band Engineering Co Inc Phoenix AZ	602-254-1570

AMPLIFIERS, RF—MAGNETRON

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Cobor Electronics Inc Stamford CT	203-327-0003
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
ETM-Electromatic Inc Palo Alto CA	415-494-1505
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
Teledyne Microelectronics Los Angeles CA	213-870-9831
Vega Precision Labs Vienna VA	703-938-6300

AMPLIFIERS, RF—MASER

Eaton Corp AIL Div Deer Park NY	516-595-5000
LNR Communications Inc Hauppauge NY	516-273-7111
Perry Amplifier Brookline MA	617-734-0844
Teledyne Microelectronics Los Angeles CA	213-870-9831

AMPLIFIERS, RF—PARAMETRIC, TUBE TYPE

Alpha Industries Inc Woburn MA	617-935-5150
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Eaton Corp AIL Div Deer Park NY	516-595-5000
Teledyne Microelectronics Los Angeles CA	213-870-9831

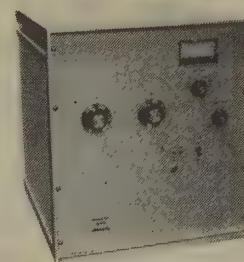
AMPLIFIERS, RF—PEAK LIMITING

INTERELECTRONICS CORP CONGERS NY	914-358-8000
M/A-COM MICROWAVE POWER DEVICES INC	
HAUAPPAUGE NY	516-231-1400
ADV PG 19	
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
Acromag Inc Wixom MI	313-624-1541
Alpha Industries Inc Woburn MA	617-935-5150
Applied Research Inc Plainview NY	516-349-9200
Avantek Inc Santa Clara CA	408-496-6710
Interletronics Corp Congers NY	914-358-8000
Kahn Communications Inc Westbury NY	516-222-2221
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Teledyne Microelectronics Los Angeles CA	213-870-9831
Tron-Tech Inc Neptune NJ	201-229-4348
TRW Microwave Sunnyvale CA	408-732-0880

AMPLIFIERS, RF—POWER, SOLID-STATE, BELOW HF

CML MACARR DIV BROOKLYN NY	718-857-2400
ADV PG 18	
ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
ADV PG 18	
ELGAR CORP AN ONAN OPERATING UNIT	
SAN DIEGO CA	619-450-0085
INSTRUMENTS FOR INDUSTRY INC	
FARMINGDALE NY	516-694-1414
ADV PG 17	
M/A-COM MICROWAVE POWER DEVICES INC	
HAUAPPAUGE NY	516-231-1400
ADV PG 19	
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
Alpha Industries Inc Woburn MA	617-935-5150
Amplifier Research Corp Souderton PA	215-723-8181
Applied Research Inc Plainview NY	516-349-9200
B F Electronics Solana Beach CA	619-755-1881
CML Macarr Div Brooklyn NY	718-857-2400
Comdel Inc Beverly MA	617-927-3144
Continental Resources Inc Bedford MA	617-275-0850
Copley Controls Corp Newtown MA	617-965-2410
Design Automation Inc Lexington MA	617-862-8998
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Elgar Corp An Onan Operating Unit	
San Diego CA	619-450-0085
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Instruments for Industry Inc Farmingdale NY	516-694-1414
Kahn Communications Inc Westbury NY	516-222-2221
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
Microwave Control Div Micon Inc Brick NJ	201-458-3000
North Hills Electronics Inc Glen Cove NY	516-671-5700
Perry Amplifier Brookline MA	617-734-0844
P G Electronics Ltd Weston ON	416-741-7682
RF Power Labs Inc Bothell WA	206-481-8833
Trak Microwave Corp Tampa FL	813-884-1411
Tron-Tech Inc Neptune NJ	201-229-4348

RF POWER



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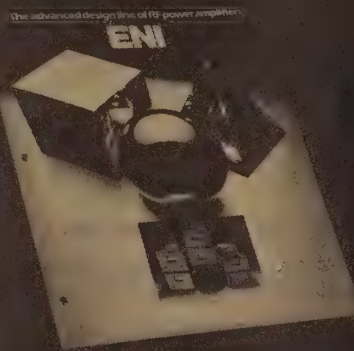
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AMPLIFIERS, RF—POWER, SOLID-STATE, HF THROUGH UHF RADIO

CML MACARR DIV BROOKLYN NY	718-857-2400
ADV PG 18	
EHRHORN TECHNOLOGICAL OPERATIONS INC	
CANON CITY CO	303-275-1613
ADV PG 17	
ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
ADV PG 18	
INSTRUMENTS FOR INDUSTRY INC	
FARMINGDALE NY	516-694-1414
ADV PG 17	
M/A-COM MICROWAVE POWER DEVICES INC	
HAUPPAUGE NY	516-231-1400
ADV PG 19	
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Alpha Industries Inc Woburn MA	617-935-5150

Amperex Electronic Corp Hicksville Div	
Hicksville NY	516-931-6200
Amplifier Research Corp Souderton PA	215-723-8181
Applied Research Inc Plainview NY	516-349-9200
Avantek Inc Santa Clara CA	408-496-6710
Aydin Vector Div Newtown PA	215-968-4271
B F Electronics Solana Beach CA	619-755-1881
Blonder-Tongue Labs Inc Old Bridge NJ	201-679-4000
CML Macarr Div Brooklyn NY	718-857-2400
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Design Automation Inc Lexington MA	617-862-8998
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Ehrhorn Technological Operations Inc	
Canon City CO	303-275-1613
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Epsco Inc Westwood MA	617-329-1500
Erbtec Engineering Inc Boulder CO	303-447-8750
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Heath Co Benton Harbor MI	616-982-3200

Hustler Inc Mineral Wells TX	817-325-1386
Instruments for Industry Inc Farmingdale NY	516-694-1414
LaPointe Industries Inc Rockville CT	203-872-8581
Lockheed-Georgia Co Marietta GA	404-424-4914
Loral Data Systems/Conic San Diego CA	619-279-0411
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Mini-Circuits Lab Brooklyn NY	718-934-4500
Moseley Associates Inc Goleta CA	805-968-9621
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
Nautical Electronic Labs Ltd	
Hacketts Cove NS	902-823-2233
North Hills Electronics Inc Glen Cove NY	516-671-5700
NSD Los Alamitos CA	714-527-4896
Oklahoma Aerotronics Inc Hartshorne OK	918-297-2566
Olektron Corp Webster MA	617-943-7440
P G Electronics Ltd Weston ON	416-741-7682
RF Power Labs Inc Bothell WA	206-481-8833
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Sitco Antennas Portland OR	503-253-2000
Teledyne Microelectronics Los Angeles CA	213-870-9831
Trak Microwave Corp Tampa FL	813-884-1411
Tron-Tech Inc Neptune NJ	201-229-4348
TRW RF Devices Div Lawndale CA	213-536-0888
TTC/Television Technology Corp	
Broomfield CO	303-465-4141
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

AMPLIFIERS, RF—POWER, SOLID-STATE, MICROWAVE

ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
ADV PG 18	
INSTRUMENTS FOR INDUSTRY INC	
FARMINGDALE NY	516-694-1414
ADV PG 17	
M/A-COM MICROWAVE POWER DEVICES INC	
HAUPPAUGE NY	516-231-1400
ADV PG 19	
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Alpha Industries Inc Woburn MA	617-935-5150
Applied Research Inc Plainview NY	516-349-9200
Avantek Inc Santa Clara CA	408-496-6710
Blonder-Tongue Labs Inc Old Bridge NJ	201-679-4000
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Electronics Surveillance Components Inc	
Palo Alto CA	415-494-7803
Epsco Inc Westwood MA	617-329-1500
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hughes Aircraft Co Microwave Prods Div	
Torrance CA	213-517-6400
Instruments for Industry Inc Farmingdale NY	516-694-1414
International Microwave Corp Stamford CT	203-323-5599
Litton Electron Devices Div San Carlos CA	415-591-8411
Loral Data Systems/Conic San Diego CA	619-279-0411
M/A-COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000
M/A-COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Microwave Semiconductor Corp Somerset NJ	201-469-3311
Mini-Circuits Lab Brooklyn NY	718-934-4500
MITEC Inc Hauppauge NY	516-543-8873
The Narda Microwave Corp Hauppauge NY	516-231-1870
NSD Los Alamitos CA	714-527-4896
Rodale Electronics Corp Garden City NY	516-222-0050
Sanders Associates Inc Nashua NH	603-885-4321
Soliton Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Teledyne Microelectronics Los Angeles CA	213-870-9831
Trak Microwave Corp Tampa FL	813-884-1411
Tron-Tech Inc Neptune NJ	201-229-4348
TRW Microwave Sunnyvale CA	408-732-0880
TRW RF Devices Div Lawndale CA	213-536-0888
Tucker Electronics Co Garland TX	214-348-8800
Varian Electron Device Group Palo Alto CA	415-493-4000
Watkins-Johnson Co Palo Alto CA	415-493-4141
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

AMPLIFIERS, RF—POWER TUBE, BELOW HF

CML MACARR DIV BROOKLYN NY	718-857-2400
ADV PG 18	
INSTRUMENTS FOR INDUSTRY INC	
FARMINGDALE NY	516-694-1414
ADV PG 17	
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
Amplifier Research Corp Souderton PA	215-723-8181
Applied Research Inc Plainview NY	516-349-9200
CML Macarr Div Brooklyn NY	718-857-2400
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Instruments for Industry Inc Farmingdale NY	516-694-1414
Microwave Control Div Micon Inc Brick NJ	201-458-3000
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Teledyne Microelectronics Los Angeles CA	213-870-9831
TTC/Television Technology Corp	
Broomfield CO	303-465-4141

AMPLIFIERS, RF—POWER, TUBE HF THROUGH UHF RADIO

CML MACARR DIV BROOKLYN NY	718-857-2400
ADV PG 18	
EHRRON TECHNOLOGICAL OPERATIONS INC	
CANON CITY CO	303-275-1613
ADV PG 17	
INSTRUMENTS FOR INDUSTRY INC	
FARMINGDALE NY	516-694-1414
ADV PG 17	
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000

Amplifier Research Corp Souderton PA	215-723-8181
Applied Research Inc Plainview NY	516-349-9200
CML Macarr Div Brooklyn NY	718-857-2400
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Ehrhorn Technological Operations Inc	
Canon City CO	303-275-1613
Epsco Inc Westwood MA	617-329-1500
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Heath Co Benton Harbor MI	616-982-3200
Instruments for Industry Inc Farmingdale NY	516-694-1414
MCL Inc La Grange IL	312-354-4350
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Omega Industries Inc Newport Beach CA	714-642-8313
RFD Inc Tampa FL	813-872-1502
RF Power Labs Inc Bothell WA	206-481-8833
Scientific Radio Systems Inc Rochester NY	716-458-3733
Teledyne Microelectronics Los Angeles CA	213-870-9831
Thomson-CSF Electron Tube Div	
Rutherford NJ	201-438-2300
Trak Microwave Corp Tampa FL	813-884-1411
Varian Electron Device Group Palo Alto CA	415-493-4000

AMPLIFIERS, RF—POWER, TUBE, MICROWAVE (EXCEPT KLYSTRON, MAGNETRON, PARAMETRIC & TWT)

MICROWAVE CONTROL DIV MICON INC	201-458-3000
BRICK NJ	
RADIO-RESEARCH INSTRUMENT CO INC	
DANBURY CT	203-792-6666
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
EEV Inc Elmsford NY	914-592-6050
Epsco Inc Westwood MA	617-329-1500
ETM-Electromatic Inc Palo Alto CA	415-494-1505
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Keltec Florida Div Amstar Tech Prods Co Inc	
Fort Walton Bch FL	904-244-0043
Litton Electron Devices Div San Carlos CA	415-591-8411
LogiMetrics Inc Plainview NY	516-349-1700
MCL Inc La Grange IL	312-354-4350
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Nurad Inc Baltimore MD	301-462-1700
Radio-Research Instrument Co Inc	
Danbury CT	203-792-6666
RFD Inc Tampa FL	813-872-1502
Teledyne Microelectronics Los Angeles CA	213-870-9831
Trak Microwave Corp Tampa FL	813-884-1411
Varian Electron Device Group Palo Alto CA	415-493-4000

AMPLIFIERS, RF—RECEIVER, MICROWAVE

M/A-COM MICROWAVE POWER DEVICES INC	516-231-1400
HAUPPAUGE NY	
ADV PG 19	
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Alpha Industries Inc Woburn MA	617-935-5150
Applied Research Inc Plainview NY	516-349-9200
Avantek Inc Santa Clara CA	408-496-6710
Eaton Corp AIL Div Deer Park NY	516-595-5000
Epsco Inc Westwood MA	617-329-1500
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
International Microwave Corp Stamford CT	203-323-5599
LNR Communications Inc Hauppauge NY	516-273-7111
Locus Inc State College PA	814-466-6275
Loral Data Systems/Conic San Diego CA	619-279-0411
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
M/A-COM OSW Inc Tempe AZ	602-966-1471
Marti Electronics Inc Cleburne TX	817-645-9163
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Microwave Semiconductor Corp Somerset NJ	201-469-3311
MITEQ Inc Hauppauge NY	516-543-8873
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
The Narda Microwave Corp Hauppauge NY	516-231-1700
Nurad Inc Baltimore MD	301-462-1700

RHG Electronics Lab Inc Deer Park NY	516-242-1100
Rodale Electronics Corp Garden City NY	516-222-0050
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Sanders Associates Inc Nashua NH	603-885-4321
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Scientific Communications Inc Garland TX	214-840-4900
Solltron Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Teledyne Microelectronics Los Angeles CA	213-870-9831
Texscan Corp Phoenix AZ	602-252-5021
Trak Microwave Corp Tampa FL	813-884-1411
Triangle Microwave Inc East Hanover NJ	201-884-1423
Tron-Tech Inc Neptune NJ	201-229-4348
TRW Microwave Sunnyvale CA	408-732-0880
TRW RF Devices Div Lawndale CA	213-536-0888
Varian Electron Device Group Palo Alto CA	415-493-4000
Western Microwave Sunnyvale CA	408-734-1631

AMPLIFIERS, RF—RECEIVER, MILLIMETER WAVE

Alpha Industries Inc Woburn MA	617-935-5150
Applied Research Inc Plainview NY	516-349-9200
Eaton Corp AIL Div Deer Park NY	516-595-5000
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
Hughes Aircraft Co Microwave Prods Div	
Torrance CA	213-517-6400
LNR Communications Inc Hauppauge NY	516-273-7111
McDonnell Douglas Electronics St Charles MO	314-925-4000
Teledyne Microelectronics Los Angeles CA	213-870-9831
Trak Microwave Corp Tampa FL	813-884-1411
TRW Microwave Sunnyvale CA	408-732-0880

AMPLIFIERS, RF—RECEIVER, RADIO COMMUNICATIONS

M/A-COM MICROWAVE POWER DEVICES INC	516-231-1400
HAUPPAUGE NY	
ADV PG 19	
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Aiken Advanced Sys Div Amstar Tech Prods Inc	
Alexandria VA	703-370-0900
Alpha Industries Inc Woburn MA	617-935-5150
Applied Research Inc Plainview NY	516-349-9200
Avantek Inc Santa Clara CA	408-496-6710
Aydin Vector Div Newtown PA	215-968-4271
B F Electronics Solana Beach CA	619-755-1881
Comline Corp Fort Collins CO	303-226-0500
Compliance Design Inc Boxborough MA	617-264-4668
Decibel Products Inc Dallas TX	214-613-0310
Eaton Corp AIL Div Deer Park NY	516-595-5000
Electro-Nav Inc Elizabeth NJ	201-527-0099
Harris Corp RF Commun Grp Rochester NY	716-244-5830
International Microwave Corp Stamford CT	203-323-5599
Kahn Communications Inc Westbury NY	516-222-2221
LNR Communications Inc Hauppauge NY	516-273-7111
Locus Inc State College PA	814-466-6275
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
McDonnell Douglas Electronics St Charles MO	314-925-4000
Microwave Semiconductor Corp Somerset NJ	201-469-3311
MITEQ Inc Hauppauge NY	516-543-8873
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
NSD Los Alamitos CA	714-527-4896
Oklahoma Aerotronics Inc Hartshorne OK	918-297-2566
Palomar Engineers Escondido CA	619-747-3343
Paraplegics Mfg Co Inc Bensenville IL	312-625-7740
P G Electronics Ltd Weston ON	416-741-7682
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Scientific Communications Inc Garland TX	214-840-4900
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Stoner Communications Inc	
Rancho Cucamonga CA	714-987-4624
Tektron Micro Electronics Inc	
Lithium Hts MD	301-850-4200
Teledyne Microelectronics Los Angeles CA	213-870-9831
Trak Microwave Corp Tampa FL	813-884-1411
Transistor Specialties Inc Danvers MA	617-774-8722
Tron-Tech Inc Neptune NJ	201-229-4348
TRW RF Devices Div Lawndale CA	213-536-0888
Western Microwave Sunnyvale CA	408-734-1631
Wide Band Engineering Co Inc Phoenix AZ	602-254-1570

AMPLIFIERS, RF—SWEEP, CRT

DEL ELECTRONICS CORP	
MT VERNON NY	914-699-2000
ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
ADV PG 18	
M/A-COM MICROWAVE POWER DEVICES INC	
HAUPPAUGE NY	516-231-1400
ADV PG 19	
Data Precision Div Analogic Danvers MA	617-246-1600
Del Electronics Corp Mt Vernon NY	914-699-2000
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
Teledyne Microelectronics Los Angeles CA	213-870-9831

AMPLIFIERS, RF—TWT

AEG CORPORATION SOMERVILLE NJ	201-722-9800
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
AEG Corporation Somerville NJ	201-722-9800
Continental Resources Inc Bedford MA	617-275-0850
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
EEV Inc Elmsford NY	914-592-6050
ETM-Electromatic Inc Palo Alto CA	415-494-1505
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hewlett-Packard Palo Alto CA	415-857-8000
Hughes Aircraft Co Electron Dynamics Div	
Torrance CA	213-517-6000
ITT Electron Technology Div Easton PA	215-252-7331
Keltec Florida Div Amstar Tech Prods Co Inc	
Fort Walton Bch FL	904-244-0043
Leasametric Inc Foster City CA	415-574-4441
Litton Electron Devices Div San Carlos CA	415-591-8411
LogiMetrics Inc Plainview NY	516-349-1700
Loral Data Systems/Conic San Diego CA	619-279-0411
MCL Inc La Grange IL	312-354-4350
Sanders Associates Inc Nashua NH	603-885-4321
Teledyne Microelectronics Los Angeles CA	213-870-9831
Thomson-CSF Electron Tube Div	
Rutherford NJ	201-438-2300
Tucker Electronics Co Garland TX	214-348-8800
Varian Electron Device Group Palo Alto CA	415-493-4000
Watkins-Johnson Co Palo Alto CA	415-493-4141

AMPLIFIERS, RF—WIDEBAND, GENERAL PURPOSE RADIO

ELECTRONIC NAVIGATION INDUSTRIES INC	716-427-8300
ROCHESTER NY	
ADV PG 18	
INSTRUMENTS FOR INDUSTRY INC	
FARMINGDALE NY	516-694-1414
ADV PG 17	
INTERELECTRONICS CORP CONGERS NY	914-358-8000
M/A-COM MICROWAVE POWER DEVICES INC	
HAUPPAUGE NY	516-231-1400
ADV PG 19	
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Aiken Advanced Sys Div Amstar Tech Prods Inc	
Alexandria VA	703-370-0900
Alpha Industries Inc Woburn MA	617-935-5150
Amplifier Research Corp Souderton PA	215-723-8181
Applied Research Inc Plainview NY	516-349-9200
Avantek Inc Santa Clara CA	408-496-6710
B F Electronics Solana Beach CA	619-755-1881
C-COR Electronics Inc State College PA	814-238-2461
Comline Corp Fort Collins CO	303-226-0500
Compliance Design Inc Boxborough MA	617-264-4668
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Continental Resources Inc Bedford MA	617-275-0850
Design Automation Inc Lexington MA	617-862-8998
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Emerson Radio Corp North Bergen NJ	201-854-4800
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Instruments for Industry Inc Farmingdale NY	516-694-1414
Interelectronics Corp Congers NY	914-358-8000
Krohn-Hite Corp Avon MA	617-580-1660
Laboratory Products Inc Hyde Park MA	617-364-6260
Linear Technology Inc Burlington ON	416-632-2996
Locus Inc State College PA	814-466-6275
Loral Data Systems/Conic San Diego CA	619-279-0411
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
Matec Instruments Inc Warwick RI	401-739-9030
Mini-Circuits Lab Brooklyn NY	718-934-4500
MITEQ Inc Hauppauge NY	516-543-8873
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
North Hills Electronics Inc Glen Cove NY	516-671-5700
NSD Los Alamitos CA	714-527-4896
Oklahoma Aerotronics Inc Hartshorne OK	918-297-2566
Perry Amplifier Brookline MA	617-734-0844
P G Electronics Ltd Weston ON	416-741-7682
RF Power Labs Inc Bothell WA	206-481-8833
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Scientific Communications Inc Garland TX	214-840-4900
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Tektron Micro Electronics Inc	
Lithium Hts MD	301-850-4200
Telectro Systems Corp Corona NY	212-651-8900
Teledyne Microelectronics Los Angeles CA	213-870-9831
TIW Systems Inc Sunnyvale CA	408-734-3900
Trak Microwave Corp Tampa FL	813-884-1411
Tron-Tech Inc Neptune NJ	201-229-4348
TRW RF Devices Div Lawndale CA	213-536-0888
Varian Electron Device Group Palo Alto CA	415-493-4000
Venator Systems Inc San Jose CA	408-262-7788
Wide Band Engineering Co Inc Phoenix AZ	602-254-1570
Winegard Co Burlington IA	319-753-0121

AMPLIFIERS—SERVO & SYNCHRO (EXCEPT MAGNETIC)

CONTROL TECHNOLOGY CO INC
LONG ISLAND CITY NY 718-361-2133
ADV PG 21

American Electronics Inc Fullerton CA.....	714-871-3020
Analog Devices Inc Norwood MA.....	617-329-4700
Apex Microtechnology Corp Tucson AZ.....	602-742-8600
Astrosystems Inc Lake Success NY.....	516-328-1600
Buckminster Corp Cambridge MA.....	617-864-2456
Burr-Brown Corp Tucson AZ.....	602-746-1111
Carco Electronics Menlo Park CA.....	415-321-8174
Circuit Technology Inc Farmingdale NY.....	516-293-8686
Control Technology Co Inc	
Long Island City NY.....	718-361-2133
Copley Controls Corp Newtown MA.....	617-965-2410
Cronics Inc Lebanon NH.....	603-448-6300
DataTran Labs Inc Sussex NJ.....	914-856-4313
Design Automation Inc Lexington MA.....	617-862-8998
Elahtec Milpitas CA.....	408-945-1323
Electro-Craft Corp Hopkins MN.....	612-931-2700
FDP Inc/Frequency Cont Prods Woodside NY.....	718-458-5811
Galil Motion Control Mountain View CA.....	415-964-6494
General Defense Corp Systems Div	
Pinellas Park FL.....	813-541-6681
General Magnetics Inc Bloomfield NJ.....	201-743-2700
Glentek Inc El Segundo CA.....	213-322-3026
Heller Corp G K Floral Park NY.....	800-323-6674
Industrial Control Co Rockledge FL.....	305-259-7105
Industrial Drives, Kollmorgen Radford VA.....	703-639-2495
Inland Motor Specialty Prods Div-Kollmorgen Corp	
Radford VA.....	703-639-9045
Kaybar Corp Little Ferry NJ.....	201-440-3848
Lear Siegler Inc Santa Monica CA.....	213-452-5444
Magnetico Inc Holtsville NY.....	516-654-1166
MKC Electronics Corp Kansas City KS.....	913-371-1351
Modular Devices Inc Bohemia NY.....	516-567-9620
Motion Science Inc San Jose CA.....	408-287-0300
MPC Products Corp Skokie IL.....	312-673-8300
Natel Engineering Co Inc Simi Valley CA.....	805-581-3950
North Atlantic Industries Inc Hauppauge NY.....	516-582-6500
North Coast Automation Programmable Motion Control	
Cleveland OH.....	216-473-3800
Omega Industries Inc Newport Beach CA.....	714-642-8313
Opamp Labs Inc Los Angeles CA.....	213-934-3566
Pacific Electro Dynamics Inc Redmond WA.....	206-881-1700
PMI Motion Technologies Commack NY.....	516-864-1000
Robicon Corp Pittsburgh PA.....	412-327-7000
Scientific-Atlanta Inc Atlanta GA.....	404-441-4000
Singer Co Kearfott Div Little Falls NJ.....	201-785-6000
Techron Elkhart IN.....	219-294-8300
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Transcoil Inc Worcester PA.....	215-277-1300
Transmagetics Inc Farmingdale NY.....	516-293-3100
Unico Inc Franksville WI.....	414-886-5678
Vernitron Control Components Div Vernitron Corp	
San Diego CA.....	619-428-5581

AMPLIFIERS

LINEAR DC Pwr ^{up to} 3000W
AC SERVO • 60Hz-400Hz

SYNCHRO AMPLIFIERS
for TORQUE RECEIVERS

RESOLVER to SYNCHRO
DIGITAL to RESOLVER

DIGITAL to SYNCHRO

CONTROL TRANSFORMER
to SYNCHRO

SERVO DEMODULATORS/PREAMPLIFIER

SERVO ACTUATORS • INDICATORS

SPECIAL SYSTEMS

MIL/SPECS • INDUSTRIAL
CUSTOM DESIGNED
STANDARD



WRITE/CALL

CONTROL

TECHNOLOGY Co. Inc.

4110 79 STREET
L.I.C. N.Y. 11101

718-361-2133

AMPLIFIERS—VIDEO, LOGARITHMIC

Aiken Advanced Sys Div Amstar Tech Prods Inc	
Alexandria VA.....	703-370-0900
Analog Modules Inc Longwood FL.....	305-339-4356
International Microwave Corp Stamford CT.....	203-323-5599
Lorch Electronics Corp Englewood NJ.....	201-569-8282
MVP Electronics Orange CA.....	714-639-9246
North Hills Electronics Inc Glen Cove NY.....	516-671-5700
Optical Electronics Inc Tucson AZ.....	602-624-8358
Tektron Micro Electronics Inc	
Linthicum Hts MD.....	301-850-4200
Tron-Tech Inc Neptune NJ.....	201-229-4348
TRW Microwave Sunnyvale CA.....	408-732-0880
Western Microwave Sunnyvale CA.....	408-734-1631

AMPLIFIERS—VIDEO, RADAR

Analog Devices Inc Norwood MA.....	617-329-4700
Analog Modules Inc Longwood FL.....	305-339-4356
Avantek Inc Santa Clara CA.....	408-496-6710
Aydin Radar & EW Div San Jose CA.....	408-629-1100
C-COR Electronics Inc State College PA.....	814-238-2461
Circuit Technology Inc Farmingdale NY.....	516-293-8686
Comlinear Corp Fort Collins CO.....	303-226-0500
Elahtec Milpitas CA.....	408-945-1323
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Loral Data Systems/Conic San Diego CA.....	619-279-0411
Lorch Electronics Corp Englewood NJ.....	201-569-8282
MVP Electronics Orange CA.....	714-639-9246
Oklahoma Aerotronics Inc Hartshorne OK.....	918-297-2566
Optical Electronics Inc Tucson AZ.....	602-624-8358
Perry Amplifier Brookline MA.....	617-734-0844
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Trak Microwave Corp Tampa FL.....	813-884-1411
Tron-Tech Inc Neptune NJ.....	201-229-4348
TRW Microwave Sunnyvale CA.....	408-732-0880
Varian Electron Device Group Palo Alto CA.....	415-493-4000

AMPLIFIERS—VOLTAGE CONTROLLED

CML MACARR DIV BROOKLYN NY.....	718-857-2400
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY.....	718-361-2133
INTERELECTRONICS CORP CONGERS NY.....	914-358-8000
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ.....	201-458-3000
Acromag Inc Wixom MI.....	313-624-1541
Analog Modules Inc Longwood FL.....	305-339-4356
Avantek Inc Santa Clara CA.....	408-496-6710
Aydin Vector Div Newtown PA.....	215-968-4271
Betatronics Inc Lincolnwood IL.....	312-676-1747

Burr-Brown Corp Tucson AZ.....	602-746-1111
CML Macarr Div Brooklyn NY.....	718-857-2400
Control Technology Co Inc	
Long Island City NY.....	718-361-2133
Emulex Corp Costa Mesa CA.....	714-662-5600
Industrial Computer Designs Inc	
Westlake Village CA.....	818-889-3179
Industrial Test Equipment Powertron	
Port Washington NY.....	516-883-1700
Interelectronics Corp Congers NY.....	914-358-8000
Ling Electronics Inc Anaheim CA.....	714-779-1900
Microwave Control Div Micon Inc Brick NJ.....	201-458-3000
Modular Devices Inc Bohemia NY.....	516-567-9620
National Semiconductor Corp Santa Clara CA.....	408-721-5000
Optical Electronics Inc Tucson AZ.....	602-624-8358
Paraplegics Mfg Co Inc Bensenville IL.....	312-625-7740
Protech Audio Corp St James NY.....	516-584-5855
Robicon Corp Pittsburgh PA.....	412-327-7000
Soliton Devices Inc Semiconductor Group	
Riviera Beach FL.....	305-848-4311
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Tron-Tech Inc Neptune NJ.....	201-229-4348
Varian Electron Device Group Palo Alto CA.....	415-493-4000
Watkins-Johnson Co Palo Alto CA.....	415-493-4141

ANALOG COMPUTERS

See Computers—Analog

ANALOG MODULES

See Amplifiers, Analog Module; Converters; ICs

Listings

ANALYZERS—ANTENNA PATTERN

Scientific-Atlanta Inc Atlanta GA.....	404-441-4000
Tucker Electronics Co Garland TX.....	214-348-8800

ANALYZERS—BATTERY

ALEXANDER MFG CO MASON CITY IA.....	515-423-8955
CML MACARR DIV BROOKLYN NY.....	718-857-2400
Alexander Mfg Co Mason City IA.....	515-423-8955
CML Macarr Div Brooklyn NY.....	718-857-2400

ANALYZERS—CORRELATION & PROBABILITY

Analogic Corp Peabody MA.....	617-532-5660
Epoch Enterprises Div Tucson AZ.....	602-887-1970
Gen Rad Inc Waltham MA.....	617-369-4400
Hewlett-Packard Palo Alto CA.....	415-857-8000
Metrosonics Inc Rochester NY.....	716-334-7300
Techron Elkhart IN.....	219-294-8300
Tettex Instruments Inc Fairview Village PA.....	215-539-6050

ANALYZERS—DIFFERENTIAL

See Computers—Analog

ANALYZERS—DISTORTION

A P CIRCUIT CORP NEW YORK NY.....	212-737-1348
Amber Electro Design Inc Montreal PQ.....	514-735-4105
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1101
A P Circuit Corp New York NY.....	212-737-1348
Atlantic Research Corp Alexandria VA.....	703-642-4000
Audel Precision Inc Beaverton OR.....	503-297-4837
Bruel & Kjaer Instruments Inc Marlboro MA.....	617-481-7000
Consultronics Ltd Concord ON.....	416-738-3741
Continental Resources Inc Bedford MA.....	617-275-0850
Digitex Industries Inc Ridgefield CT.....	203-438-3731
Dranzet Technologies Inc Edison NJ.....	201-287-3680
Frye Electronics Inc Tigard OR.....	800-547-8209
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Heath Co Benton Harbor MI.....	616-982-3200
Hewlett-Packard Palo Alto CA.....	415-857-8000
Krohn-Hite Corp Avon MA.....	617-580-1660
Leader Instruments Corp Hauppauge NY.....	516-231-6900
Leasametric Inc Foster City CA.....	415-574-4441
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ.....	201-934-9050
North Atlantic Industries Inc Hauppauge NY.....	516-582-6500
Nu Data Corp Little Silver NJ.....	201-842-5757
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
RE Instruments Corp Westlake OH.....	216-871-7617
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany.....	089-41290
Scientific-Atlanta Inc Atlanta GA.....	404-441-4000
Sound Technology Campbell CA.....	408-378-6540
T M Systems Inc Bridgeport CT.....	203-366-4571
Tucker Electronics Co Garland TX.....	214-348-8800
Wandel & Goltermann Inc	
Research Triangle Pk NC.....	919-544-8450

ANALYZERS—FLUTTER

Audel Precision Inc Beaverton OR.....	503-297-4837
Bruel & Kjaer Instruments Inc Marlboro MA.....	617-481-7000
Leader Instruments Corp Hauppauge NY.....	516-231-6900
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600

Reich Associates Inc Plano TX	214-424-7904
RE Instruments Corp Westlake OH	216-871-7617
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Wandel & Goltermann Inc	
Research Triangle Pk NC	919-544-8450

ANALYZERS—FREQUENCY RESPONSE

KAY ELEMETRICS CORP PINE BROOK NJ	201-227-2000
SUPERIOR ELECTRIC CO THE	
BRISTOL CT	203-582-9561
Amber Electro Design Inc Montreal PQ	514-735-4105
Audio Precision Inc Beaverton OR	503-297-4837
Bafco Inc Warminster PA	215-674-1700
Bruehl & Kjaer Instruments Inc Marlboro MA	617-481-7000
Consultronics Ltd Concord ON	416-738-3741
Cushman Electronics Inc San Jose CA	408-263-8100
Dowry RFL Instr Div Boonton NJ	201-334-3100
Engelhard Industries Iselin NJ	201-321-5900
Gen Rad Inc Waltham MA	617-369-4400
Hewlett-Packard Palo Alto CA	415-857-8000
Kay Elemetrics Corp Pine Brook NJ	201-227-2000
Kurz Instruments Inc Carmel Valley CA	408-659-3421
Leader Instruments Corp Hauppauge NY	516-231-6900
Leasametric Inc Foster City CA	415-574-4441
Ling Electronics Inc Anaheim CA	714-779-1900
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
North Atlantic Industries Inc Hauppauge NY	516-582-6500
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
RE Instruments Corp Westlake OH	216-871-7617
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Spectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA	619-268-7100
Superior Electric Co The Bristol CT	203-582-9561
Systems Research Labs Inc Dayton OH	513-426-8000
Techtron Elkhart IN	219-294-8300
Tektronix Inc Beaverton OR	800-547-6711
Venable Industries Inc Torrance CA	213-539-2522
Wandel & Goltermann Inc	
Research Triangle Pk NC	919-544-8450
Wavetek Indiana Inc Beech Grove IN	317-787-3332
Weinischel Engineering Co Inc	
Gaithersburg MD	301-948-3434
Willtron Co Morgan Hill CA	408-778-2000

ANALYZERS—GAS

See Gas Analyzers

ANALYZERS—HARMONIC

Amber Electro Design Inc Montreal PQ	514-735-4105
Audio Precision Inc Beaverton OR	503-297-4837
Bruehl & Kjaer Instruments Inc Marlboro MA	617-481-7000
Cushman Electronics Inc San Jose CA	408-263-8100
Data Check Corp San Diego CA	619-578-0101
Dranetz Technologies Inc Edison NJ	201-287-3680
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
Gen Rad Inc Waltham MA	617-369-4400
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Leader Instruments Corp Hauppauge NY	516-231-6900
North Atlantic Industries Inc Hauppauge NY	516-582-6500
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Polarad Electronics Inc Lake Success NY	516-328-1100
RE Instruments Corp Westlake OH	216-871-7617
Sound Technology Campbell CA	408-378-6540
Spectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA	619-268-7100
Wandel & Goltermann Inc	
Research Triangle Pk NC	919-544-8450

ANALYZERS—INFRARED

See Infrared Analyzers

ANALYZERS—INTERMODULATION

Amber Electro Design Inc Montreal PQ	514-735-4105
Audio Precision Inc Beaverton OR	503-297-4837
Bruehl & Kjaer Instruments Inc Marlboro MA	617-481-7000
Cushman Electronics Inc San Jose CA	408-263-8100
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Heath Co Benton Harbor MI	616-982-3200
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
RE Instruments Corp Westlake OH	216-871-7617
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Sound Technology Campbell CA	408-378-6540
Wandel & Goltermann Inc	
Research Triangle Pk NC	919-544-8450

ANALYZERS—LOGIC

CONNECTICUT MICROCOMPUTER INC	
NEW MILFORD CT	203-354-9395
INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA	818-991-9614
IWATSU INSTRUMENTS INC	
CARLSTADT NJ	201-935-5220
Advantest Corp Tokyo Japan	03-342-7500
Anascope Corp Wakefield MA	617-246-3300
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111

Applied Microsystems Corp Redmond WA	206-882-2000
AQ Systems Inc Yorktown Hts NY	914-962-4264
Array Analysis Inc Ithaca NY	607-257-6800
B & K Precision Products Dynascan Corp	
Chicago IL	312-889-9087
Connecticut microComputer Inc	
New Milford CT	203-354-9395
Dolch Logic Instruments Inc San Jose CA	408-945-1881
Electronics Warehouse Inc Old Lyme CT	203-434-9838
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Global Specialties Corp New Haven CT	203-624-3103
Gould Inc Design & Test Sys Div	
Santa Clara CA	408-988-6800
Hewlett-Packard Palo Alto CA	415-857-8000
Hilevel Technology Inc Irvine CA	714-752-5215
Intech Inc Instrument Div Santa Clara CA	408-727-0500
Interface Technology Glendora CA	818-914-2741
International Instrumentation Inc	
Westlake Village CA	818-991-9614
Iwatsu Instruments Inc Carlstadt NJ	201-935-5220
Leasametric Inc Foster City CA	415-574-4441
Micro Logic Corp Hackensack NJ	201-342-6518
National Instruments Austin TX	215-250-9119
Nicolet Paratronics Corp Fremont CA	415-490-8300
North American Soar Corp Cherry Hill NJ	609-488-1060
Northwest Instrument Systems Inc	
Beaverton OR	503-690-1300
OmniLogic Inc Renton WA	206-271-2000
Orion Instruments Redwood City CA	415-361-8883
Philips Test & Measuring Instruments Inc	
Mahwah NJ	201-529-3800
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Pro-Log Corp Monterey CA	408-372-4593
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Step Engineering Sunnyvale CA	408-733-7837
Tektronix Inc Beaverton OR	800-547-6711
Vaco Products Co Northbrook IL	312-564-3300
Yokogawa Corp Of America Shenandoah GA	404-253-7000
Zendex Corp Dublin CA	415-828-3000
Ziatech Corp San Luis Obispo CA	805-541-0488

ANALYZERS—NETWORK
(COMPONENT)

See Also Voltmeters—Vector

Advantest Corp Tokyo Japan	03-342-7500
Atlantic Research Corp Alexandria VA	703-642-4000
Bafco Inc Warminster PA	215-674-1700
Consultronics Ltd Concord ON	416-738-3741
Continental Resources Inc Bedford MA	617-275-0850
Digitech Industries Inc Ridgefield CT	203-438-3731
Dranetz Technologies Inc Edison NJ	201-287-3680
Dynatech Packet Tech Alexandria VA	703-642-9391
Dynatech Data Systems Springfield VA	703-569-9000
Electro Scientific Industries Inc Portland OR	503-641-4141
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Hewlett-Packard Palo Alto CA	415-857-8000
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
International Data Sciences Inc Lincoln RI	401-333-6200
Metatek Inc Minneapolis MN	612-786-8253
Nokia-Klinox Largo FL	813-541-6404
North Atlantic Industries Inc Hauppauge NY	516-582-6500
Polarad Electronics Inc Lake Success NY	516-328-1100
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Techtron Elkhart IN	219-294-8300
Tektronix Inc Beaverton OR	800-547-6711
Terradyne Inc Boston MA	617-482-2700
Wandel & Goltermann Inc	
Research Triangle Pk NC	919-544-8450
Wavetek Indiana Inc Beech Grove IN	317-787-3332
Wavetek Pacific Measurements Inc	
Sunnyvale CA	408-734-5780
Wide Band Engineering Co Inc Phoenix AZ	602-254-1570
Willtron Co Morgan Hill CA	408-778-2000

ANALYZERS—NOISE (EXCEPT RF
INTERFERENCE)

A P CIRCUIT CORP NEW YORK NY	212-737-1348
ELGENCE INC HURRICANE UT	801-635-4954
A P Circuit Corp New York NY	212-737-1348
Audio Precision Inc Beaverton OR	503-297-4837
Bearing Inspection Inc Santa Fe Springs CA	213-944-6251
Bruehl & Kjaer Instruments Inc Marlboro MA	617-481-7000
Consultronics Ltd Concord ON	416-738-3741
Convex Corp Washington DC	703-861-8900
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Electro-Optical Industries Inc	
Santa Barbara CA	805-964-6701
Elgence Inc Hurricane UT	801-635-4954
Epoch Enterprises Ltd Tucson AZ	602-887-1970
Gen Rad Inc Waltham MA	617-369-4400
Hewlett-Packard Palo Alto CA	415-857-8000
IRD Mechanicals Inc Columbus OH	614-885-5376
Metrosonics Inc Rochester NY	716-334-7300
Pacific Electron Corp Santa Ana CA	714-546-4405
Power Science Inc San Diego CA	619-292-4322
Schaffner EMC Inc Instrument Div Union NJ	201-851-0644
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Scott Instrument Labs Div AEC Corp	
Hudson NH	603-880-6300
Spectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA	619-268-7100
Tektronix Inc Beaverton OR	800-547-6711

ANALYZERS—NUCLEAR

See Nuclear Analysis Equipment

ANALYZERS—PARTICLE

See Particle Analyzers

ANALYZERS—PULSE

CHARACTERISTICS (EXCEPT
NUCLEAR)

GENERAL MICROWAVE CORP

AMITYVILLE NY	516-226-8900
Analogic Corp Peabody MA	617-532-5660
Bio Design Products Canton MA	617-828-1220
Data Precision Div Analogic Danvers MA	617-246-1600
Frye Electronics Inc Tigid OR	800-547-8209
General Microwave Corp Amityville NY	516-226-8900
Gould Inc Design & Test Sys Div	
Santa Clara CA	408-988-6800
Photodyne Inc Newbury Park CA	818-889-8770
Power Science Inc San Diego CA	619-292-4322
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Scientific Communications Inc Garland TX	214-840-4900
Spectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA	619-268-7100
Tektronix Inc Beaverton OR	800-547-6711
T M Systems Inc Bridgeport CT	203-366-4571

ANALYZERS—RF INTERFERENCE

Advantest Corp Tokyo Japan	03-342-7500
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Compliance Design Inc Boxborough MA	617-264-4668
Continental Resources Inc Bedford MA	617-275-0850
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Electro-Metrics Div Penril Corp	
Amsterdam NY	518-843-2600
Hewlett-Packard Palo Alto CA	415-857-8000
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Polarad Electronics Inc Lake Success NY	516-328-1100
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Schaffner EMC Inc Instrument Div Union NJ	201-851-0644
Tucker Electronics Co Garland TX	214-348-8800
Watkins-Johnson Co Palo Alto CA	415-493-4141

ANALYZERS—SERVO

See Servo Analyzers

ANALYZERS—SPECTRUM, A-F

A P CIRCUIT CORP NEW YORK NY	212-737-1348
KAY ELEMETRICS CORP PINE BROOK NJ	201-227-2000
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Advantest Corp Tokyo Japan	03-342-7500
Amber Electro Design Inc Montreal PQ	514-735-4105
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
A P Circuit Corp New York NY	212-737-1348
Audio Precision Inc Beaverton OR	503-297-4837
Bruehl & Kjaer Instruments Inc Marlboro MA	617-481-7000
Chadwick Helmutz Co Inc El Monte CA	213-575-6161
Coherent Inc Palo Alto CA	415-493-2111
Data Precision Div Analogic Danvers MA	617-246-1600
Gen Rad Inc Waltham MA	617-369-4400
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
IRD Mechanicals Inc Columbus OH	614-885-5376
Kay Elemetrics Corp Pine Brook NJ	201-227-2000
Leasametric Inc Foster City CA	415-574-4441
Ling Electronics Inc Anaheim CA	714-779-1900
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
Norland Corp Fort Atkinson WI	414-563-8456
North Atlantic Industries Inc Hauppauge NY	516-582-6500
Polarad Electronics Inc Lake Success NY	516-328-1100
Rockland Scientific Inc Rockleigh NJ	201-767-7900
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Sanders Associates Inc Nashua NH	603-885-4321
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Spectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA	619-268-7100
Techtron Elkhart IN	219-294-8300
Tektronix Inc Beaverton OR	800-547-6711
Wandel & Goltermann Inc	
Research Triangle Pk NC	919-544-8450

ANALYZERS—SPECTRUM, RF &
MICROWAVE

KAY ELEMETRICS CORP PINE BROOK NJ	201-227-2000
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Advantest Corp Tokyo Japan	03-342-7500
Anritsu America Inc Oakland NJ	201-337-1111
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Applied Research Inc Plainville NY	516-349-9200
Continental Resources Inc Bedford MA	617-275-0850
Cushman Electronics Inc San Jose CA	408-263-8100
Damon/Eltronics Div Westwood MA	617-329-2460
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Electro-Metrics Div Penril Corp	
Amsterdam NY	518-843-2600

Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hewlett-Packard Palo Alto CA	415-857-8000
Integra Microwave Santa Clara CA	408-727-9601
Jay Electrics Corp Pine Brook NJ	201-227-2000
Leasametric Inc Foster City CA	415-574-4441
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
Photodyne Inc Newbury Park CA	818-889-8770
Polarad Electronics Inc Lake Success NY	516-328-1100
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Sanders Associates Inc Nashua NH	603-885-4321
Spectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA	619-268-7100
Tektronix Inc Beaverton OR	800-547-6711
Texscan Corp Phoenix AZ	602-252-5021
Tucker Electronics Co Garland TX	214-348-8800
Wandel & Goltermann Inc	
Research Triangle Pk NC	919-544-8450

ANALYZERS—SURFACE

See Surface Analyzers

ANALYZERS—TEST SETS & CHECKOUT EQUIPMENT

See Test Listings

ANALYZERS—TORQUE

See Torque Analyzers

ANALYZERS—VIDEO

Anritsu America Inc Oakland NJ	201-337-1111
Colorado Video Inc Boulder CO	303-444-3972
Eastman Kodak Co Rochester NY	716-724-4000
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
Leader Instruments Corp Hauppauge NY	516-231-6900
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Sencore Inc Sioux Falls SD	605-339-0100
Tektronix Inc Beaverton OR	800-547-6711

ANALYZERS—WAVE

Analogic Corp Peabody MA	617-532-5660
Array Analysis Inc Ithaca NY	607-257-6800
Bruel & Kjaer Instruments Inc Marlboro MA	617-481-7000
Continental Resources Inc Bedford MA	617-275-0850
Cushman Electronics Inc San Jose CA	408-263-8100
Data Precision Div Analogic Danvers MA	617-246-1600
E-H Electronics Inc Fremont CA	415-651-2340
Electrac Inc Anaheim CA	714-879-6021
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hewlett-Packard Palo Alto CA	415-857-8000
IRD Mechanical Inc Columbus OH	614-885-5376
Leasametric Inc Foster City CA	415-574-4441
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Sencore Inc Sioux Falls SD	605-339-0100
Tektronix Inc Beaverton OR	800-547-6711
Tucker Electronics Co Garland TX	214-348-8800

ANNUNCIATORS—AURAL

OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	

Aircraft Instruments Co Doylestown PA	215-348-5274
Autocon Industries Inc St Paul MN	612-642-1784
Automatic Test Systems Malden MA	617-322-1107
Cincinnati Electro Systems Inc Loveland OH	513-831-4347
Cognitronics Corp Stamford CT	203-327-5307
Data Voice Corp Chicago IL	312-831-4488
Devco Engineering Inc Fairfield NJ	201-228-0321
Eaton Corp/MSC Products Costa Mesa CA	714-642-2427
Electro Space Systems Inc Richardson TX	214-783-2004
Grimes Div Midland Ross Corp Urbana OH	513-652-1431
Honeycomb Systems Inc Biddeford ME	207-282-1521
K C Industries Inc Cambridge NE	308-697-4711
Knowles Electronics Inc Franklin Park IL	312-455-3600
Malloy Capacitor Co Indianapolis IN	317-636-5353
Microvoice Systems Inc Laguna Hills CA	714-859-1091
Motorola Ceramic Products Albuquerque NM	505-822-8801
Mountain West Alarm Supply Co Phoenix AZ	602-263-8631
Omega Engineering Inc Stamford CT	203-359-1660
Parko Electronics Co Inc Irvine CA	714-660-8014
Puleo Electronics Inc Lynbrook NY	516-599-4875
Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
Sundstrand Data Control Inc Redmond WA	206-885-3711
US Controls Corp New Berlin WI	414-782-0340
Winland Electronics Inc Mankato MN	507-625-7231

ANNUNCIATORS—MECHANICAL

Aircraft Instruments Co Doylestown PA	215-348-5274
Bowmar Instrument Corp Ft Wayne Div	
Ft Wayne IN	219-747-3121

Devco Engineering Inc Fairfield NJ	201-228-0321
Entrelec Div Cogentel Inc Spring Valley NY	800-431-2308
Mountain West Alarm Supply Co Phoenix AZ	602-263-8631
Penn Keystone Corp Sub Unimax Switch	
Wallingford CT	203-269-8701
Show 'N Tell Products Div AMG Inc	
Dayton OH	513-223-8211
Staver Co Inc Bay Shore NY	516-666-8000

ANNUNCIATORS—VISUAL

Aerospace Avionics Inc Bohemia NY	516-467-5500
Aircraft Instruments Co Doylestown PA	215-348-5274
Autocon Industries Inc St Paul MN	612-642-1784
Automation Displays Inc Eau Claire WI	715-834-9595
B F Electronics Solana Beach CA	619-755-1881
Communications Equipment Co Inc	
Glen Arbor MI	616-334-3081
Continental Instruments Corp Westbury NY	516-334-0900
Dataprobe Inc Palisades Park NJ	201-947-9500
Daytronic Corp Miamisburg OH	513-866-3300
Devco Engineering Inc Fairfield NJ	201-228-0321
Eaton Corp/MSC Products Costa Mesa CA	714-642-2427
Electro Space Systems Inc Richardson TX	214-783-2004
Engineering Design Denver CO	303-427-1955
Enterprise Systems Corp Dover NH	603-742-7363
Entrelec Div Cogentel Inc Spring Valley NY	800-431-2308
Grimes Div Midland Ross Corp Urbana OH	513-652-1431
Honeycomb Systems Inc Biddeford ME	207-282-1521
K C Industries Inc Cambridge NE	308-697-4711
Kirkland Co Inc H R Arvada CO	303-422-6670
Korry Electronics Co Seattle WA	206-281-1300
Minelco Inc Sub Talley Industries	
Thomaston CT	203-283-8261
Panelarm Div Ametek Inc Skokie IL	312-675-2500
Penn Keystone Corp Sub Unimax Switch	
Wallingford CT	203-269-8701
Precision Digital Corp Watertown MA	617-924-2256
Puleo Electronics Inc Lynbrook NY	516-599-4875
Pyronics Inc Industrial Controls Div	
Cleveland OH	216-662-8800
Rauland-Borg Corp Chicago IL	312-267-1300
Rochester Instrument Systems Inc	
Rochester NY	716-263-7700
Show 'N Tell Products Div AMG Inc	
Dayton OH	513-223-8211
Simco/Ramic Corp Medford OR	503-776-9800
Staver Co Inc Bay Shore NY	516-666-8000
Strandberg Engineering Labs Inc	
Greensboro NC	919-274-3775
Telectro Systems Corp Corona NY	212-651-8900
Teledyne Microelectronics Los Angeles CA	213-870-9831
Touch-Plate International Inc Paramount CA	213-636-8171
Transicoll Inc Worcester PA	215-277-1300
Trans-Met Engineering Inc La Habra CA	213-691-2266
UCE Inc/Planar Graphics Div Norwalk CT	203-838-7509
Xoel Controls Inc Mishawaka IN	219-259-7804

ANODE CONNECTORS

See Connectors—Anode

ANODES

See Plating Anodes; Tube Parts

ANTENNA BEAM-STEERING NETWORKS

See Microwave Phased-Array Beam Steering

Networks

ANTENNA CONNECTORS

See Connectors—Antenna

ANTENNA COUPLERS—RADIO COMMUNICATIONS RECEIVERS (EXCEPT DIPLEXERS & DUPLEXERS)

Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Aiken Advanced Sys Div Amstar Tech Prods Inc	
Alexandria VA	703-370-0900
Alpha Industries Inc Woburn MA	617-935-5150
Antenna Specialists Inc E Syracuse NY	315-432-8909
Applied Research Inc Plainview NY	516-349-9200
Barker & Williams Bristol PA	215-788-5581
Comdel Inc Beverly MA	617-927-3144
Dayton Granger Inc Ft Lauderdale FL	305-463-3451
Decibel Products Inc Dallas TX	214-631-0310
Delta Electronics Inc Alexandria VA	703-354-3350
Dorne & Margolin Inc Bohemia NY	516-585-4000
Ecom Systems Inc Boca Raton FL	305-994-1774
Electro-Nav Inc Elizabeth NJ	201-527-0099
Electro Space Systems Inc Richardson TX	214-783-2004
General Aviation Electronics Inc	
Indianapolis IN	317-262-2000
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Hy-Gain Div Telex Commun Inc	
Minneapolis MN	612-884-4051
Intech Inc Santa Clara CA	408-727-0500
KDI Electronics Inc Whippany NJ	201-887-8100
LaPointe Industries Inc Rockville CT	203-872-8581
Lockheed-Georgia Co Marietta GA	404-424-4914
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000

Mobil Electronics Inc Anderson IN	317-642-7976
Moseley Associates Inc Goleta CA	805-968-9621
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
Olektron Corp Webster MA	617-943-7440
P G Electronics Ltd Weston ON	416-741-7682
Premier Microwave Corp Port Chester NY	914-939-8900
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Scientific Radio Systems Inc Rochester NY	716-458-3733
Sensor Systems Inc Chatsworth CA	818-341-5366
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Teledyne Microelectronics Los Angeles CA	213-870-9831
Tele Measurements Inc Clifton NJ	201-473-8822
Telex Communications Inc Minneapolis MN	612-884-4051
Tranco Products Inc Camarillo CA	805-987-2201
Watkins-Johnson Co Palo Alto CA	415-493-4141
Wide Band Engineering Co Inc Phoenix AZ	602-254-1570

ANTENNA COUPLERS—RADIO

TRANSMITTERS (EXCEPT DIPLEXERS & DUPLEXERS)

Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
Antenna Specialists Co Cleveland OH	216-791-7878
Applied Research Inc Plainview NY	516-349-9200
Communication Associates Inc	
Huntington Station NY	516-271-0800
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Dayton Granger Inc Ft Lauderdale FL	305-463-3451
Decibel Products Inc Dallas TX	214-631-0310
Delta Electronics Inc Alexandria VA	703-354-3350
Dielectric Commun Unit General Signal	
Raymond ME	207-655-4555
Electro Space Systems Inc Richardson TX	214-783-2004
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Intech Inc Santa Clara CA	408-727-0500
KDI Electronics Inc Whippany NJ	201-887-8100
LaPointe Industries Inc Rockville CT	203-872-8581
Lockheed-Georgia Co Marietta GA	404-424-4914
Lorch Electronics Corp Englewood NJ	201-569-8282
Nautical Electronic Labs Ltd	
Hacketts Cove NS	902-823-2233
Olektron Corp Webster MA	617-943-7440
Omega Laboratories Inc Rowley MA	617-948-7757
P G Electronics Ltd Weston ON	416-741-7682
Premier Microwave Corp Port Chester NY	914-939-8900
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Scientific Radio Systems Inc Rochester NY	716-458-3733
Sensor Systems Inc Chatsworth CA	818-341-5366
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Southern Avionics Co Beaumont TX	409-842-1717
Stoner Communications Inc	
Rancho Cucamonga CA	714-987-4624
Tranco Products Inc Camarillo CA	805-987-2201
Wide Band Engineering Co Inc Phoenix AZ	602-254-1570
Wincom Corp Woburn MA	617-935-6212

ANTENNA DIRECTIONAL COUPLERS

See Couplers—Directional

ANTENNA DUMMY LOADS

See Terminations

ANTENNA FEED SYSTEMS—MICROWAVE

RADIO-RESEARCH INSTRUMENT CO INC	
DANBURY CT	203-792-6666
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Adams-Russell Co Inc Amesbury MA	617-388-5210
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
Anaren Microwave Inc E Syracuse NY	315-432-8909
Andrew Corp Orlando Park IL	312-349-3300
Antennas for Communications Inc Ocala FL	904-687-4121
Bell Aerospace Tectron Div Buffalo NY	716-297-1000
Chu Associates Inc Littleton MA	617-456-3282
Dayton Granger Inc Ft Lauderdale FL	305-463-3451
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Eastern Microwave Corp Woburn MA	617-935-8600
Eaton Corp AIL Div Deer Park NY	516-595-5000
Gabriel Electronics Inc Scarborough ME	207-883-5161
Gamma-F Corp Torrance CA	213-539-6704
Harris Corp Govt Sys Sector Melbourne FL	305-727-0000
Hazeltine Corp Commack NY	516-462-5100
Lockheed-Georgia Co Marietta GA	404-424-4914
Loral TerraCom San Diego CA	619-278-4100
M/A-COM MDM Inc Chatsworth CA	818-700-8400
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
M/A-COM Omni Spectra Inc Merrimack NH	603-424-4111
Maury Microwave Corp Cucamonga CA	714-987-4715
Micro Mode Products Inc El Cajon CA	619-449-3844
Microwave Engineering Corp	
North Andover MA	617-885-2776
Nurad Inc Baltimore MD	301-462-1700
Omega Laboratories Inc Rowley MA	617-948-7757
Premier Microwave Corp Port Chester NY	914-939-8900
Radiation Systems Inc Sterling VA	703-450-5680
Radio-Research Instrument Co Inc	
Danbury CT	203-792-6666

Rockwell Intl Corp Commerical Elctns Opers	214-996-5000
Richardson TX	
Sanders Associates Inc Nashua NH	603-885-4321
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Sealectro Corp Trumbull CT	203-372-4118
Struthers Electronics Corp Farmingdale NY	516-420-9000
Teledyne Microelectronics Los Angeles CA	213-870-9831
Teledyne Microelectronics San Diego CA	619-583-3525
Tele Measurements Inc Clifton NJ	201-473-8822
TIW Systems Inc Sunnyvale CA	408-734-3900
Tranco Products Inc Camarillo CA	805-987-2201
Triangle Microwave Inc East Hanover NJ	201-684-1423
Vega Precision Labs Vienna VA	703-938-6300
Waveline Inc West Caldwell NJ	201-226-9100
Whittaker Corp Tasker Sys Div	
Simi Valley CA	805-584-8200
Wincom Corp Woburn MA	617-935-6212

ANTENNA FEED SYSTEMS—RADIO & TV TRANSMITTER

Andrew Corp Orland Park IL	312-349-3300
Budwig Mfg Co Ramona CA	619-789-0900
Comtech Antenna Corp St Cloud FL	305-892-6111
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Decibel Products Inc Dallas TX	214-631-0310
Dielectric Commun Unit General Signal	
Raymond ME	207-655-4555
Hazeltine Corp Commack NY	516-462-5100
Nurad Inc Baltimore MD	301-462-1700
Radiation Systems Inc Sterling VA	703-450-5680
RCA Broadcast Systems Gillsboro NJ	609-435-2800
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Scala Electronic Corp Medford OR	503-779-6500
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Sealectro Corp Trumbull CT	203-372-4118
Teledyne Microelectronics Los Angeles CA	213-870-9831
Tele Measurements Inc Clifton NJ	201-473-8822
Wincom Corp Woburn MA	617-935-6212

ANTENNA FILTERS

See Filters

ANTENNA HOUSINGS (EXCEPT RADOMES)

SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Alpha Industries Inc Woburn MA	617-935-5150
Chu Associates Inc Littleton MA	617-456-3282
Decibel Products Inc Dallas TX	214-631-0310
Dorne & Margolin Inc Bohemia NY	516-585-4000
Eastern Microwave Corp Woburn MA	617-935-8600
Eaton Corp AIL Div Deer Park NY	516-595-5000
LaPointe Industries Inc Rockville CT	203-872-8581
Lockheed-Georgia Co Marietta GA	404-424-4914
Miller Industries Inc R A Grand Haven MI	616-842-9450
Pylon-Tek Corp Littleton MA	617-456-8765
Sanders Associates Inc Nashua NH	603-885-4321
Sensor Systems Inc Chatsworth CA	818-341-5366
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682

ANTENNA INSULATORS

CERAMASEAL DIV CLEVEPAK CORP	
NEW LEBANON CENTER NY	518-794-7800
Alberox Corp New Bedford MA	617-995-1725
Barker & Williamson Bristol PA	215-788-5581
Budwig Mfg Co Ramona CA	619-789-0900
Celwae R F Marlboro NJ	201-462-1880
Ceramaseal Div Clevepak Corp	
New Lebanon Center NY	518-794-7800
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Dayton Granger Inc Ft Lauderdale FL	305-463-3451
Decibel Products Inc Dallas TX	214-631-0310
Hy-Gain Div Telex Commun Inc	
Minneapolis MN	612-884-4051
Isolatite Mfg Co Inc Stirling NJ	201-647-3333
Kulka Smith Inc Manasquan NJ	201-223-9400
Moseley Associates Inc Goleta CA	805-968-9621
Nitto Denko America Inc Port Washington NY	516-484-9700
Porcelain Products Co Carey OH	419-396-7621
Precision Paper Tube Co Wheeling IL	312-537-4250
Pylon-Tek Corp Littleton MA	617-456-8765
Star Porcelain Co Trenton NJ	609-392-3154
Telex Communications Inc Minneapolis MN	612-884-4051

ANTENNA LENSES

SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Alpha Industries Inc Woburn MA	617-935-5150
Corning Glass Works Tech Prods Div	
Corning NY	607-974-9000
Decibel Products Inc Dallas TX	214-631-0310
Eastern Microwave Corp Woburn MA	617-935-8600
Lockheed-Georgia Co Marietta GA	404-424-4914
Milliflect Inc Newark CA	415-791-5188
Nurad Inc Baltimore MD	301-462-1700
Pylon-Tek Corp Littleton MA	617-456-8765
Sanders Associates Inc Nashua NH	603-885-4321
Teledyne Microelectronics San Diego CA	619-583-3525
Whittaker Corp Tasker Sys Div	
Simi Valley CA	805-584-8200

ANTENNA LIGHTNING ARRESTERS

See Lightning Arresters

ANTENNA LOADING COILS

CADELL-BURNS MFG CO INC	
MINNEOLA NY	516-746-2310
CORD ELECTRONICS INC WESTBURY NY	516-935-3640
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Antenna Inc Inc Delwae Cleveland OH	216-464-7075
Antenna Specialists Co Cleveland OH	216-791-7878
Automatic Coil Corp Hialeah FL	305-883-5311
Barker & Williamson Bristol PA	215-788-5581
Bel-Tronics Corp Addison IL	312-543-7777
Caddell-Burns Mfg Co Inc Mineola NY	516-746-2310
Cordwell Condenser Corp Lindenhurst NY	516-957-7200
Celwae R F Marlboro NJ	201-462-1880
Coil Specialty Co State College PA	814-234-7044
Coil Winders Mineola NY	516-746-2310
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Cord Electronics Inc Westbury NY	516-935-3640
Decibel Products Inc Dallas TX	214-631-0310
Delta Electronics Inc Alexandria VA	703-354-3350
Hustler Inc Mineral Wells TX	817-325-1386
Hy-Gain Div Telex Commun Inc	
Minneapolis MN	612-884-4051
Lockheed-Georgia Co Marietta GA	404-424-4914
Magnetic Component Engineering Inc	
Culver City CA	213-398-4761
Nautical Electronic Labs Ltd	
Hacketts Cove NS	902-823-2233
Shokai Far East Ltd Hartsdale NY	914-681-0700
Telex Communications Inc Minneapolis MN	612-884-4051

ANTENNA MASTS

See Also Antenna Towers

SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Antenna Inc Div Celwae Cleveland OH	216-464-7075
Chu Associates Inc Littleton MA	617-456-3282
Compagnie Generale de Telecommunications Intl-cgti	
White Plains NY	914-949-3719
Compliance Design Inc Boxborough MA	617-264-4668
Dayton Granger Inc Ft Lauderdale FL	305-463-3451
Decibel Products Inc Dallas TX	214-631-0310
Delta Electronics Inc Alexandria VA	703-354-3350
Electrospase Systems Inc Richardson TX	214-783-2004
Gabriel Electronics Inc Scarborough ME	207-883-5161
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
GTE Govt Systems Western Div Mt View CA	415-966-2000
Hustler Inc Mineral Wells TX	817-325-1386
Hy-Gain Div Telex Commun Inc	
Minneapolis MN	612-884-4051
Lockheed-Georgia Co Marietta GA	404-424-4914
McVen Electronics Lab Red Bank NJ	201-741-1716
Microflect Co Inc Salem OR	503-363-9267
Miller Industries Inc R A Grand Haven MI	616-842-9450
Nurad Inc Baltimore MD	301-462-1700
Pylon-Tek Corp Littleton MA	617-456-8765
Radiation Systems Inc Sterling VA	703-450-5680
Schaffner EMC Inc Instrument Div Union NJ	201-851-0644
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sitco Antennas Portland OR	503-253-2000
Southern Avionics Co Beaumont TX	409-842-1717
Sterling Mfg Co Cleveland OH	216-781-7136
Tele Measurements Inc Clifton NJ	201-473-8822
Telex Communications Inc Minneapolis MN	612-884-4051
UNR-Rohn Peoria IL	309-697-4400

ANTENNA MOUNTS

RADIO-RESEARCH INSTRUMENT CO INC	
DANBURY CT	203-792-6666
Aeroflex Labs Inc Plainville NY	516-694-6700
Andrew Corp Orland Park IL	312-349-3300
Antenna Inc Div Celwae Cleveland OH	216-464-7075
Antennas for Communications Inc Ocala FL	904-687-4121
Carco Electronics Menlo Park CA	415-321-8174
Celwae R F Marlboro NJ	201-462-1880
Chu Associates Inc Littleton MA	617-456-3282
Compagnie Generale de Telecommunications Intl-cgti	
White Plains NY	914-949-3719
Comtech Antenna Corp St Cloud FL	305-892-6111
Decibel Products Inc Dallas TX	214-631-0310
Eastern Microwave Corp Woburn MA	617-935-8600
Electrospase Systems Inc Richardson TX	214-783-2004
Gabriel Electronics Inc Scarborough ME	207-883-5161
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Genave Inc Indianapolis IN	317-262-2000
General Defense Corp Systems Div	
Pinellas Park FL	813-541-6681
General Electric Co Ordnance Sys Div	
Pittsfield MA	413-494-3634
Hustler Inc Mineral Wells TX	817-325-1386
Kingston Metal Specialties Kingston PA	717-288-5411
LaPointe Industries Inc Rockville CT	203-872-8581
Lockheed-Georgia Co Marietta GA	404-424-4914
McVen Electronics Lab Red Bank NJ	201-741-1716
Microflect Co Inc Salem OR	503-363-9267
Milliflect Inc Newark CA	415-791-5188
Nurad Inc Baltimore MD	301-462-1700
Premux Products Div Chisholm-Ryder Co Inc	
Niagara Falls NY	716-285-9186
Radiation Systems Inc Sterling VA	703-450-5680
Radio-Research Instrument Co Inc	
Danbury CT	203-792-6666
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682

Sperry Corp Aerospace & Marine Group	602-869-2311
Phoenix AZ	
Teledyne Microelectronics San Diego CA	619-583-3525
UNR-Rohn Peoria IL	309-697-4400

ANTENNA PATTERN ANALYZERS

See Analyzers—Antenna Pattern

ANTENNA PHASING NETWORKS

See Networks—Phasing; Microwave Phased-Array

Beam-Steering Networks

ANTENNA POSITION INDICATORS

COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
RADIO-RESEARCH INSTRUMENT CO INC	
DANBURY CT	203-792-6666
Aircraft Instruments Co Doylestown PA	215-348-5274
Astrosystems Inc Lake Success NY	516-328-1600
C & A Products Inc New Milford CT	203-355-3164
Clifton Precision Litton Systems Inc	
Clifton Hts PA	215-622-1000
Computer Conversions Corp	
East Northport NY	516-261-3300
Control Sciences Inc Chatsworth CA	818-709-5510
Decibel Products Inc Dallas TX	214-631-0310
Eastern Microwave Corp Woburn MA	617-935-8600
Electrospase Systems Inc Richardson TX	214-783-2004
Gap Instrument Corp Smithtown NY	516-773-0909
Genave Inc Indianapolis IN	317-262-2000
Humphrey Inc San Diego CA	619-565-6631
Industrial Control Co Rockledge FL	305-599-7105
Interface Engineering Inc Stoughton MA	617-344-7383
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Lockheed-Georgia Co Marietta GA	404-424-4914
Metric Systems Corp Fort Walton Beach FL	904-244-9600
MPC Products Corp Skokie IL	312-673-8300
Natel Engineering Co Inc Simi Valley CA	805-581-3950
North Atlantic Industries Inc Hauppauge NY	516-582-6500
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Radio-Research Instrument Co Inc	
Danbury CT	203-792-6666
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Sequential Information Systems Inc	
Elmsford NY	914-592-5930
Sterling Mfg Co Cleveland OH	216-781-7136
TIW Systems Inc Sunnyvale CA	408-734-3900
Transcoil Inc Worcester PA	215-277-1300
Transmagnetics Inc Farmingdale NY	516-293-3100
Vernitech Div Vernitron Corp Deer Park NY	516-586-5100

ANTENNA RADOMES

See Radomes

ANTENNA REFLECTORS & DISHES (UNMOUNTED)

RADIO-RESEARCH INSTRUMENT CO INC	
DANBURY CT	203-792-6666
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Alpha Industries Inc Woburn MA	617-935-5150
Andrew Corp Orland Park IL	312-349-3300
Antennas for Communications Inc Ocala FL	904-687-4121
Blonder-Tongue Labs Inc Old Bridge NJ	201-679-4000
Chu Associates Inc Littleton MA	617-456-3282
Compagnie Generale de Telecommunications Intl-cgti	
White Plains NY	914-949-3719
Comtech Antenna Corp St Cloud FL	305-892-6111
Decibel Products Inc Dallas TX	214-631-0310
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Eastern Microwave Corp Woburn MA	617-935-8600
Electronic Space Systems Corp Concord MA	617-369-7200
Electronics Warehouse Inc Old Lyme CT	203-434-9838
Gabriel Electronics Inc Scarborough ME	207-883-5161
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Hughes Aircraft Co Microwave Prods Div	
Torrance CA	213-517-6400
Loral TerraCom San Diego CA	619-278-4100
M/A-COM MDM Inc Chatsworth CA	818-700-8400
Martel Electronics Inc Cleburne TX	817-645-9163
Microflect Co Inc Salem OR	503-363-9267
Milliflect Inc Newark CA	415-791-5188
Nurad Inc Baltimore MD	301-462-1700
Pylon-Tek Corp Littleton MA	617-456-8765
Radiation Systems Inc Sterling VA	703-450-5680
Radio-Research Instrument Co Inc	
Danbury CT	203-792-6666
Reynolds Metals Co Richmond VA	804-281-2000
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Sanders Associates Inc Nashua NH	603-885-4321
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Teledyne Microelectronics San Diego CA	619-583-3525
TIW Systems Inc Sunnyvale CA	408-734-3900
Vega Precision Labs Vienna VA	703-938-6300
Whittaker Corp Tasker Sys Div	
Simi Valley CA	805-584-8200
Xytec Plastics Inc Tacoma WA	206-582-0644

ANTENNA ROTARY JOINTS

See Rotary Joints

ANTENNA ROTATORS

PHILIPS ECG INC WALTHAM MA	617-890-6107
Blonder-Tongue Labs Inc Old Bridge NJ.....	201-679-4000
Carco Electronics Menlo Park CA.....	415-321-8174
Chu Associates Inc Littleton MA.....	617-456-3282
Comtech Antenna Corp St Cloud FL.....	305-892-6111
Dynetic Systems Corp Elk River MN.....	612-441-4300
Eastern Microwave Corp Woburn MA.....	617-935-8600
General Defense Corp Systems Div Pinellas Park FL.....	813-541-6681
Hy-Gain Div Telex Commun Inc Minneapolis MN.....	612-884-4051
Lockheed-Georgia Co Marietta GA.....	404-424-4914
Motion Science Inc San Jose CA.....	408-287-0300
MPC Products Corp Skokie IL.....	312-673-8300
Nurad Inc Baltimore MD.....	301-462-1700
Philips ECG Inc Waltham MA.....	617-890-6107
Sperry Corp Aerospace & Marine Group Phoenix AZ.....	602-869-2311
Tech Systems Corp Precise Power Div Thomaston CT.....	203-283-5801
Teledyne Micronetics San Diego CA.....	619-583-3525
Telex Communications Inc Minneapolis MN.....	612-884-4051
TIW Systems Inc Sunnyvale CA.....	408-734-3900
Whittaker Corp Tasker Sys Div Simi Valley CA.....	805-584-8200

ANTENNAS—BROADCAST RECEIVING, A-M, FM & TV

MG ELECTRONICS HAUPPAUGE NY	516-582-3400
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Aristo-Craft New York NY.....	212-924-4041
Blonder-Tongue Labs Inc Old Bridge NJ.....	201-679-4000
Cushcraft Corp Manchester NH.....	603-627-7877
Decibel Products Inc Dallas TX.....	214-631-0310
Electronics Warehouse Inc Old Lyme CT.....	203-434-9838
GC Electronics Div Household Int'l Rockford IL.....	815-968-9661
MG Electronics Hauppauge NY.....	516-582-3400
Mouser Electronics Mansfield TX.....	817-483-0165
Ora Electronics Div Alliance Rsch Corp Chatsworth CA.....	818-701-5848
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
Scala Electronic Corp Medford OR.....	503-779-6500
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Signals Communications Corp Manchester NH.....	603-669-0600
Sitco Antennas Portland OR.....	503-253-2000
Speco Div Components Specialties Inc Lindenhurst NY.....	516-957-8700
Stoner Communications Inc Rancho Cucamonga CA.....	714-987-4624
Television Labs Wauconda IL.....	312-763-3800
Video Industries Co Port Chester NY.....	914-939-4919
Winograd Co Burlington IA.....	319-753-0121
Winland Electronics Inc Mankato MN.....	507-625-7231
Workman Electronic Products Inc Sarasota FL.....	800-237-6666

ANTENNAS—BROADCAST TRANSMITTING, A-M, FM & TV

SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Andrew Corp Orland Park IL.....	312-349-3300
Celwave R F Marlboro NJ.....	201-462-1880
Cetec Antennas Div Cetec Corp Salemonto CA.....	916-383-1177
Compagnie Generale de Telecommunications Int'l White Plains NY.....	914-949-3719
Continental Electronics Div Varian Assoc Dallas TX.....	214-381-7161
Cushcraft Corp Manchester NH.....	603-627-7877
Decibel Products Inc Dallas TX.....	214-631-0310
Electric Commun Unit General Signal Raymond ME.....	207-655-4555
Nautical Electronic Labs Ltd Hacketts Cove NS.....	902-823-2233
Pan American Trade Development Corp New York NY.....	212-481-1800
RCA Broadcast Systems Gillsboro NJ.....	609-435-2800
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
Scala Electronic Corp Medford OR.....	503-779-6500
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Signals Communications Corp Manchester NH.....	603-669-0600

ANTENNAS—CATV MASTER ANTENNA

Andrew Corp Orland Park IL.....	312-349-3300
Cushcraft Corp Manchester NH.....	603-627-7877
Eastern Microwave Corp Woburn MA.....	617-935-8600
Nurad Inc Baltimore MD.....	301-462-1700
Radiation Systems Inc Sterling VA.....	703-450-5680
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
Scala Electronic Corp Medford OR.....	503-779-6500
Scientific-Atlanta Inc Atlanta GA.....	404-441-4000
Sitco Antennas Portland OR.....	503-253-2000
Winograd Co Burlington IA.....	319-753-0121

ANTENNAS—GROUND PLANE (EXCEPT AVIONIC)

Andrew Corp Orland Park IL.....	312-349-3300
Antenna Inc Div Celwave Cleveland OH.....	216-464-7075

Antenna Specialists Co Cleveland OH.....	216-791-7878
Ball Aerospace Systems Div Boulder CO.....	303-939-4000
Celwave R F Marlboro NJ.....	201-462-1880
Chu Associates Inc Littleton MA.....	617-456-3282
Cushcraft Corp Manchester NH.....	603-627-7877
Decibel Products Inc Dallas TX.....	214-631-0310
Eastern Microwave Corp Woburn MA.....	617-935-8600
Hustler Inc Mineral Wells TX.....	817-325-1386
Hy-Gain Div Telex Commun Inc Minneapolis MN.....	612-884-4051
Kreckman Co Herb Cresco PA.....	717-595-2212
Lockheed-Georgia Co Marietta GA.....	404-424-4914
Miller Industries Inc R A Grand Haven MI.....	616-842-9450
Premax Products Div Chisholm-Ryder Co Inc Niagara Falls NY.....	716-285-9186
Scala Electronic Corp Medford OR.....	503-779-6500
Signals Communications Corp Manchester NH.....	603-669-0600
Sinclair Radio Labs Inc Tonawanda NY.....	716-874-3682
Southern Avionics Co Beaumont TX.....	409-842-1717
Telex Communications Inc Minneapolis MN.....	612-884-4051
Watkins-Johnson Co Palo Alto CA.....	415-493-4141

ANTENNAS—INSTRUMENT LANDING AIDS GROUND EQUIPMENT

Alpha Industries Inc Woburn MA.....	617-935-5150
Andrew Corp Orland Park IL.....	312-349-3300
Ball Aerospace Systems Div Boulder CO.....	303-939-4000
Ball Aerospace Textron Div Buffalo NY.....	716-297-1000
Chu Associates Inc Littleton MA.....	617-456-3282
Dorne & Margolin Inc Bohemia NY.....	516-585-4000
Eastern Microwave Corp Woburn MA.....	617-935-8600
Eaton Corp AIL Div Deer Park NY.....	516-595-5000
Hazeltine Corp Commack NY.....	516-462-5100
Lockheed-Georgia Co Marietta GA.....	404-424-4914
Miller Industries Inc R A Grand Haven MI.....	616-842-9450
Nautical Electronic Labs Ltd Hacketts Cove NS.....	902-823-2233
Pylon-Tek Corp Littleton MA.....	617-456-8765
Radiation Systems Inc Sterling VA.....	703-450-5680
Southern Avionics Co Beaumont TX.....	409-842-1717
Struthers Electronics Corp Farmingdale NY.....	516-420-9000
Whittaker Corp Tasker Sys Div Simi Valley CA.....	805-584-8200

ANTENNAS—LOG PERIODIC (EXCEPT BROADCAST RECEIVING)

SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Amplifier Research Corp Souderton PA.....	215-729-3181
Andrew Corp Orland Park IL.....	312-349-3300
Ball Aerospace Systems Div Boulder CO.....	303-939-4000
Blonder-Tongue Labs Inc Old Bridge NJ.....	201-679-4000
Chu Associates Inc Littleton MA.....	617-456-3282
Diamond Antenna & Microwave Corp Winchester MA.....	617-729-5500
Dorne & Margolin Inc Bohemia NY.....	516-585-4000
Eastern Microwave Corp Woburn MA.....	617-935-8600
Eaton Corp AIL Div Deer Park NY.....	516-595-5000
Electrospan Systems Inc Richardson TX.....	214-783-2004
GTE Govt Systems Western Div Mt View CA.....	415-966-2000
Hy-Gain Div Telex Commun Inc Minneapolis MN.....	612-884-4051
Lockheed-Georgia Co Marietta GA.....	404-424-4914
Nurad Inc Baltimore MD.....	301-462-1700
Polarad Electronics Inc Lake Success NY.....	516-328-1100
Pylon-Tek Corp Littleton MA.....	617-456-8765
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
Sanders Associates Inc Nashua NH.....	603-885-4321
Scala Electronic Corp Medford OR.....	503-779-6500
Schaffner EMC Inc Instrument Div Union NJ.....	201-851-0644
Scientific-Atlanta Inc Atlanta GA.....	404-441-4000
Telex Communications Inc Minneapolis MN.....	612-884-4051
Vega Precision Labs Vienna VA.....	703-938-6300
Watkins-Johnson Co Palo Alto CA.....	415-493-4141

ANTENNAS, MICROWAVE—CAVITY BACKED SPIRALS, HELICES & SIMILAR TYPES

SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Alpha Industries Inc Woburn MA.....	617-935-5150
American Nucleonics Corp Westlake Vlg CA.....	805-496-2405
Andrew Corp Orland Park IL.....	312-349-3300
Ball Aerospace Systems Div Boulder CO.....	303-939-4000
Chu Associates Inc Littleton MA.....	617-456-3282
Diamond Antenna & Microwave Corp Winchester MA.....	617-729-5500
Dorne & Margolin Inc Bohemia NY.....	516-585-4000
Eastern Microwave Corp Woburn MA.....	617-935-8600
Eaton Corp AIL Div Deer Park NY.....	516-595-5000
Eaton Corp Elctn Inst Div Ronkonkoma NY.....	516-588-3800
GTE Govt Systems Western Div Mt View CA.....	415-966-2000
Hazeltine Corp Commack NY.....	516-462-5100
Miller Industries Inc R A Grand Haven MI.....	616-842-9450
Nurad Inc Baltimore MD.....	301-462-1700
Optifab Inc Phoenix AZ.....	602-271-0921
Premier Microwave Corp Port Chester NY.....	914-939-8900
Radiation Systems Inc Sterling VA.....	703-450-5680
Sanders Associates Inc Nashua NH.....	603-885-4321
Sperry Corp Aerospace & Marine Group Phoenix AZ.....	602-869-2311
Struthers Electronics Corp Farmingdale NY.....	516-420-9000
Teledyne Micronetics San Diego CA.....	619-583-3525
Transco Products Inc Camarillo CA.....	805-987-2201
Vega Precision Labs Vienna VA.....	703-938-6300
Watkins-Johnson Co Palo Alto CA.....	415-493-4141
Whittaker Corp Tasker Sys Div Simi Valley CA.....	805-584-8200

ANTENNAS, MICROWAVE—HORNS (MOUNTED)

RADIO-RESEARCH INSTRUMENT CO INC DANBURY CT	203-792-6666
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Adams-Russell Co Inc Amesbury MA.....	617-388-5210
Airtron Div Litton Systems Inc Morris Plains NJ.....	201-539-5500
Alpha Industries Inc Woburn MA.....	617-935-5150
American Nucleonics Corp Westlake Vlg CA.....	805-496-2405
Andrew Corp Orland Park IL.....	312-349-3300
Antennas for Communications Inc Ocala FL.....	904-687-4121
Chu Associates Inc Littleton MA.....	617-456-3282
Dayton Granger Inc Ft Lauderdale FL.....	305-463-3451
Diamond Antenna & Microwave Corp Winchester MA.....	617-729-5500
Dorne & Margolin Inc Bohemia NY.....	516-585-4000
Eastern Microwave Corp Woburn MA.....	617-935-8600
Eaton Corp AIL Div Deer Park NY.....	516-595-5000
Gabriel Electronics Inc Scarborough ME.....	207-883-5161
Gamma-F Corp Torrance CA.....	213-539-6704
Hazeltine Corp Commack NY.....	516-462-5100
Hughes Aircraft Co Microwave Prods Div Torrance CA.....	213-517-6400
Lockheed-Georgia Co Marietta GA.....	404-424-4914
Loral TerraCom San Diego CA.....	619-278-4100
Mauri Microwave Corp Cucamonga CA.....	714-987-4715
Microwave Development Labs Inc Natick MA.....	617-655-0060
Microwave Engineering Corp North Andover MA.....	617-685-2776
Miller Industries Inc R A Grand Haven MI.....	616-842-9450
Milliflect Inc Newark CA.....	415-791-5188
Nurad Inc Baltimore MD.....	301-462-1700
Omega Laboratories Inc Rowley MA.....	617-948-7757
Polarad Electronics Inc Lake Success NY.....	516-328-1100
Premier Microwave Corp Port Chester NY.....	914-939-8900
Radiation Systems Inc Sterling VA.....	703-450-5680
Radio-Research Instrument Co Inc Danbury CT.....	203-792-6666
Sanders Associates Inc Nashua NH.....	603-885-4321
Scientific-Atlanta Inc Atlanta GA.....	404-441-4000
Struthers Electronics Corp Farmingdale NY.....	516-420-9000
Teledyne Micronetics San Diego CA.....	619-583-3525
Transco Products Inc Camarillo CA.....	805-987-2201
Vega Precision Labs Vienna VA.....	703-938-6300
Victor Microwave Inc Wakefield MA.....	617-245-4472
Watkins-Johnson Co Palo Alto CA.....	415-493-4141
Waveline Inc West Caldwell NJ.....	201-226-9100
Whittaker Corp Tasker Sys Div Simi Valley CA.....	805-584-8200

ANTENNAS, MICROWAVE—PHASED ARRAYS

Ball Aerospace Systems Div Boulder CO.....	303-939-4000
Dorne & Margolin Inc Bohemia NY.....	516-585-4000
Harris Corp Govt Sys Sector Melbourne FL.....	305-727-4000
Hazeltine Corp Commack NY.....	516-462-5100
Microwave Applications Group Santa Maria CA.....	805-928-5711
Nurad Inc Baltimore MD.....	301-462-1700
Premier Microwave Corp Port Chester NY.....	914-939-8900
Pylon-Tek Corp Littleton MA.....	617-456-8765
Radiation Systems Inc Sterling VA.....	703-450-5680
Sperry Corp Aerospace & Marine Group Phoenix AZ.....	602-869-2311
Teledyne Micronetics San Diego CA.....	619-583-3525
Transco Products Inc Camarillo CA.....	805-987-2201

ANTENNAS, MICROWAVE—REFLECTOR-FEED

ALUMINUM DESIGN CORP BROOKFIELD IL	312-387-3100
RADIO-RESEARCH INSTRUMENT CO INC DANBURY CT	203-792-6666
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Alpha Industries Inc Woburn MA.....	617-935-5150
Aluminum Design Corp Brookfield IL.....	312-387-3100
American Nucleonics Corp Westlake Vlg CA.....	805-496-2405
Andrew Corp Orland Park IL.....	312-349-3300
Antennas for Communications Inc Ocala FL.....	904-687-4121
Ball Aerospace Systems Div Boulder CO.....	303-939-4000
Ball Aerospace Textron Div Buffalo NY.....	716-297-1000
Cablewave Sys Div Celwave Sys Inc North Haven CT.....	203-239-3311
Chu Associates Inc Littleton MA.....	617-456-3282
Diamond Antenna & Microwave Corp Winchester MA.....	617-729-5500
Dorne & Margolin Inc Bohemia NY.....	516-585-4000
Eastern Microwave Corp Woburn MA.....	617-935-8600
Eaton Corp AIL Div Deer Park NY.....	516-595-5000
Electronic Space Systems Corp Concord MA.....	617-369-7200
Electronics Warehouse Inc Old Lyme CT.....	203-434-9838
Gabriel Electronics Inc Scarborough ME.....	207-883-5161
Gamma-F Corp Torrance CA.....	213-539-6704
GTE Govt Systems Western Div Mt View CA.....	415-966-2000
Harris Corp Govt Sys Sector Melbourne FL.....	305-727-4000
Hazeltine Corp Commack NY.....	516-462-5100
Hughes Aircraft Co Microwave Prods Div Torrance CA.....	213-517-6400
Lockheed Electronics Co Inc Plainfield NJ.....	201-757-1060
Lockheed-Georgia Co Marietta GA.....	404-424-4914
Loral TerraCom San Diego CA.....	619-278-4100
M/A-COM MDM Inc Chatsworth CA.....	818-700-8400
Marti Electronics Inc Cleburne TX.....	817-645-9163
Microwave Applications Group Santa Maria CA.....	805-928-5711
Microwave Development Labs Inc Natick MA.....	617-655-0060
Microwave Engineering Corp North Andover MA.....	617-685-2776

Miller Industries Inc R A Grand Haven MI	616-842-9450
Milliflect Inc Newark CA	415-791-5188
Nurad Inc Baltimore MD	301-462-1700
Polarad Electronics Inc Lake Success NY	516-328-1100
Premier Microwave Corp Port Chester NY	914-939-8900
Pylon-Tek Corp Littleton MA	617-456-8765
Radiation Systems Inc Sterling VA	703-450-5680
Radio-Research Instrument Co Inc Danbury CT	203-792-6666
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Sanders Associates Inc Nashua NH	603-885-4321
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Teledyne Microtronics San Diego CA	619-583-3525
TIW Systems Inc Sunnyvale CA	408-734-3900
Vega Precision Labs Vienna VA	703-938-6300
Watkins-Johnson Co Palo Alto CA	415-493-4141
Whittaker Corp Tasker Sys Div Simi Valley CA	805-584-8200

ANTENNAS, RADIO COMMUNICATIONS—AVIONIC (INCL RADIONAVIGATION)

Antenna Specialists Co Cleveland OH	216-791-7878
Ball Aerospace Systems Div Boulder CO	303-939-4000
Dayton Granger Inc Ft Lauderdale FL	305-463-3451
Decibel Products Inc Dallas TX	214-631-0310
Dorne & Margolin Inc Bohemia NY	516-585-4000
Nautical Electronic Labs Ltd Hacketts Cove NS	902-823-2233
Pylon-Tek Corp Littleton MA	617-456-8765
Scala Electronic Corp Medford OR	503-779-6500
Tranco Products Inc Camarillo CA	805-987-2201
Watkins-Johnson Co Palo Alto CA	415-493-4141

ANTENNAS, RADIO COMMUNICATIONS—DIRECTION FINDER (EXCEPT AVIONIC)

Ball Aerospace Systems Div Boulder CO	303-939-4000
Chu Associates Inc Littleton MA	617-456-3282
Cushcraft Corp Manchester NH	603-627-7877
Dayton Granger Inc Ft Lauderdale FL	305-463-3451
Decibel Products Inc Dallas TX	214-631-0310
Dorne & Margolin Inc Bohemia NY	516-585-4000
Eaton Corp AIL Div Deer Park NY	516-595-5000
Electro-Nav Inc Elizabeth NJ	201-527-0099
Electrospac Systems Inc Richardson TX	214-783-2004
General Instrument Corp Govt Systems Div Hicksville NY	516-933-3408
LaPointe Industries Inc Rockville CT	203-872-8581
Lockheed-Georgia Co Marietta GA	404-424-4914
Miller Industries Inc R A Grand Haven MI	616-842-9450
Milliflect Inc Newark CA	415-791-5188
Palomar Engineers Escondido CA	619-747-3343
Pylon-Tek Corp Littleton MA	617-456-8765
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Signals Communications Corp Manchester NH	603-669-0600
Southern Avionics Co Beaumont TX	409-842-1717

ANTENNAS, RADIO COMMUNICATIONS—FIXED STATION, 2 MHZ & BELOW (INCL. LORAN)

SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Chu Associates Inc Littleton MA	617-456-3282
Compagnie Generale de Telecommunications Intl-cgtl White Plains NY	914-949-3719
Develco Inc San Jose CA	408-943-6600
Hy-Gain Div Telex Commun Inc Minneapolis MN	612-884-4051
Kinemetrix/True Time Santa Rosa CA	707-528-1230
LaPointe Industries Inc Rockville CT	203-872-8581
Miller Industries Inc R A Grand Haven MI	616-842-9450
Nautical Electronic Labs Ltd Hacketts Cove NS	902-823-2233
Palomar Engineers Escondido CA	619-747-3343
Premier Microwave Corp Port Chester NY	914-939-8900
Pylon-Tek Corp Littleton MA	617-456-8765
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Shokai Far East Ltd Hartsdale NY	914-681-0700
Southern Avionics Co Beaumont TX	409-842-1717
Spectracom Corp East Rochester NY	716-381-4827
Telex Communications Inc Minneapolis MN	612-884-4051

ANTENNAS, RADIO COMMUNICATIONS—FIXED STATION, 2 MHZ TO 54 MHZ

Andrew Corp Orland Park IL	312-349-3300
Antenna Inc Div Celwave Cleveland OH	216-464-7075
Antenna Specialists Co Cleveland OH	216-791-7878
Barker & Williamson Bristol PA	216-788-5581
Celwave R F Marlboro NJ	201-462-1880
Chu Associates Inc Littleton MA	617-456-3282
Compagnie Generale de Telecommunications Intl-cgtl White Plains NY	914-949-3719
Cushcraft Corp Manchester NH	603-627-7877
Decibel Products Inc Dallas TX	214-631-0310
Eaton Corp AIL Div Deer Park NY	516-595-5000
Harris Corp RF Commun Grp Rochester NY	716-244-5830

Hermes Electronics Ltd Dartmouth NS	902-466-7491
Hustler Inc Mineral Wells TX	817-325-1386
Hy-Gain Div Telex Commun Inc Minneapolis MN	612-884-4051
Kinemetrix/True Time Santa Rosa CA	707-528-1230
LaPointe Industries Inc Rockville CT	203-872-8581
Miller Industries Inc R A Grand Haven MI	616-842-9450
Premax Products Div Chisholm-Ryder Co Inc Niagara Falls NY	716-285-9186
Premier Microwave Corp Port Chester NY	914-939-8900
Pylon-Tek Corp Littleton MA	617-456-8765
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Scala Electronic Corp Medford OR	503-779-6500
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Signals Communications Corp Manchester NH	603-669-0600
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Stoner Communications Inc Rancho Cucamonga CA	714-987-4624
Telex Communications Inc Minneapolis MN	612-884-4051
Video Industries Co Port Chester NY	914-939-4919

ANTENNAS, RADIO COMMUNICATIONS—FIXED STATION, 54 MHZ THROUGH UHF RADIO

Accurate Electronics Corp Elyria OH	216-365-1211
Andrew Corp Orland Park IL	312-349-3300
Antenna Inc Div Celwave Cleveland OH	216-464-7075
Antenna Specialists Co Cleveland OH	216-791-7878
Aprlon Labs Inc Bloomington IN	812-336-4777
Celwave R F Marlboro NJ	201-462-1880
Chu Associates Inc Littleton MA	617-456-3282
Cushcraft Corp Manchester NH	603-627-7877
Decibel Products Inc Dallas TX	214-631-0310
Eastern Microwave Corp Woburn MA	617-935-8600
Genave Inc Indianapolis IN	317-262-2000
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Hustler Inc Mineral Wells TX	817-325-1386
Hy-Gain Div Telex Commun Inc Minneapolis MN	612-884-4051
Kinemetrix/True Time Santa Rosa CA	707-528-1230
Kreckman Co Herb Cresco PA	717-595-2212
Miller Industries Inc R A Grand Haven MI	616-842-9450
Moseley Associates Inc Goleta CA	805-968-9621
Pylon-Tek Corp Littleton MA	617-456-8765
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Scala Electronic Corp Medford OR	503-779-6500
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Signals Communications Corp Manchester NH	603-669-0600
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Sitco Antennas Portland OR	503-253-2000
Struthers Electronics Corp Farmingdale NY	516-420-9000
Telex Communications Inc Minneapolis MN	612-884-4051

ANTENNAS, RADIO COMMUNICATIONS—MARINE

SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Andrew Corp Orland Park IL	312-349-3300
Antenna Specialists Co Cleveland OH	216-791-7878
Celwave R F Marlboro NJ	201-462-1880
Chu Associates Inc Littleton MA	617-456-3282
Cushcraft Corp Manchester NH	603-627-7877
Dayton Granger Inc Ft Lauderdale FL	305-463-3451
Decibel Products Inc Dallas TX	214-631-0310
Delta Electronics Inc Alexandria VA	703-354-3350
Eastern Microwave Corp Woburn MA	617-935-8600
Eaton Corp AIL Div Deer Park NY	516-595-5000
Electro-Nav Inc Elizabeth NJ	201-527-0099
Genave Inc Indianapolis IN	317-262-2000
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Hustler Inc Mineral Wells TX	817-325-1386
Hy-Gain Div Telex Commun Inc Minneapolis MN	612-884-4051
Intech Inc Santa Clara CA	408-727-0500
Kreckman Co Herb Cresco PA	717-595-2212
LaPointe Industries Inc Rockville CT	203-872-8581
Miller Industries Inc R A Grand Haven MI	616-842-9450
Nautical Electronic Labs Ltd Hacketts Cove NS	902-823-2233
Pan American Trade Development Corp New York NY	212-481-1800
Premax Products Div Chisholm-Ryder Co Inc Niagara Falls NY	716-285-9186
Pylon-Tek Corp Littleton MA	617-456-8765
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Southern Avionics Co Beaumont TX	409-842-1717
Sperry Corp Aerospace & Marine Group Phoenix AZ	602-869-2311
Telex Communications Inc Minneapolis MN	612-884-4051

ANTENNAS, RADIO COMMUNICATIONS—MOBILE, TO 54 MHZ

Antenna Inc Div Celwave Cleveland OH	216-464-7075
Antenna Specialists Co Cleveland OH	216-791-7878
Barker & Williamson Bristol PA	215-788-5581
Celwave R F Marlboro NJ	201-462-1880
Chu Associates Inc Littleton MA	617-456-3282
Cushcraft Corp Manchester NH	603-627-7877
Decibel Products Inc Dallas TX	214-631-0310
Genave Inc Indianapolis IN	317-262-2000

General Aviation Electronics Inc Indianapolis IN	317-262-2000
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Hustler Inc Mineral Wells TX	817-325-1386
Hy-Gain Div Telex Commun Inc Minneapolis MN	612-884-4051
Magnetic Component Engineering Inc Culver City CA	213-398-4761
Miller Industries Inc R A Grand Haven MI	616-842-9450
Pylon-Tek Corp Littleton MA	617-456-8765
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Russell Industries Inc Oceanside NY	516-536-5000
Signals Communications Corp Manchester NH	603-669-0600
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Stoner Communications Inc Rancho Cucamonga CA	714-987-4624
Telex Communications Inc Minneapolis MN	612-884-4051
Workman Electronic Products Inc Sarasota FL	800-237-6666

ANTENNAS, RADIO COMMUNICATIONS—MOBILE, 54 MHZ THROUGH UHF RADIO

Accurate Electronics Corp Elyria OH	216-365-1211
Antenna Inc Div Celwave Cleveland OH	216-464-7075
Antenna Specialists Co Cleveland OH	216-791-7878
Celwave R F Marlboro NJ	201-462-1880
Chu Associates Inc Littleton MA	617-456-3282
Cushcraft Corp Manchester NH	603-627-7877
Dayton Granger Inc Ft Lauderdale FL	305-463-3451
Decibel Products Inc Dallas TX	214-631-0310
Dorne & Margolin Inc Bohemia NY	516-585-4000
Eastern Microwave Corp Woburn MA	617-935-8600
Genave Inc Indianapolis IN	317-262-2000
General Aviation Electronics Inc Indianapolis IN	317-262-2000
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Hustler Inc Mineral Wells TX	817-325-1386
Hy-Gain Div Telex Commun Inc Minneapolis MN	612-884-4051
Magnetic Component Engineering Inc Culver City CA	213-398-4761
Miller Industries Inc R A Grand Haven MI	616-842-9450
Pylon-Tek Corp Littleton MA	617-456-8765
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Scala Electronic Corp Medford OR	503-779-6500
Signals Communications Corp Manchester NH	603-669-0600
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Telex Communications Inc Minneapolis MN	612-884-4051

ANTENNAS, RADIO COMMUNICATIONS—TRACKING TELEMETRY TYPES (INCL. HELICAL & OTHER HIGHLY DIRECTIONAL)

Andrew Corp Orland Park IL	312-349-3300
Ball Aerospace Systems Div Boulder CO	303-939-4000
Chu Associates Inc Littleton MA	617-456-3282
Cubic Corp San Diego CA	619-277-6780
Cushcraft Corp Manchester NH	603-627-7877
Decibel Products Inc Dallas TX	214-631-0310
Dorne & Margolin Inc Bohemia NY	516-585-4000
Eastern Microwave Corp Woburn MA	617-935-8600
Electronic Space Systems Corp Concord MA	617-369-7200
Electrospac Systems Inc Richardson TX	214-783-2004
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Hazeltine Corp Commack NY	516-462-5100
Miller Industries Inc R A Grand Haven MI	616-842-9450
Milliflect Inc Newark CA	415-791-5188
Nurad Inc Baltimore MD	301-462-1700
Pylon-Tek Corp Littleton MA	617-456-8765
Radiation Systems Inc Sterling VA	703-450-5680
Scala Electronic Corp Medford OR	503-779-6500
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Signals Communications Corp Manchester NH	603-669-0600
Sperry Corp Aerospace & Marine Group Phoenix AZ	602-869-2311
TIW Systems Inc Sunnyvale CA	408-734-3900
Vega Precision Labs Vienna VA	703-938-6300
Whittaker Corp Tasker Sys Div Simi Valley CA	805-584-8200

ANTENNAS, RADIO COMMUNICATIONS—TROPOSCATTER (EXCEPT MICROWAVE)

Andrew Corp Orland Park IL	312-349-3300
Antennas for Communications Inc Ocala FL	904-687-4121
Compagnie Generale de Telecommunications Intl-cgtl White Plains NY	914-949-3719
Cushcraft Corp Manchester NH	603-627-7877
ITT Defense Communications Div Nutley NJ	201-284-0123
Miller Industries Inc R A Grand Haven MI	616-842-9450
Pylon-Tek Corp Littleton MA	617-456-8765
Radiation Systems Inc Sterling VA	703-450-5680
Sensor Systems Inc Chatsworth CA	818-341-5366
Signals Communications Corp Manchester NH	603-669-0600
Whittaker Corp Tasker Sys Div Simi Valley CA	805-584-8200

ANTENNAS—RADIOTELESCOPES

See Radiotelescopes

ANTENNA TENSION SPRINGS

See Springs

ANTENNA TOWERS

Aluma Tower Co Inc Vero Beach FL.....	305-567-3423
Andrew Corp Orlando Park IL.....	312-349-3300
Chu Associates Inc Littleton MA.....	617-456-3282
Compagnie Generale de Telecommunications Intl-cgti White Plains NY.....	914-949-3719
Electrospace Systems Inc Richardson TX.....	214-783-2004
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
GTE Govt Systems Western Div Mt View CA.....	415-966-2000
Hy-Gain Div Telex Commun Inc Minneapolis MN.....	612-884-4051
Meyer Industries Red Wing MN.....	715-792-2811
Microflect Co Inc Salem OR.....	503-363-9267
Pylon-Tek Corp Littleton MA.....	617-456-8765
Radiation Systems Inc Sterling VA.....	703-450-5680
Southern Avionics Co Beaumont TX.....	409-842-1717
Tele Communications Inc Minneapolis MN.....	612-884-4051
UNR-Rohn Peoria IL.....	309-697-4400
Up-Right Work Platforms Div Berkeley CA.....	415-843-0770

ANTENNA TOWER SERVICES

Andrew Corp Orlando Park IL.....	312-349-3300
Chu Associates Inc Littleton MA.....	617-456-3282
Compagnie Generale de Telecommunications Intl-cgti White Plains NY.....	914-949-3719
Electrospace Systems Inc Richardson TX.....	214-783-2004
Gabriel Electronics Inc Scarborough ME.....	207-883-5161
Kingston Metal Specialties Kingston PA.....	717-288-5411
Microflect Co Inc Salem OR.....	503-363-9267
Nurad Inc Baltimore MD.....	301-462-1700
UNR-Rohn Peoria IL.....	309-697-4400

ANTENNA TUNING UNITS

See Antenna Loading Coils

ANTENNA WIRE

See Wire—Antenna

ANTIMONIDES

See Semiconductors

ANTIMONY

See Metals—Low Melting

ANTISTATIC MATERIALS

See Chemicals; Coatings; Static Control Systems;
Testers & Test Systems

ARRESTERS

See Lightning Arresters; Surge Protectors

ARSENIDES

See Semiconductors

ARTWORK DIGITIZERS

See Digitizers

ARTWORK GENERATORS

See Photomask Pattern Generators

ASSEMBLY FIXTURES—CHASSIS

HOLDING

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
Abalon Precision Mfg Corp Bronx NY.....	212-589-5682
AEG Corporation Somerville NJ.....	201-722-9800
Electronic Tool Co Inc Pleasantville NY.....	914-769-8070
Fancort Industries Inc West Caldwell NJ.....	201-575-0610
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Matrix Engineering Corp Gardena CA.....	213-770-0521
Panavise Products Inc Long Beach CA.....	213-595-7621
Richco Plastic Co Chicago IL.....	312-539-4060
SMC Carbon Products Fairfield NJ.....	201-227-2432
Titchener & Co E H Binghamton NY.....	607-772-1161

For addresses, phones & sales offices, see green pages

ASSEMBLY FIXTURES—COMPONENT HOLDING

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA.....	818-991-9614
Accessories for Electronics Inc Baldwin NY.....	516-546-1751
AEG Corporation Somerville NJ.....	201-722-9800
Automated Production Concepts Inc Pompton Plains NJ.....	201-831-8300
Bivar Inc Irvine CA.....	714-951-8808
CELCO (Constantine Engineering Labs Co) Mahwah NJ.....	201-327-1123
Design Technology Corp Billerica MA.....	617-663-7000
Duramic Products Inc Palisades Park NJ.....	201-947-8313
Dynalox Inc Hanover NJ.....	201-887-9270
Electronic Tool Co Inc Pleasantville NY.....	914-769-8070
Fancort Industries Inc West Caldwell NJ.....	201-575-0610
High Speed Hammer Co Inc Rochester NY.....	716-266-6740
International Instrumentation Inc Westlake Village CA.....	818-991-9614
Jettison Products Inc East Hanover NJ.....	201-887-0571
Kurz Instruments Inc Carmel Valley CA.....	408-659-3421
Line-Master Products Lawndale CA.....	213-772-5255
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Matrix Engineering Corp Gardena CA.....	213-770-0521
Panavise Products Inc Long Beach CA.....	213-595-7621
Parsons Mfg Corp Menlo Park CA.....	415-324-4726
Richco Plastic Co Chicago IL.....	312-539-4060
SMC Carbon Products Fairfield NJ.....	201-227-2432
SPC Technology Bensenville IL.....	312-766-6711
Technology Glass Div Union City CA.....	415-487-5860
Titchener & Co E H Binghamton NY.....	607-772-1161
Unifab Inc Hampstead NH.....	603-329-8205
Unimation Inc Danbury CT.....	203-744-1800
Unitrack Div Calabro Industries Inc West Chester PA.....	215-692-0800
Zendex Corp Dublin CA.....	415-828-3000

ASSEMBLY FIXTURES—CONNECTOR HOLDING

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA.....	818-991-9614
SADA ELETTRONICA SPA PAVIA ITALY.....	382-4669 31
ADV PG 127.....	
AEG Corporation Somerville NJ.....	201-722-9800
Autosplice Inc Woodside NY.....	718-429-0500
Biddle Instruments-Sensitek Blue Bell PA.....	215-646-9200
Daniels Mfg Corp Orlando FL.....	305-855-6161
Fancort Industries Inc West Caldwell NJ.....	201-575-0610
Glenair Inc Glendale CA.....	818-247-6000
High Speed Hammer Co Inc Rochester NY.....	716-266-6740
International Instrumentation Inc Westlake Village CA.....	818-991-9614
Line-Master Products Lawndale CA.....	213-772-5255
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Matrix Engineering Corp Gardena CA.....	213-770-0521
Midland-Ross Corp Electronic Connector Div Cambridge MA.....	617-491-5400
Panduit Corp Tinley Park IL.....	312-532-1800
Rowe Industries Inc Toledo OH.....	419-729-9761
SADA Elettronica SpA Pavia Italy.....	382-4669 31
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Unitrack Div Calabro Industries Inc West Chester PA.....	215-692-0800

ASSEMBLY FIXTURES—PC BOARD HOLDING

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
MEA DIV UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY.....	607-772-7563
MICRO ELECTRONIC SYSTEMS INC BROOKFIELD CT.....	203-775-1440
UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY.....	607-775-1102
Accessories for Electronics Inc Baldwin NY.....	516-546-1751
AEG Corporation Somerville NJ.....	201-722-9800
Biddle Instruments-Sensitek Blue Bell PA.....	215-646-9200
Bivar Inc Irvine CA.....	714-951-8808
Calmark Corp San Gabriel CA.....	818-287-0451
Electronic Tool Co Inc Pleasantville NY.....	914-769-8070
Fancort Industries Inc West Caldwell NJ.....	201-575-0610
High Speed Hammer Co Inc Rochester NY.....	716-266-6740
Line-Master Products Lawndale CA.....	213-772-5255
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Matrix Engineering Corp Gardena CA.....	213-770-0521
MEA Div Universal Instruments Corp Binghamton NY.....	607-772-7563
Micro Electronic Systems Inc Brookfield CT.....	203-775-1440
Pace Inc Laurel MD.....	301-490-9860
Panavise Products Inc Long Beach CA.....	213-595-7621
Richco Plastic Co Chicago IL.....	312-539-4060
SPC Technology Bensenville IL.....	312-766-6711
Technical Devices Co Torrance CA.....	213-618-8437
Titchener & Co E H Binghamton NY.....	607-772-1161
Unifab Inc Hampstead NH.....	603-329-8205
Unitrack Div Calabro Industries Inc West Chester PA.....	215-692-0800
Universal Instruments Corp Binghamton NY.....	607-775-1102
Zehntel Inc Walnut Creek CA.....	415-946-0400
Zendex Corp Dublin CA.....	415-828-3000

ASSEMBLY HOODS

Air Control Inc Huntingdon Valley PA.....	215-322-5800
Clean Room Products Inc Ronkonkoma NY.....	516-588-7000
Craig Data Cable Co Inc Stamford CT.....	203-356-9315

Kewaunee Scientific Equip Corp Flex Furniture Div Plainville MI.....	616-685-6831
Projectapix II New York NY.....	212-765-7869
Zipper tubing Co Los Angeles CA.....	213-321-3901

ASSEMBLY SERVICES

See Production Services

ATOMIC CLOCKS

See Standards—Frequency

ATTENUATION METERS

See Meters—Attenuation

ATTENUATORS, A-F—PADS

ALCO ELECTRONIC PRODUCTS INC NORTH ANDOVER MA.....	617-685-4371
MALLORY COMPONENTS DIV EMHART INDIANAPOLIS IN.....	317-261-1361
MG ELECTRONICS HAUPPAUGE NY.....	516-582-3400
NORTHWEST MICROCIRCUITS INC CORVALLIS OR.....	503-753-8242
PICONICS INC TYNGSBORO MA.....	617-649-7501
SHALCO INC SMITHFIELD NC.....	919-934-3135
TECH LABORATORIES INC PALISADES PARK NJ.....	201-944-2221
Alan Industries Inc Columbus IN.....	812-372-8869
Alco Electronic Products Inc North Andover MA.....	617-685-4371
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Applied Research Inc Plainville NY.....	516-349-9200
Arra Inc Bay Shore NY.....	516-231-8400
Codeco Corp of Vermont Stowe VT.....	802-253-7649
CTS Corp Asheville Div Elkhart IN.....	219-293-7511
Elcom Systems Inc Boca Raton FL.....	305-994-1774
Electro-Voice Inc Sub Gulton Industries Buchanan MI.....	616-695-6831
Epitex Electronics Inc Ogdensburg NY.....	613-592-2240
Genstar Rental Electronics Inc Woodland Hills CA.....	818-887-4000
Grim Corp Medford NJ.....	609-267-7950
Hybrilronics Inc Niagara Falls NY.....	716-731-9080
Lorch Electronics Corp Englewood NJ.....	201-569-8282
Mallory Components Div Emhart Indianapolis IN.....	317-261-1361
Meca Electronics Inc Denville NJ.....	201-625-0661
Merrimac Industries Inc West Caldwell NJ.....	201-575-1300
MG Electronics Hauppauge NY.....	516-582-3400
Northwest Microcircuits Inc Corvallis OR.....	503-753-8242
Pasternack Enterprises Irvine CA.....	714-854-8500
Piconics Inc Tyngsboro MA.....	617-649-7501
Protech Audio Corp St James NY.....	516-584-5855
Shallco Inc Smithfield NC.....	919-934-3135
Soundlier Div Amer Trading Prod Corp St Louis MO.....	314-962-9870
Tech Laboratories Inc Palisades Park NJ.....	201-944-2221
Tektronix Inc Beaverton OR.....	800-547-6711
T M Systems Inc Bridgeport CT.....	203-366-4571
Venator Systems Inc San Jose CA.....	408-262-7788
Vermont Precision Resistor Co Stowe VT.....	802-253-8567
Weinschel Engineering Co Inc Gaithersburg MD.....	301-948-3434

ATTENUATORS, A-F—VARIABLE (A-F ONLY)

MALLORY COMPONENTS DIV EMHART INDIANAPOLIS IN.....	317-261-1361
NORTHWEST MICROCIRCUITS INC CORVALLIS OR.....	503-753-8242
SHALCO INC SMITHFIELD NC.....	919-934-3135
TECH LABORATORIES INC PALISADES PARK NJ.....	201-944-2221
Alan Industries Inc Columbus IN.....	812-372-8869
Arra Inc Bay Shore NY.....	516-231-8400
Genstar Rental Electronics Inc Woodland Hills CA.....	818-887-4000
Grim Corp Medford NJ.....	609-267-7950
Leader Instruments Corp Hauppauge NY.....	516-231-6900
Lorch Electronics Corp Englewood NJ.....	201-569-8282
Mallory Components Div Emhart Indianapolis IN.....	317-261-1361
Northwest Microcircuits Inc Corvallis OR.....	503-753-8242
Pifer International Corp Mt Prospect IL.....	312-640-8300
Protech Audio Corp St James NY.....	516-584-5855
Shallco Inc Smithfield NC.....	919-934-3135
Soundlier Div Amer Trading Prod Corp St Louis MO.....	314-962-9870
Tech Laboratories Inc Palisades Park NJ.....	201-944-2221
Waters Mfg Inc Wayland MA.....	617-358-2777
Weinschel Engineering Co Inc Gaithersburg MD.....	301-948-3434

ATTENUATORS, A-F-VOLTAGE-CONTROLLED

Analog Modules Inc Longwood FL.....	305-339-4356
Arra Inc Bay Shore NY.....	516-231-8400
Betronics Inc Lincolnwood IL.....	312-676-1747
EMC Technology Inc Cherry Hill NJ.....	609-429-7800
Industrial Computer Designs Inc Westlake Village CA.....	818-889-3179
Matrix Systems Corp Calabasas CA.....	818-992-6776
Merrimac Industries Inc West Caldwell NJ.....	201-575-1300
Protech Audio Corp St James NY.....	516-584-5855

For ADVERTISERS' CATALOGS see Directory of Catalogs (white pages)

ATTENUATORS—DECADE

SHALLCO INC SMITHFIELD NC	919-934-3135
TECH LABORATORIES INC	
PALISADES PARK NJ	201-944-2221
Alan Industries Inc Columbus IN.....	812-372-8869
Applied Research Inc Plainview NY.....	516-349-9200
Arra Inc Bay Shore NY.....	516-231-8400
Codeco Corp of Vermont Stowe VT.....	802-253-7649
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Hewlett-Packard Palo Alto CA.....	415-857-8000
Leasatronic Inc Foster City CA.....	415-574-4441
Meca Electronics Inc Denville NJ.....	201-625-0661
Midland-Ross Corp Electronic Connector Div	
Cambridge MA.....	617-491-5400
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany.....	089-41290
Shallco Inc Smithfield NC.....	919-934-3135
Tech Laboratories Inc Palisades Park NJ.....	201-944-2221
Telonic/Berkeley Laguna Beach CA.....	714-494-9401
Tucker Electronics Co Garland TX.....	214-348-8800
Venator Systems Inc San Jose CA.....	408-262-7788
Vermont Precision Resistor Co Stowe VT.....	802-253-8567
Wandel & Goltermann Inc	
Research Triangle Pk NC.....	919-544-8450
Wavetek Indiana Inc Beech Grove IN.....	317-787-3332

ATTENUATORS—I-F & A-F/I-F

KAY ELEMETRICS CORP PINE BROOK NJ	201-227-2000
ADV PG 29	
SHALLCO INC SMITHFIELD NC	919-934-3135
Adams-Russell Co Inc Anzac Div	
Burlington MA.....	617-273-3333
Alan Industries Inc Columbus IN.....	812-372-8869
Applied Research Inc Plainview NY.....	516-349-9200
Arra Inc Bay Shore NY.....	516-231-8400
Astrolab Inc Warren NJ.....	201-560-3800
Avantek Inc Santa Clara CA.....	408-496-6710
Codeco Corp of Vermont Stowe VT.....	802-253-7649
Daico Industries Inc Compton CA.....	213-631-1143
Eaton Corp Elctn Inst Div Ronkonkoma NY.....	516-588-3600
Elcom Systems Inc Boca Raton FL.....	305-994-1774
Ferrite Control Co Div Micon Inc Brick NJ.....	201-458-3333
Harris Corp Govt Support Sys Div	
Syosset NY.....	516-364-0400
Kay Elemetrics Corp Pine Brook NJ.....	201-227-2000
Lorch Electronics Corp Englewood NJ.....	201-569-8282
Magnetic Component Engineering Inc	
Culver City CA.....	213-398-4761
Meca Electronics Inc Denville NJ.....	201-625-0661
Merrimack Industries Inc West Caldwell NJ.....	201-575-1300
National Micronetics Inc Semi-Films Div	
West Hurley NY.....	914-338-7714
Pasternack Enterprises Irvine CA.....	714-854-8500
RHNG Electronics Lab Inc Deer Park NY.....	516-242-1100
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany.....	089-41290
Shallco Inc Smithfield NC.....	919-934-3135
Telonic/Berkeley Laguna Beach CA.....	714-494-9401
TRW Microwave Sunnyvale CA.....	408-732-0880
Vermont Precision Resistor Co Stowe VT.....	802-253-8567
Wandel & Goltermann Inc	
Research Triangle Pk NC.....	919-544-8450
Weinschel Engineering Co Inc	
Gaithersburg MD.....	301-948-3434

ATTENUATORS—LOGARITHMIC

GENERAL MICROWAVE CORP	
AMITYVILLE NY	516-226-8900
ADV PG 445	
NORTHWEST MICROCIRCUITS INC	
CORVALLIS OR	503-753-8242
SHALLCO INC SMITHFIELD NC	919-934-3135
Arra Inc Bay Shore NY.....	516-231-8400
General Microwave Corp Amityville NY.....	516-226-8900
Laboratory Products Inc Hyde Park MA.....	503-753-8242
Northwest Microcircuits Inc Corvallis OR.....	503-753-8242
Protech Audio Corp St James NY.....	516-584-5855
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany.....	089-41290
Shallco Inc Smithfield NC.....	919-934-3135
Soundlier Div Amer Trading Prod Corp	
St Louis MO.....	314-962-9870
TRW Microwave Sunnyvale CA.....	408-732-0880
Waters Mfg Inc Wayland MA.....	617-358-2777

ATTENUATORS—P-I-N DIODE

GENERAL MICROWAVE CORP	
AMITYVILLE NY	516-226-8900
ADV PG 445	
KAY ELEMETRICS CORP PINE BROOK NJ	201-227-2000
ADV PG 29	
Adams-Russell Co Inc Anzac Div	
Burlington MA.....	617-273-3333
Applied Research Inc Plainview NY.....	516-349-9200
Arra Inc Bay Shore NY.....	516-231-8400
Avantek Inc Santa Clara CA.....	408-496-6710
Daico Industries Inc Compton CA.....	213-631-1143
Diamond Antenna & Microwave Corp	
Winchester MA.....	617-729-5500
Eaton Corp Microwave Prods Div	
Sunnyvale CA.....	408-730-6300
EMC Technology Inc Cherry Hill NJ.....	609-429-7800
General Microwave Corp Amityville NY.....	516-226-8900
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Hewlett-Packard Palo Alto CA.....	415-857-8000
Hughes Aircraft Co Microwave Prods Div	
Torrance CA.....	213-517-6400

JFW Industries Inc Indianapolis IN.....	317-887-1340
Kay Elemetrics Corp Pine Brook NJ.....	201-227-2000
KDI Electronics Inc Whippary NJ.....	201-887-8100
Lorch Electronics Corp Englewood NJ.....	201-569-8282
M/A COM Microwave Circuits Inc	
Burlington MA.....	617-272-3000
M/A-COM Solid State Circuits Hudson NH.....	603-880-1911
Mauzy Microwave Corp Cucamonga CA.....	714-987-4715
Merrimack Industries Inc West Caldwell NJ.....	201-575-1300
Olektron Corp Webster MA.....	617-943-7440
RLC Electronics Inc Mt Kisco NY.....	914-241-1334
Tektron Micro Electronics Inc	
Linthicum Hts MD.....	301-850-4200
Triangle Microwave Inc East Hanover NJ.....	201-884-1423
TRW Microwave Sunnyvale CA.....	408-732-0880
Varian Electron Device Group Palo Alto CA.....	415-493-4000
Var-L Co Inc Denver CO.....	303-371-1560
Wiltron Co Morgan Hill CA.....	408-778-2000

ATTENUATORS, RF—FIXED (EXCEPT MICROWAVE)

BIRD ELECTRONIC CORP	
CLEVELAND (SOLON) OH	216-248-1200
PICONICS INC TYNGSBORO MA	617-649-7501
SHALLCO INC SMITHFIELD NC	919-934-3135
TECH LABORATORIES INC	
PALISADES PARK NJ	201-944-2221
TEST PROBES INC LA JOLLA CA	619-459-4197
TROMPETER ELECTRONICS INC	
WESTLAKE VILLAGE CA	818-707-2020
Alan Industries Inc Columbus IN.....	812-372-8869
Anasco Corp Wakefield MA.....	617-246-3300
Applied Research Inc Plainview NY.....	516-349-9200
Arra Inc Bay Shore NY.....	516-231-8400
Barth Electronics Boulder City NV.....	702-293-1576
Bird Electronic Corp Cleveland (Solon) OH.....	216-248-1200
Daven Components Grp Armtec Indus Inc	
Manchester NH.....	603-669-0940
Deposition Technology Inc San Diego CA.....	619-578-9400
Elcom Systems Inc Boca Raton FL.....	305-994-1774
Electro Impulse Lab Inc Red Bank NJ.....	201-741-0404
Ferrite Control Co Div Micon Inc Brick NJ.....	201-458-3333
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Harris Corp Govt Support Sys Div	
Syosset NY.....	516-364-0400
ITF Pomona Electronics Pomona CA.....	714-623-3463
JFW Industries Inc Indianapolis IN.....	317-887-1340
Kings Electronics Co Inc Tuckahoe NY.....	914-793-5000
Lorch Electronics Corp Englewood NJ.....	201-569-8282
M/A-COM Millimeter Products Inc	
Burlington MA.....	617-272-3000
Magnetic Component Engineering Inc	
Culver City CA.....	213-398-4761
Matec Instruments Inc Warwick RI.....	401-739-9030
Mauzy Microwave Corp Cucamonga CA.....	714-987-4715
Meca Electronics Inc Denville NJ.....	201-625-0661
Metropole Products Inc Stafford VA.....	703-659-2132
Mini-Circuits Lab Brooklyn NY.....	718-334-4500
Mini-Systems Inc No Attleboro MA.....	617-695-0203
Morris Enterprises Inc Sepulveda CA.....	213-894-9103
Mu-Del Electronics Inc Silver Spring MD.....	301-587-6087
The Narda Microwave Corp Hauppauge NY.....	516-231-1700
Pasternack Enterprises Irvine CA.....	714-854-8500
Piconics Inc Tyngsboro MA.....	617-649-7501
Premier Microwave Corp Port Chester NY.....	914-939-8900
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany.....	089-41290
Sealectro Corp Trumbull CT.....	203-372-4118
Shallco Inc Smithfield NC.....	919-934-3135
Tech Laboratories Inc Palisades Park NJ.....	201-944-2221
Test Probes Inc La Jolla CA.....	619-459-4197
Texscan Corp Phoenix AZ.....	602-252-5021
Trompeter Electronics Inc	
Westlake Village CA.....	818-707-2020
Tucker Electronics Co Garland TX.....	214-348-8800
Wandel & Goltermann Inc	
Research Triangle Pk NC.....	919-544-8450
Weinschel Engineering Co Inc	
Gaithersburg MD.....	301-948-3434

ATTENUATORS, RF—FIXED, MICROWAVE

ALUMINUM DESIGN CORP	
BROOKFIELD IL	312-387-3100
BIRD ELECTRONIC CORP	
CLEVELAND (SOLON) OH	216-248-1200
PICONICS INC TYNGSBORO MA	617-649-7501
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
TDK CORP TOKYO JAPAN	03-278-5111
Airtron Div Litton Systems Inc	
Morris Plains NJ.....	201-539-5500
Alan Industries Inc Columbus IN.....	812-372-8869
Alpha Industries Inc Woburn MA.....	617-935-5150
Aluminum Design Corp Brookfield IL.....	312-387-3100
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Applied Research Inc Plainview NY.....	516-349-9200
Arra Inc Bay Shore NY.....	516-231-8400
Astrolab Inc Warren NJ.....	201-560-3800
Barth Electronics Boulder City NV.....	702-293-1576
Bird Electronic Corp Cleveland (Solon) OH.....	216-248-1200
Codeco Corp of Vermont Stowe VT.....	802-253-7649
Coleman Microwave Co Edinburg VA.....	703-984-8848
Deposition Technology Inc San Diego CA.....	619-578-9400
Diamond Antenna & Microwave Corp	
Winchester MA.....	617-729-5500
Dielectric Commun Unit General Signal	
Raymond ME.....	207-655-4555
Eastern Microwave Corp Woburn MA.....	617-935-8600
Elcom Systems Inc Boca Raton FL.....	305-994-1774
EMC Technology Inc Cherry Hill NJ.....	609-429-7800
Ferrite Control Co Div Micon Inc Brick NJ.....	201-458-3333
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000

Harris Corp Govt Support Sys Div	
Syosset NY.....	516-364-0400
Hewlett-Packard Palo Alto CA.....	415-857-8000
Hirose Electric USA Inc Chatsworth CA.....	818-709-1247
Hughes Aircraft Co Microwave Prods Div	
Torrance CA.....	213-517-6400
JFW Industries Inc Indianapolis IN.....	317-887-1340
KDI Electronics Inc Whippary NJ.....	201-887-8100
Kings Electronics Co Inc Tuckahoe NY.....	914-793-5000
Leasatronic Inc Foster City CA.....	415-574-4441
Lorch Electronics Corp Englewood NJ.....	201-569-8282
M/A-COM Microwave Components Inc	
Burlington MA.....	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA.....	617-272-3000
M/A-COM Omni Spectra Inc Merrimack NH.....	603-424-4111
Mauzy Microwave Corp Cucamonga CA.....	714-987-4715
Meca Electronics Inc Denville NJ.....	201-625-0661
Merrimack Industries Inc West Caldwell NJ.....	201-575-1300
Metropole Products Inc Stafford VA.....	703-659-2132
Microwave Development Labs Inc Natick MA.....	617-655-0060
Microwave Engineering Corp	
North Andover MA.....	617-685-2776
Mini-Circuits Lab Brooklyn NY.....	718-334-4500
Morris Enterprises Inc Sepulveda CA.....	213-894-9103
Mu-Del Electronics Inc Silver Spring MD.....	301-587-6087
The Narda Microwave Corp Hauppauge NY.....	516-231-1700
Omega Laboratories Inc Rowley MA.....	617-948-7757
Pasternack Enterprises Irvine CA.....	714-854-8500
Piconics Inc Tyngsboro MA.....	617-649-7501
Premier Microwave Corp Port Chester NY.....	914-939-8900
RLC Electronics Inc Mt Kisco NY.....	914-241-1334
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany.....	089-41290
Sage Laboratories Inc Natick MA.....	617-655-0844
Sanders Associates Inc Nashua NH.....	603-885-4321
Sollitron Microwave Connector Div	
Port Salerno FL.....	305-287-5000
Struthers Electronics Corp Farmingdale NY.....	516-420-9000
TDK Corp Tokyo Japan.....	03-278-5111
Texscan Corp Phoenix AZ.....	602-252-5021
Triangle Microwave Inc East Hanover NJ.....	201-884-1423
Varian Electron Device Group Palo Alto CA.....	415-493-4000
Vermont Precision Resistor Co Stowe VT.....	802-253-8567
Victor Microwave Inc Wakefield MA.....	617-245-4472
VRN International St Petersburg FL.....	813-347-2181
Waveline Inc West Caldwell NJ.....	201-226-9100
Weinschel Engineering Co Inc	
Gaithersburg MD.....	301-948-3434

ATTENUATORS—RF—VARIABLE

CONCORD ELECTRONICS CORP	
NEW YORK NY	212-777-6571
GENERAL MICROWAVE CORP	
AMITYVILLE NY	516-226-8900
ADV PG 445	
KAY ELEMETRICS CORP PINE BROOK NJ	201-227-2000
ADV PG 29	
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
SHALLCO INC SMITHFIELD NC	919-934-3135
TECH LABORATORIES INC	
PALISADES PARK NJ	201-944-2221
TEST PROBES INC LA JOLLA CA	619-459-4197
Airtron Div Litton Systems Inc	
Morris Plains NJ.....	201-539-5500
Alan Industries Inc Columbus IN.....	812-372-8869
Alpha Industries Inc Woburn MA.....	617-935-5150
Anaren Microwave Inc E Syracuse NY.....	315-432-8909
Anasco Corp Wakefield MA.....	617-246-3300
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Applied Research Inc Plainview NY.....	516-349-9200
Arra Inc Bay Shore NY.....	516-231-8400
Astrolab Inc Warren NJ.....	201-560-3800
Blonder-Tongue Labs Inc Old Bridge NJ.....	201-679-4000
Codeco Corp of Vermont Stowe VT.....	802-253-7649
Coleman Microwave Co Edinburg VA.....	703-984-8848
Concord Electronics Corp New York NY.....	212-777-6571
Daico Industries Inc Compton CA.....	213-631-1143
Daven Components Grp Armtec Indus Inc	
Manchester NH.....	603-669-0940
Diamond Antenna & Microwave Corp	
Winchester MA.....	617-729-5500
Eaton Corp Elctn Inst Div Ronkonkoma NY.....	516-588-3600
Elcom Systems Inc Boca Raton FL.....	305-994-1774
EMC Technology Inc Cherry Hill NJ.....	609-429-7800
Ferrite Control Co Div Micon Inc Brick NJ.....	201-458-3333
General Microwave Corp Amityville NY.....	516-226-8900
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Harris Corp Govt Support Sys Div	
Syosset NY.....	516-364-0400
Hirose Electric USA Inc Chatsworth CA.....	818-709-1247
Hughes Aircraft Co Microwave Prods Div	
Torrance CA.....	213-517-6400
JFW Industries Inc Indianapolis IN.....	317-887-1340
Kay Elemetrics Corp Pine Brook NJ.....	201-227-2000
KDI Electronics Inc Whippary NJ.....	201-887-8100
Leader Instruments Corp Hauppauge NY.....	516-231-6900
Leasatronic Inc Foster City CA.....	415-574-4441
Lorch Electronics Corp Englewood NJ.....	201-569-8282
M/A-COM Microwave Circuits Inc	
Burlington MA.....	617-272-3000
M/A-COM Microwave Components Inc	
Burlington MA.....	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA.....	617-272-3000
M/A-COM Solid State Circuits Hudson NH.....	603-880-1911
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ.....	201-934-9050
Matrix Systems Corp Calabasas CA.....	818-992-6776
Mauzy Microwave Corp Cucamonga CA.....	714-987-4715
Meca Electronics Inc Denville NJ.....	201-625-0661
Merrimack Industries Inc West Caldwell NJ.....	201-575-1300
Microwave Development Labs Inc Natick MA.....	617-655-0060
Mini-Circuits Lab Brooklyn NY.....	718-334-4500
Mu-Del Electronics Inc Silver Spring MD.....	301-587-6087
The Narda Microwave Corp Hauppauge NY.....	516-231-1700

HIGH QUALITY ATTENUATORS!

Kay Elemetrics Corp offers a complete line of Programmable, Toggle Switch, Rotary and Continuously Variable attenuators. All Kay attenuators are equipped with precision, field replaceable resistors. Kay is able to produce durable toggle switch attenuators with superior specifications by using teflon, gold and silver components in our custom developed and in-house manufactured switches. Our Rotary attenuators use dual gold plated printed circuit contacts at each

connector for superior electrical contact.

If you don't see an attenuator that fits your requirements call us. Kay can design an attenuator to fit your specific OEM needs. We have designed over 250 different special attenuators in the past.

Please call or write to the address listed below for our complete attenuator catalog and price sheet. Our quantity discounts start as low as two (2) units!

OEM PROGRAMMABLE ATTENUATORS

- LOGIC ADAPTORS AVAILABLE

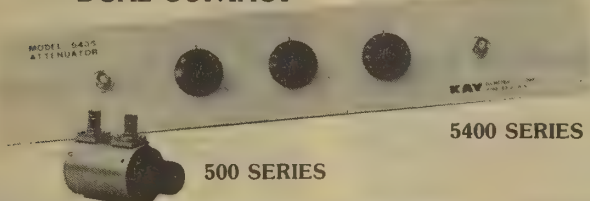


4000 SERIES

	IMP. Ω	MODEL	FREQ. RANGE	ATTEN. RANGE
	50	1/4450	DC- 1GHz	0-16.5dB in .1dB steps
	50	4460	DC- 1.5GHz	0-31dB in 1dB steps
New!	50	4480M	DC- 1.5GHz	0-63dB in 1dB steps
	50	4450	DC- 1.5GHz	0-127dB in 1dB steps
	50	4440	DC- 1.5GHz	0-130dB in 10dB steps
	75	1/4457	DC- 750MHz	0-16.5dB in .1dB steps
	75	4467	DC- 1GHz	0-31dB in 1dB steps
New!	75	4487M	DC- 1GHz	0-63dB in 1dB steps
	75	4457	DC- 1GHz	0-127dB in 1dB steps
	75	4447	DC- 1GHz	0-130dB in 10dB steps

OEM STEP ATTENUATORS

- HIGH RELIABILITY
- DUAL CONTACT



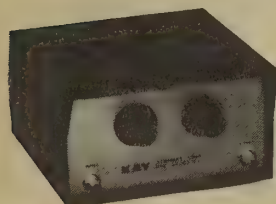
5400 SERIES

500 SERIES

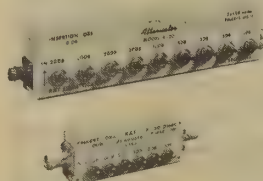
	IMP. Ω	MODEL	FREQ. RANGE	ATTEN. RANGE
	50	1/500	DC- 1GHz	0-1dB in .1dB steps
	50	500	DC- 2GHz	0-10dB in 1dB steps
	50	520	DC- 2GHz	0-70dB in 10dB steps
	75	1/510	DC- 500MHz	0-1dB in .1dB steps
	75	510	DC- 1.5GHz	0-10dB in 1dB steps
	75	530	DC- 1.5GHz	0-70dB in 10dB steps
	50	5436	DC- 2GHz	0-80dB in 1dB steps
	50	5435	DC- 1GHz	0-81dB in .1dB steps
	75	5446	DC- 1.5GHz	0-80dB in 1dB steps
	75	5445	DC- 1GHz	0-81dB in .1dB steps

BENCH STEP ATTENUATORS

- HIGH ACCURACY
- POSITIVE REPEATABILITY
- COMPACT DESIGN



5000, 5100 SERIES



400 SERIES

	IMP. Ω	MODEL	FREQ. RANGE	ATTEN. RANGE
	50	1/432	DC- 500MHz	0-22.1dB in .1dB steps
	50	1/439M	DC- 1GHz	0-22.1dB in .1dB steps
	50	431	DC- 1GHz	0-41dB in 1dB steps
	50	438M	DC- 1GHz	0-41dB in 1dB steps
	50	430	DC- 1GHz	10-51dB in 1dB steps
	50	432	DC- 1GHz	0-101dB in 1dB steps
	50	439M	DC- 1.5GHz	0-101dB in 1dB steps
	50	437M	DC- 1GHz	0-102.5dB in .5dB steps
	50	460M	DC- 1GHz	0-132dB in 1dB steps
	75	1/442	DC- 500MHz	0-22.1dB in .1dB steps
	75	1/449M	DC- 500MHz	0-22.1dB in .1dB steps
	75	441	DC- 1GHz	0-41dB in 1dB steps
	75	442	DC- 1GHz	0-101dB in 1dB steps
	75	449M	DC- 1GHz	0-101dB in 1dB steps
	75	447	DC- 1GHz	0-102.5dB in .5dB steps
	75	470M	DC- 1GHz	0-132dB in 1dB steps
	50	5150	DC- 2GHz	0-80dB in 1dB steps
	50	5050	DC- 1GHz	0-81dB in .1dB steps
	75	5175	DC- 1.5GHz	0-80dB in 1dB steps
	75	5075	DC- 1GHz	0-81dB in .1dB steps

*M-MINIATURE HOUSING

90 Ω ALSO AVAILABLE

CONTINUOUSLY VARIABLE ATTENUATORS



0/400, 0/410 SERIES

0/400 DC-500MHz 1-13dB
0/410 DC-400MHz 2-14dB

R.F. MEGA SWITCHES

- DC-1000 MHz
- LOW INDUCTANCE, CAPACITANCE & RESISTANCE



254 SERIES

0.15pf Between switch arms.
0.1pf Between open contacts
and switch arms.

KAY

TEL: (201) 227-2000, TWX: 710-734-4347
Kay Elemetrics Corp, 12 Maple Ave. Pine Brook, NJ 07058-9797

Olektron Corp Webster MA	617-943-7440
Omega Laboratories Inc Rowley MA	617-948-7757
Premier Microwave Corp Port Chester NY	914-939-8900
Racal-Dana Instruments Inc Irvine CA	714-859-8999
RHG Electronics Lab Inc Deer Park NY	516-242-1100
RLC Electronics Inc Mt Kisco NY	914-241-1334
Sanders Associates Inc Nashua NH	603-885-4321
Shallco Inc Smithfield NC	919-934-3135
Struthers Electronics Corp Farmingdale NY	516-420-9000
Tech Laboratories Inc Palisades Park NJ	201-944-2221
Telonic/Berkeley Laguna Beach CA	714-494-9401
Test Probes Inc La Jolla CA	619-459-4917
Texscan Corp Phoenix AZ	602-252-5021
Tucker Electronics Co Garland TX	214-348-8800
United Mineral & Chemical Corp	
New York NY	212-966-4330
Vermont Precision Resistor Co Stowe VT	802-253-8567
Victor Microwave Inc Wakefield MA	617-245-4472
VRN International St Petersburg FL	813-347-2181
Wandel & Goltermann Inc	
Research Triangle Pk NC	919-544-8450
Wavelec Inc West Caldwell NJ	201-226-9100
Wavetek Indiana Inc Beech Grove IN	317-887-3332
Weinschel Engineering Co Inc	
Gaithersburg MD	301-948-3434
Wiltron Co Morgan Hill CA	408-778-2000

ATTENUATORS-RF—VOLTAGE CONTROLLED

GENERAL MICROWAVE CORP	
AMITYVILLE NY	516-226-8900
ADV PG 445	
KAY ELEMETRICS CORP PINE BROOK NJ	201-227-2000
ADV PG 29	
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Alpha Industries Inc Woburn MA	617-935-5150
Anaren Microwave Inc E Syracuse NY	315-432-8909
Applied Research Inc Plainview NY	516-349-9200
Arra Inc Bay Shore NY	516-231-8400
Avantek Inc Santa Clara CA	408-496-6710
Aydin Vector Div Newtown PA	215-968-4271
Control Concepts Corp Binghamton NY	607-724-2484
Daico Industries Inc Compton CA	213-631-1143
Elcom Systems Inc Boca Raton FL	305-994-1774
EMC Technology Inc Cherry Hill NJ	609-429-7800
Ferrite Control Co Div Micon Inc Brick NJ	201-458-3333
General Microwave Corp Amityville NY	516-226-8900
Hirose Electric USA Inc Chatsworth CA	818-709-1247
JFW Industries Inc Indianapolis IN	317-887-1340
Kay Elemetrics Corp Pine Brook NJ	201-227-2000
KDI Electronics Inc Whippary NJ	201-887-8100
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA	617-272-3000
M/A COM Omni Spectra Inc Merrimack NH	603-424-4111
M/A-COM Solid State Circuits Hudson NH	603-880-1911
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
Matrix Systems Corp Calabasas CA	818-992-6776
Merrimack Industries Inc West Caldwell NJ	201-575-1300
Mini-Circuits Lab Brooklyn NY	718-934-4500
The Narda Microwave Corp Hauppauge NY	516-231-1700
Olektron Corp Webster MA	617-943-7440
Premier Microwave Corp Port Chester NY	914-939-8900
RHG Electronics Lab Inc Deer Park NY	516-242-1100
RLC Electronics Inc Mt Kisco NY	914-241-1334
Sanders Associates Inc Nashua NH	603-885-4321
Tektron Micro Electronics Inc	
Linthicum Hts MD	301-850-4200
Telonic/Berkeley Laguna Beach CA	714-494-9401
Triangle Microwave Inc East Hanover NJ	201-884-1423
TRW Microwave Sunnyvale CA	408-732-0880
Varian Electron Device Group Palo Alto CA	415-493-4000
Vari-L Co Inc Denver CO	303-371-1560
Wiltron Co Morgan Hill CA	408-778-2000

ATTENUATORS—TELEVISION

ALCO ELECTRONIC PRODUCTS INC	
NORTH ANDOVER MA	617-685-4371
GENERAL MICROWAVE CORP	
AMITYVILLE NY	516-226-8900
ADV PG 445	
TECH LABORATORIES INC	
PALISADES PARK NJ	201-944-2221
Alco Electronic Products Inc	
North Andover MA	617-685-4371
Arra Inc Bay Shore NY	516-231-8400
Blonder-Tongue Labs Inc Old Bridge NJ	201-679-4000
Elcom Systems Inc Boca Raton FL	305-994-1774
General Microwave Corp Amityville NY	516-226-8900
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Tech Laboratories Inc Palisades Park NJ	201-944-2221
Tektronix Inc Beaverton OR	800-547-6711
Telonic/Berkeley Laguna Beach CA	714-494-9401

ATTENUATORS—TURRET

KAY ELEMETRICS CORP PINE BROOK NJ	201-227-2000
ADV PG 29	
TECH LABORATORIES INC	
PALISADES PARK NJ	201-944-2221
Alan Industries Inc Columbus IN	812-372-8869
Arra Inc Bay Shore NY	516-231-8400
Codeco Corp of Vermont Stowe VT	802-253-7649

JFW Industries Inc Indianapolis IN	317-887-1340
Kay Elemetrics Corp Pine Brook NJ	201-227-2000
Lorch Electronics Corp Englewood NJ	201-569-8282
Meca Electronics Inc Denville NJ	201-625-0661
The Narda Microwave Corp Hauppauge NY	516-231-1700
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Tech Laboratories Inc Palisades Park NJ	201-944-2221
Telonic/Berkeley Laguna Beach CA	714-494-9401
Vermont Precision Resistor Co Stowe VT	802-253-8567
Wavetek Indiana Inc Beech Grove IN	317-887-3332
Weinschel Engineering Co Inc	
Gaithersburg MD	301-948-3434

ATTENUATORS—VIDEO (EXCEPT TELEVISION)

ALCO ELECTRONIC PRODUCTS INC	
NORTH ANDOVER MA	617-685-4371
SHALLCO INC SMITHFIELD NC	919-934-3135
TECH LABORATORIES INC	
PALISADES PARK NJ	201-944-2221
Alan Industries Inc Columbus IN	812-372-8869
Alco Electronic Products Inc	
North Andover MA	617-685-4371
Applied Research Inc Plainview NY	516-349-9200
Arra Inc Bay Shore NY	516-231-8400
Elcom Systems Inc Boca Raton FL	305-994-1774
Lorch Electronics Corp Englewood NJ	201-569-8282
Matrix Systems Corp Calabasas CA	818-992-6776
Merrimack Industries Inc West Caldwell NJ	201-575-1300
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Shallco Inc Smithfield NC	919-934-3135
Tech Laboratories Inc Palisades Park NJ	201-944-2221
Telonic/Berkeley Laguna Beach CA	714-494-9401

AUDIO EQUIPMENT

See Audio Systems

See Also A-F Equipment List

AUDIOMETERS

INTERELECTRONICS CORP CONGRERS NY	914-358-8000
Ameco Electronics Irwindale CA	213-358-2573
Bruehl & Kjaer Instruments Inc Marlboro MA	617-481-7000
Dixon Inc Grand Junction CO	303-242-8863
Eckstein Bros Inc Hawthorne CA	213-772-6113
Frye Electronics Inc Tigard OR	800-547-8209
Interelectronics Corp Congers NY	914-358-8000
Malco Hearing Instruments Co	
Minneapolis MN	612-835-4400
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Teledyne Avionics Charlottesville VA	804-973-3311
Tracor Inc Austin TX	512-929-2051

AUDIO SYSTEMS—PUBLIC ADDRESS & THEATER

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Alaun Engineering Montrose CA	818-957-0618
Applied Electro Mechanics Inc Alexandria VA	703-370-0510
Argos Products Co Inc Genoa IL	815-784-5118
Atlas Sound Div Amer Trading & Prod Corp	
Parsippany NJ	201-887-7800
Bogen Div Lear Siegler Inc Paramus NJ	201-343-5700
Cetec Raymer North Hollywood CA	213-875-0423
Communications Equipment Co Inc	
Glen Arbor MI	616-334-3081
Control Electronics Co Inc Farmingdale NY	516-694-0125
Electro-Voice Inc Sub Gulton Industries	
Buchanan MI	616-695-6831
Frazier Inc Dallas TX	214-241-3441
Gai-Tronics Corp Reading PA	215-777-1374
Lake Systems Corp Newton MA	617-244-6881
Lear Siegler Inc Santa Monica CA	213-452-5444
Modular Devices Inc Bohemia NY	516-567-9620
Paso Sound Products Inc Pelham NY	914-738-4800
Perma Power Electronics Inc Chicago IL	312-647-9414
Precision Electronics Inc Franklin Park IL	312-678-3222
Protech Audio Corp St James NY	516-584-5855
Rauland-Borg Corp Chicago IL	312-267-1300
Shure Brothers Inc Evanston IL	312-866-2200
Speco Div Components Specialties Inc	
Lindenhurst NY	516-957-8700
Tape-A-Thon Corp Englewood CA	213-676-6752
Telex Communications Inc Minneapolis MN	612-884-4051

AVIONICS

See Aircraft Listings

BACKWARD-WAVE TUBES

See Tubes—Microwave

BADGE READERS

See Readers—Badge

BALLAST TUBES

See Tubes—Ballast

BALUNS

See Also Transformers—Matching

CADDELL-BURNS MFG CO INC	
MINEOLA NY	516-746-2310
CADDELL COIL CORP POULTNEY VT	802-287-4055
CORD ELECTRONICS INC WESTBURY NY	516-935-3640
TDK CORP TOKYO JAPAN	03-278-5111
THOMSON COMPONENTS MOSTEK CORP PASSIVE COMPS DIV WOODLAND HILLS CA	818-887-1010
T T E INC LOS ANGELES CA	213-478-8224
Barker & Williamson Bristol PA	215-788-5581
Barth Electronics Boulder City NV	702-293-1576
Blonder-Tongue Labs Inc Old Bridge NJ	201-679-4000
Caddell-Burns Mfg Co Inc Mineola NY	516-746-2310
Caddell Coil Corp Poultny VT	802-287-4055
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Coil-Q Corp Bronxville NY	914-337-4775
Coil Specialty Co State College PA	814-234-7044
Coil Winders Mineola NY	516-746-2310
Cord Electronics Inc Westbury NY	516-935-3640
Cramer Coil & Transformer Co Inc	
Saukville WI	414-284-9425
Cushcraft Corp Manchester NH	603-627-7877
Custom Coils Inc Alcester SD	605-934-2460
Eastern Microwave Corp Woburn MA	617-935-8600
Electro Impulse Lab Inc Red Bank NJ	201-741-0404
Ferronics Inc Fairport NY	716-223-1010
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
GKD Electronics Santa Ana CA	714-261-2271
Gowanda Electronics Corp Gowanda NY	716-532-2234
Magnetic Component Engineering Inc	
Culver City CA	213-398-4761
Magnetico Inc Holtsville NY	516-654-1166
National Moldite Co Newark NJ	201-589-6860
National Radio Components Div Strux Corp	
Lindenhurst NY	516-957-8000
North Hills Electronics Inc Glen Cove NY	516-671-5700
Olektron Corp Webster MA	617-943-7440
Palomar Engineers Escondido CA	619-747-3343
Philmore Mfg Co Inc Inwood NY	516-239-6161
Pulse Engineering Sub Varian San Diego CA	619-268-4000
Signals Communications Corp Manchester NH	603-669-0600
Sitco Antennas Portland OR	503-253-2000
The Stackpole Corp Elctn Components Div	
St Marys PA	814-781-1234
Steward Mfg Co D M Chattanooga TN	615-867-4100
TDK Corp Tokyo Japan	03-278-5111
Technitrol Inc Philadelphia PA	215-426-9105
Telonic/Berkeley Laguna Beach CA	714-494-9401
Thomson Components Mostek Corp Passive Comps Div	
Woodland Hills CA	818-887-1010
Tranco Products Inc Camarillo CA	805-987-2201
T T E Inc Los Angeles CA	213-478-8224
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

BAROGRAPHS

See Also Generators—Bar

Belfort Instrument Co Baltimore MD	301-342-2626
Dixon Inc Grand Junction CO	303-242-8863
Ennercorp Instruments Ltd Islington ON	416-231-5335
Epic Inc New York NY	212-349-2470
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Taylor Scientific Instruments Arden NC	704-684-8111
Triplet Corp/A Penril Div Bluffton OH	419-358-5015

BAROMETERS

SETRA SYSTEMS INC ACTON MA	617-263-1400
Air-A-Plane Corp Norfolk VA	804-622-5761
Airguide Instrument Co Chicago IL	312-486-3000
Belfort Instrument Co Baltimore MD	301-342-2626
Ennercorp Instruments Ltd Islington ON	416-231-5335
Epic Inc New York NY	212-349-2470
Gilmont Instruments Inc Great Neck NY	516-487-0120
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
MKS Instruments Inc Burlington MA	617-272-9255
Pace Transducer Co Div Cj Instr Inc	
Tarzana CA	818-996-4131
Princo Instruments Inc Southampton PA	215-355-1500
Sargent-Welch Scientific Co Skokie IL	312-677-0600
Setra Systems Inc Acton MA	617-263-1400
Taylor Scientific Instruments Arden NC	704-684-8111
Wallace & Tiernan Div Pennwalt Corp	
Belleville NJ	201-759-8000

BARIUM

See Metals—Alkaline

BARIUM TITANATE

See Crystals—Piezoelectric; Titanates

BAROMETRIC SWITCHES

See Switches—Barometric

BARRETTES

See Microwave Bolometers

BARS—BUS

See Bus Bar Systems

BASES

See Package Parts; Tube Parts

BATHS—CONTROLLED TEMPERATURE

BLUE M UNIT OF GENERAL SIGNAL	
BLUE ISLAND IL	312-385-9000
ADV PG 84	
CINCINNATI SUB-ZERO PRODUCTS INC	
CINCINNATI OH	513-772-8810
ADV PG 85	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
TENNEY ENGINEERING INC UNION NJ	201-686-7870
ADV PG 84	
Andonlan Cryogenics Inc Newtonville MA	617-969-8010
Automatic Test Systems Malden MA	617-322-1107
Blue M Unit of General Signal Blue Island IL	312-385-9000
Cincinnati Sub-Zero Products Inc	
Cincinnati OH	513-772-8810
Corning Glass Works Science Products	
Corning NY	607-737-1667
Custom Scientific Instruments Inc	
Cedar Knolls NJ	201-538-8500
Forma Scientific Div Mallinckrodt Inc	
Marietta OH	614-373-4763
FTS Systems Inc Stone Ridge NY	914-687-7664
GCA/Instruments & Equip Group Chicago IL	312-227-2660
Guidline Instruments Inc Orlando FL	305-423-8215
Harrel Inc East Norwalk CT	203-866-2573
Hotpack Corp Philadelphia PA	215-824-1700
Interlab Inc Danbury CT	203-748-5624
Jersey Technical Electronics Inc Middlesex NJ	201-469-8160
Lab-Line Instruments Inc Melrose Park IL	312-450-2600
Marlow Industries Inc Garland TX	214-494-2521
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
Omega Engineering Inc Stamford CT	203-359-1660
Products for Research Inc Danvers MA	617-774-3250
Pure Aire Corp Canoga Pk CA	818-998-3876
Ransco Industries Inc Oxnard CA	805-487-7777
Sargent-Welch Scientific Co Skokie IL	312-677-0600
Sta-Warm Electric Co Inc Ravenna OH	216-296-6461
Tenney Engineering Inc Union NJ	201-686-7870
Thermotron Industries Holland MI	616-392-1492

BATTERIES—ALARM & EMERGENCY LIGHTING

POWER-SONIC CORP REDWOOD CITY CA	415-364-5001
ADV PG 35	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
TAUBER ELECTRONICS INC	
SAN DIEGO CA	619-274-7242
ADV PGS 32, 33	
TNR TECHNICAL INC DEER PARK NY	516-242-4800
ADV PG 31	
Altus Corp San Jose CA	408-295-1300
Bright Star Industries Inc Clifton NJ	201-772-3200
Elpower Corp Santa Ana CA	714-540-6155
Hydrocap Corp Miami FL	305-696-2504
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA	818-781-0505
Pan American Trade Development Corp	
New York NY	212-481-1800
Plainview Electronics Corp Plainview NY	516-249-6677
Power-Sonic Corp Redwood City CA	415-364-5001
Rayovac Corp Madison WI	608-275-3340
Sager Hingham MA	617-749-6700
Sanyo Electric Inc Little Ferry NJ	201-641-2333
Sonnenschein Batteries Inc Cheshire CT	203-271-0091
Tauber Electronics Inc San Diego CA	619-274-7242
TNR Technical Inc Deer Park NY	516-242-4800
Yuasa Battery America Inc	
Santa Fe Springs CA	213-949-4266

BATTERIES—ATOMIC

See Batteries—Nuclear

BATTERIES—CARBON ZINC

BATTERY SPECIALTIES LONG BEACH CA	213-437-1809
ADV PG 31	
EVEREADY BATTERY CO INC	
DANBURY CT	203-794-2000
ADV PG 36	
PANASONIC INDUSTRIAL CO BATTERY SALES DIV	
SECAUCUS NJ	201-348-5266
ADV PG 33	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TAUBER ELECTRONICS INC	
SAN DIEGO CA	619-274-7242
ADV PGS 32, 33	
TNR TECHNICAL INC DEER PARK NY	516-242-4800
ADV PG 31	
Battery Specialties Long Beach CA	213-437-1809
Bright Star Industries Inc Clifton NJ	201-772-3200
Eveready Battery Co Inc Danbury CT	203-794-2000
Mountain West Alarm Supply Co Phoenix AZ	602-263-8831
Multipier Industries Corp Mt Vernon NY	914-699-0990
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA	818-781-0505
Pan American Trade Development Corp	
New York NY	212-481-1800

Panasonic Industrial Co Battery Sales Div	
Secaucus NJ	201-348-5266
Plainview Electronics Corp Plainview NY	516-249-6677
Polaroid Corp Cambridge MA	617-577-2000
Polaroid Corp Commercial Battery Div	
Cambridge MA	617-577-2237
Power Group International Richfield MN	612-890-1360
Rayovac Corp Madison WI	608-275-3340
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Tauber Electronics Inc San Diego CA	619-274-7242
Telecommunication Devices Inc	
Downers Grove IL	312-971-3460
TNR Technical Inc Deer Park NY	516-242-4800
Varta Batteries Inc Elmsford NY	914-592-2500
Wonder Corp of America Norwalk CT	203-866-3033

BATTERIES—DRY

BATTERY SPECIALTIES LONG BEACH CA	213-437-1809
ADV PG 31	
EVEREADY BATTERY CO INC	
DANBURY CT	203-794-2000
ADV PG 36	
GATES ENERGY PRODUCTS INC	
DENVER CO	303-744-4806
ADV PG 32	
PANASONIC INDUSTRIAL CO BATTERY SALES DIV	
SECAUCUS NJ	201-348-5266
ADV PG 33	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
ADV PG 32	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TAUBER ELECTRONICS INC	
SAN DIEGO CA	619-274-7242
ADV PGS 32, 33	
TNR TECHNICAL INC DEER PARK NY	516-242-4800
ADV PG 31	
ACR Electronics Inc Ft Lauderdale FL	305-981-3333
Battery Specialties Long Beach CA	213-437-1809
Bright Star Industries Inc Clifton NJ	201-772-3200
Catalyst Research Baltimore MD	301-296-7000
Cushcraft Corp Manchester NH	603-627-7677
Eagle-Picher Industries Inc Electronics Div	
Joplin MO	417-623-8000
Eveready Battery Co Inc Danbury CT	203-794-2000
Gates Energy Products Inc Denver CO	303-744-4806
Mountain West Alarm Supply Co Phoenix AZ	602-263-8831
Multipier Industries Corp Mt Vernon NY	914-699-0990
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA	818-781-0505
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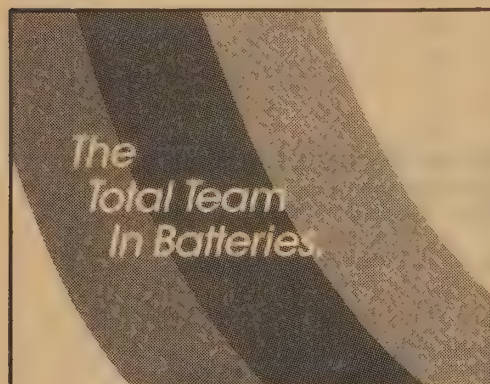
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DANBURY CT 203-794-2000
ADV PG 36
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Sager Hingham MA 617-749-6700
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ELECTRIC SWITCHES INC
LOS ANGELES CA 213-660-1310
ADV PGS 434,435
GATES ENERGY PRODUCTS INC
DENVER CO 303-744-4806
ADV PG 32
PANASONIC INDUSTRIAL CO BATTERY SALES DIV
SECAUCUS NJ 201-348-5266
ADV PG 33
POWER-SONIC CORP REDWOOD CITY CA 415-364-5001
ADV PG 35
SAGER HINGHAM MA 617-749-6700
ADV PGS Green Pages/Footstrips
SHELLEY-RAGON INC ST PAUL MN 612-542-2828
ADV PG 32
SHOKAI FAR EAST LTD HARTSDALE NY 914-681-0700
TAUBER ELECTRONICS INC
SAN DIEGO CA 619-274-7242
ADV PGS 32,33
TNR TECHNICAL INC DEER PARK NY 516-242-4800
ADV PG 31
Accudyne Corp Janesville WI 608-752-9081
Altus Corp San Jose CA 408-295-1300
Eagle-Picher Industries Inc Electronics Div
Joplin MO 417-623-8000
Electric Switches Inc Los Angeles CA 213-660-1310
Elpower Corp Santa Ana CA 714-540-6155
Gates Energy Products Inc Denver CO 303-744-4806
Globe-Union Inc Milwaukee WI 414-228-1200
Hydrocap Corp Miami FL 305-696-2504
Pan American Trade Development Corp
New York NY 212-481-1800
Panasonic Industrial Co Battery Sales Div
Secaucus NJ 201-348-5266
Plainview Electronics Corp Plainview NY 516-249-6677
Power-Sonic Corp Redwood City CA 415-364-5001
Safit America Inc Valdosta GA 912-247-2331
Sager Hingham MA 617-749-6700
Shelley-Ragon Inc St Paul MN 612-542-2828
Shokai Far East Ltd Hartsdale NY 914-681-0700
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Tauber Electronics Inc San Diego CA 619-274-7242
Telecommunication Devices Inc
Downers Grove IL 312-971-3460
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DENVER CO 303-744-4806
ADV PG 32
PANASONIC INDUSTRIAL CO BATTERY SALES DIV
SECAUCUS NJ 201-348-5266
ADV PG 33
POWER-SONIC CORP REDWOOD CITY CA 415-364-5001
ADV PG 35
SHELLEY-RAGON INC ST PAUL MN 612-542-2828
ADV PG 32
SHOKAI FAR EAST LTD HARTSDALE NY 914-681-0700
TNR TECHNICAL INC DEER PARK NY 516-242-4800
ADV PG 31
Eagle-Picher Industries Inc Electronics Div
Joplin MO 417-623-8000
Elpower Corp Santa Ana CA 714-540-6155
Gates Energy Products Inc Denver CO 303-744-4806
Hydrocap Corp Miami FL 305-696-2504
Nesco Battery Sys Div Natl Electro-Sales Corp
Van Nuys CA 818-781-0505
Panasonic Industrial Co Battery Sales Div
Secaucus NJ 201-348-5266
Power Group International Richfield MN 612-890-1360
Power-Sonic Corp Redwood City CA 415-364-5001
Shelley-Ragon Inc St Paul MN 612-542-2828
Shokai Far East Ltd Hartsdale NY 914-681-0700
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ALMO ELECTRONICS INC
PHILADELPHIA PA 215-698-4000
ADV PG Green Pages
BATTERY SPECIALTIES LONG BEACH CA 213-437-1809
ADV PG 31
MOUSER ELECTRONICS MANSFIELD TX 817-483-0165
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SECAUCUS NJ 201-348-5266
ADV PG 33
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ADV PG 35
SAGER HINGHAM MA 617-749-6700
ADV PGS Green Pages/Footstrips
TAUBER ELECTRONICS INC
SAN DIEGO CA 619-274-7242
ADV PGS 32,33
TNR TECHNICAL INC DEER PARK NY 516-242-4800
ADV PG 31
Almo Electronics Inc Philadelphia PA 215-698-4000
Altus Corp San Jose CA 408-295-1300
Aristo-Craft New York NY 212-924-4041
Battery Specialties Long Beach CA 213-437-1809
Cushcraft Corp Manchester NH 603-627-7877
Dynatech Computer Power Inc
Scotts Valley CA 800-638-9098
Eagle-Picher Industries Inc Electronics Div
Joplin MO 417-623-8000
Elpower Corp Santa Ana CA 714-540-6155
Mountain West Alarm Supply Co Phoenix AZ 602-253-8831
Mouser Electronics Mansfield TX 817-483-0165
Nesco Battery Sys Div Natl Electro-Sales Corp
Van Nuys CA 818-781-0505
Pan American Trade Development Corp
New York NY 212-481-1800
Panasonic Industrial Co Battery Sales Div
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Plainview Electronics Corp Plainview NY 516-249-6677
Power Group International Richfield MN 612-890-1360
Power-Sonic Corp Redwood City CA 415-364-5001
Safit America Inc Valdosta GA 912-247-2331
Sager Hingham MA 617-749-6700
Sonnenschein Batteries Inc Cheshire CT 203-271-0091

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BATTERY SPECIALTIES LONG BEACH CA	213-437-1809
ADV PG 31	
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434-435	
EVEREADY BATTERY CO INC	
DANBURY CT	203-794-2000
ADV PG 36	
PANASONIC INDUSTRIAL CO BATTERY SALES DIV	
SECAUCUS NJ	201-348-5266
ADV PG 33	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TAUBER ELECTRONICS INC	
SAN DIEGO CA	619-274-7242
ADV PGS 32,33	
TNR TECHNICAL INC DEER PARK NY	516-242-4800
ADV PG 31	
Altus Corp San Jose CA	408-295-1300
Battery Specialties Long Beach CA	213-437-1809
Catalyst Research Baltimore MD	301-296-7000
Eagle-Picher Industries Inc Electronics Div	
Joplin MO	417-623-8000
Elca Battery Co Menlo Park CA	415-327-8600
Electric Switches Inc Los Angeles CA	213-660-1310
Electrochem Industries Inc Clarence NY	716-759-2828
Electrochimica Corp Menlo Park CA	415-327-8600
Elpower Corp Santa Ana CA	714-540-6155
Eveready Battery Co Inc Danbury CT	203-794-2000
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA	818-781-0505
Norelcom Industries Inc Farmingdale NY	516-249-7262
Nova-Tronix Inc Santa Clara CA	408-727-9530
Pan American Trade Development Corp	
New York NY	212-481-1800
Panasonic Industrial Co Battery Sales Div	
Secaucus NJ	201-348-5266
Plainview Electronics Corp Plainview NY	516-249-6677
Polaroid Corp Commercial Battery Div	
Cambridge MA	617-577-2237
Power Conversion Inc Elmwood Park NJ	201-796-4800
Power Group International Richfield MN	612-890-1360
Rayovac Corp Madison WI	608-275-3340
Salt America Inc Valdosta GA	912-247-2331
Sanyo Electric Inc Little Ferry NJ	201-641-2333
Shokai Far East Ltd Hartsdale NY	914-681-0700
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Tauber Electronics Inc San Diego CA	619-274-7242
Telecommunication Devices Inc	
Downers Grove IL	312-971-3460
TNR Technical Inc Deer Park NY	516-242-4800
Varta Batteries Inc Elmsford NY	914-592-2500

BATTERIES—MAGNESIUM-AIR

PANASONIC INDUSTRIAL CO BATTERY SALES DIV	
SECAUCUS NJ	201-348-5266
ADV PG 33	
TNR TECHNICAL INC DEER PARK NY	516-242-4800
ADV PG 31	
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA	818-781-0505
Panasonic Industrial Co Battery Sales Div	
Secaucus NJ	201-348-5266
Telecommunication Devices Inc	
Downers Grove IL	312-971-3460
TNR Technical Inc Deer Park NY	516-242-4800

BATTERIES—MAINTENANCE FREE

BATTERY SPECIALTIES LONG BEACH CA	213-437-1809
ADV PG 31	
GATES ENERGY PRODUCTS INC	
DENVER CO	303-744-4806
ADV PG 32	
PANASONIC INDUSTRIAL CO BATTERY SALES DIV	
SECAUCUS NJ	201-348-5266
ADV PG 33	
POWER-SONIC CORP REDWOOD CITY CA	415-364-5001
ADV PG 35	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
ADV PG 32	
TAUBER ELECTRONICS INC	
SAN DIEGO CA	619-274-7242
ADV PGS 32,33	
TNR TECHNICAL INC DEER PARK NY	516-242-4800
ADV PG 31	
Altus Corp San Jose CA	408-295-1300
Battery Specialties Long Beach CA	213-437-1809
Dimplex Inc Glen Cove NY	516-671-4400
Elpower Corp Santa Ana CA	714-540-6155
Gates Energy Products Inc Denver CO	303-744-4806
Hydrocap Corp Miami FL	305-696-2504
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Van Nuys CA	818-781-0505
Panasonic Industrial Co Battery Sales Div	
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Power-Sonic Corp Redwood City CA	415-364-5001
Sager Hingham MA	617-749-6700
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ALEXANDER MFG CO MASON CITY IA	515-423-8955
ADV PG 34	
BATTERY SPECIALTIES LONG BEACH CA	213-437-1809
ADV PG 31	
EVEREADY BATTERY CO INC	
DANBURY CT	203-794-2000
ADV PG 36	
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
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Plainview Electronics Corp Plainview NY	516-249-6677
Power Group International Richfield MN	612-890-1360
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Tauber Electronics Inc San Diego CA	619-274-7242
Telecommunication Devices Inc	
Downers Grove IL	312-971-3460
TNR Technical Inc Deer Park NY	516-242-4800
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ADV PG 31	
EVEREADY BATTERY CO INC	
DANBURY CT	203-794-2000
ADV PG 36	
PANASONIC INDUSTRIAL CO BATTERY SALES DIV	
SECAUCUS NJ	201-348-5266
ADV PG 33	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
TAUBER ELECTRONICS INC	
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ADV PGS 32,33	
TNR TECHNICAL INC DEER PARK NY	516-242-4800
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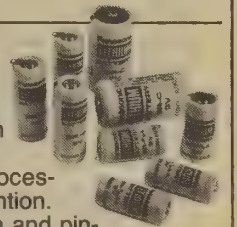
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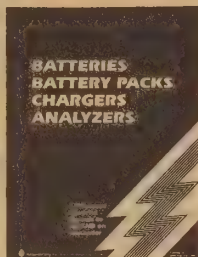
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United States

Arkansas, Illinois, Indiana, Iowa, Kansas, Louisiana, Missouri, Michigan, Nebraska, Ohio, Oklahoma, Texas
Alexander Battery Co
In IL: 1-800-892-2265 Elsewhere: 1-800-323-3813

Alabama, District of Columbia, Florida, Georgia, Kentucky, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia
Alexander Battery Co., SE
In GA: 1-800-242-9226 Elsewhere: 1-800-334-0342

Connecticut, Delaware, Massachusetts, Maine, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont
Alexander Battery Co., East
In NJ: 201-271-5880 Elsewhere: 1-800-221-0019

Arizona, California, Hawaii, Nevada, New Mexico,
Alexander Battery Co., West
In CA: 1-800-327-0814 Elsewhere: 1-800-421-1108

Colorado, Montana, Wyoming
Aurora Marketing Co.
In CO: 1-800-235-3580 Elsewhere: 1-800-525-3580

Alaska, Idaho, Oregon, Washington
Arpac Ltd.
In WA: 1-800-858-0058 Elsewhere: 1-800-426-2964

Minnesota, North Dakota, South Dakota, Wisconsin
Paul Ohlin Sales Co.
612-941-7697

Canada

British Columbia, Yukon
Traeger Distributors, Ltd.
604-946-0818

Alberta, Manitoba, Saskatchewan
Westcan Two-Way Radio Ltd.
403-451-2355 1-800-661-1905

New Brunswick, Newfoundland, Nova Scotia, Ontario, Prince Edward Island, Quebec
Kilpatrick Comm. & Controls
416-743-6945 1-800-387-5865

Outside North America

Alexander Mfg. Co. UK Ltd.
Phone: 783-872787
Telex: 537202 Fax: 0783-872587

Alexander Mfg Co Mason City IA.....	515-423-8955
Battery Specialties Long Beach CA.....	213-437-1809
Elca Battery Co Menlo Park CA.....	415-327-8600
Electrochimica Corp Menlo Park CA.....	415-327-8600
Eveready Battery Co Inc Danbury CT.....	203-794-2000
Multiplier Industries Corp Mt Vernon NY.....	914-699-0990
Nesco Battery Sys Div Natl Electro-Sales Corp Van Nuys CA.....	818-781-0505
Panasonic Industrial Co Battery Sales Div Secaucus NJ.....	201-348-5266
Plainview Electronics Corp Plainview NY.....	516-249-6677
Power Group International Richfield MN.....	612-890-1360
Rayovac Corp Madison WI.....	608-275-3340
Sager Hingham MA.....	617-749-6700
Signals Communications Corp Manchester NH.....	603-669-0600
Tauber Electronics Inc San Diego CA.....	619-274-7242
Telecommunication Devices Inc Downers Grove IL.....	312-971-3460
TNR Technical Inc Deer Park NY.....	516-242-4800
Varta Batteries Inc Elmsford NY.....	914-592-2500

BATTERIES—NICKEL ALKALINE

PANASONIC INDUSTRIAL CO BATTERY SALES DIV SECAUCUS NJ.....	201-348-5266
ADV PG 33	
TNR TECHNICAL INC DEER PARK NY.....	516-242-4800
ADV PG 31	
Eagle-Picher Industries Inc Electronics Div Joplin MO.....	417-623-8000
Hydrocap Corp Miami FL.....	305-696-2504
Multiplier Industries Corp Mt Vernon NY.....	914-699-0990
Nesco Battery Sys Div Natl Electro-Sales Corp Van Nuys CA.....	818-781-0505
Norelcom Industries Inc Farmingdale NY.....	516-249-7262
Panasonic Industrial Co Battery Sales Div Secaucus NJ.....	201-348-5266
Signals Communications Corp Manchester NH.....	603-669-0600
Telecommunication Devices Inc Downers Grove IL.....	312-971-3460
TNR Technical Inc Deer Park NY.....	516-242-4800
Yardney Battery Div Pawcatuck CT.....	203-599-1100

BATTERIES—NICKEL-CADMIUM

ALEXANDER MFG CO MASON CITY IA.....	515-423-8955
ADV PG 34	
BATTERY SPECIALTIES LONG BEACH CA.....	213-437-1809
ADV PG 31	
ELECTRIC SWITCHES INC LOS ANGELES CA.....	213-660-1310
ADV PGS 434,435	
ELECTRONIC EQUIPMENT CO LTD HEMPSTEAD NY.....	516-538-5510
EVEREADY BATTERY CO INC DANBURY CT.....	203-794-2000
ADV PG 36	
MOUSER ELECTRONICS MANSFIELD TX.....	817-483-0165
PANASONIC INDUSTRIAL CO BATTERY SALES DIV SECAUCUS NJ.....	201-348-5266
ADV PG 33	
POWER-SONIC CORP REDWOOD CITY CA.....	415-364-5001
ADV PG 35	
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
TAUBER ELECTRONICS INC SAN DIEGO CA.....	619-274-7242
ADV PGS 32,33	
TNR TECHNICAL INC DEER PARK NY.....	516-242-4800
ADV PG 31	
Alexander Mfg Co Mason City IA.....	515-423-8955
Altus Corp San Jose CA.....	408-295-1300
Avex Electronics Bensalem PA.....	215-638-1515
Battery Specialties Long Beach CA.....	213-437-1809
Bright Star Industries Inc Clifton NJ.....	201-772-3200
Cushcraft Corp Manchester NH.....	603-627-7877
Eagle-Picher Industries Inc Electronics Div Joplin MO.....	417-623-8000
Electric Switches Inc Los Angeles CA.....	213-660-1310
Electronic Equipment Co Ltd Hempstead NY.....	516-538-5510
Epipower Corp Santa Ana CA.....	714-540-6155
Eveready Battery Co Inc Danbury CT.....	203-794-2000
Flight Research A Geotell Co Richmond VA.....	804-222-0163
Hydrocap Corp Miami FL.....	305-696-2504
LZR Electronics Inc Gaithersburg MD.....	301-921-9440
Marathon Battery Co Waco TX.....	817-776-0650
Motorola Inc Component Products Franklin Park IL.....	312-451-1000
Mouser Electronics Mansfield TX.....	817-483-0165
Multiplier Industries Corp Mt Vernon NY.....	914-699-0990
Nesco Battery Sys Div Natl Electro-Sales Corp Van Nuys CA.....	818-781-0505
Norelcom Industries Inc Farmingdale NY.....	516-249-7262
O K Industries Bronx NY.....	212-994-6600
Pan American Trade Development Corp New York NY.....	212-481-1800
Panasonic Industrial Co Battery Sales Div Secaucus NJ.....	201-348-5266
Plainview Electronics Corp Plainview NY.....	516-249-6677
Power Group International Richfield MN.....	612-890-1360
Power-Sonic Corp Redwood City CA.....	415-364-5001
Ramsay Engineering Co Anaheim CA.....	714-524-8855
Rayovac Corp Madison WI.....	608-275-3340
Saft America Inc Valosta GA.....	912-247-2331
Sager Hingham MA.....	617-749-6700
Sanyo Electric Inc Little Ferry NJ.....	201-641-2333
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Signals Communications Corp Manchester NH.....	603-669-0600
SPC Technology Bensenville IL.....	312-766-6711

Tauber Electronics Inc San Diego CA.....	619-274-7242
Telecommunication Devices Inc Downers Grove IL.....	312-971-3460
TNR Technical Inc Deer Park NY.....	516-242-4800
Varta Batteries Inc Elmsford NY.....	914-592-2500
Yardney Battery Div Pawcatuck CT.....	203-599-1100
Yuasa Battery America Inc Santa Fe Springs CA.....	213-949-4266

BATTERIES—NICKEL ZINC

PANASONIC INDUSTRIAL CO BATTERY SALES DIV SECAUCUS NJ.....	201-348-5266
ADV PG 33	
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
TNR TECHNICAL INC DEER PARK NY.....	516-242-4800
ADV PG 31	
Eagle-Picher Industries Inc Electronics Div Joplin MO.....	417-623-8000
Elca Battery Co Menlo Park CA.....	415-327-8600
Electrochimica Corp Menlo Park CA.....	415-327-8600
Nesco Battery Sys Div Natl Electro-Sales Corp Van Nuys CA.....	818-781-0505
Panasonic Industrial Co Battery Sales Div Secaucus NJ.....	201-348-5266
Sager Hingham MA.....	617-749-6700
TNR Technical Inc Deer Park NY.....	516-242-4800
Yardney Battery Div Pawcatuck CT.....	203-599-1100

BATTERIES—NUCLEAR

PANASONIC INDUSTRIAL CO BATTERY SALES DIV SECAUCUS NJ.....	201-348-5266
ADV PG 33	
TNR TECHNICAL INC DEER PARK NY.....	516-242-4800
ADV PG 31	
Panasonic Industrial Co Battery Sales Div Secaucus NJ.....	201-348-5266
TNR Technical Inc Deer Park NY.....	516-242-4800

BATTERIES—PHOTOFLASH

BATTERY SPECIALTIES LONG BEACH CA.....	213-437-1809
ADV PG 31	
EVEREADY BATTERY CO INC DANBURY CT.....	203-794-2000
ADV PG 36	
GATES ENERGY PRODUCTS INC DENVER CO.....	303-744-4806
ADV PG 32	
PANASONIC INDUSTRIAL CO BATTERY SALES DIV SECAUCUS NJ.....	201-348-5266
ADV PG 33	
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
SHELLEY-RAGON INC ST PAUL MN.....	612-542-2828
ADV PG 32	
TAUBER ELECTRONICS INC SAN DIEGO CA.....	619-274-7242
ADV PGS 32,33	
TNR TECHNICAL INC DEER PARK NY.....	516-242-4800
ADV PG 31	
Battery Specialties Long Beach CA.....	213-437-1809
Eveready Battery Co Inc Danbury CT.....	203-794-2000
Gates Energy Products Inc Denver CO.....	303-744-4806
Nesco Battery Sys Div Natl Electro-Sales Corp Van Nuys CA.....	818-781-0505
Panasonic Industrial Co Battery Sales Div Secaucus NJ.....	201-348-5266
Plainview Electronics Corp Plainview NY.....	516-249-6677
Power Group International Richfield MN.....	612-890-1360
Rayovac Corp Madison WI.....	608-275-3340
Sager Hingham MA.....	617-749-6700
Shelley-Ragon Inc St Paul MN.....	612-542-2828
Sonnenschein Batteries Inc Cheshire CT.....	203-271-0091
Tauber Electronics Inc San Diego CA.....	619-274-7242
TNR Technical Inc Deer Park NY.....	516-242-4800
Varta Batteries Inc Elmsford NY.....	914-592-2500

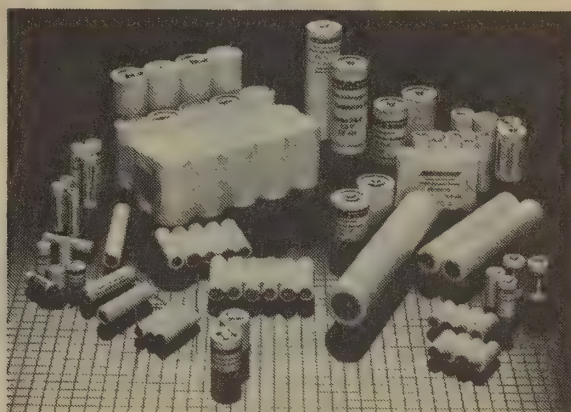
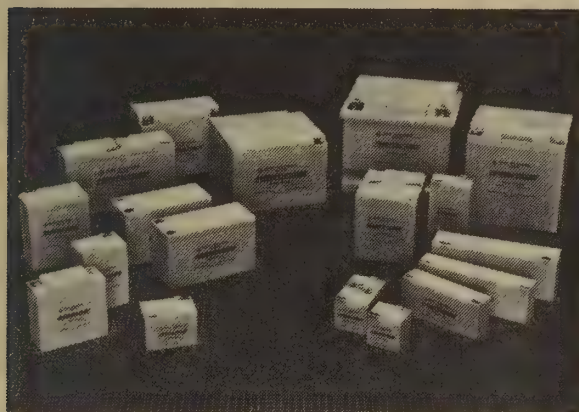
BATTERIES—SILVER-CADMIUM

PANASONIC INDUSTRIAL CO BATTERY SALES DIV SECAUCUS NJ.....	201-348-5266
ADV PG 33	
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
TNR TECHNICAL INC DEER PARK NY.....	516-242-4800
ADV PG 31	
Eagle-Picher Industries Inc Electronics Div Joplin MO.....	417-623-8000
Elca Battery Co Menlo Park CA.....	415-327-8600
Electrochimica Corp Menlo Park CA.....	415-327-8600
Nesco Battery Sys Div Natl Electro-Sales Corp Van Nuys CA.....	818-781-0505
Panasonic Industrial Co Battery Sales Div Secaucus NJ.....	201-348-5266
Power Group International Richfield MN.....	612-890-1360
Sager Hingham MA.....	617-749-6700
Telecommunication Devices Inc Downers Grove IL.....	312-971-3460
TNR Technical Inc Deer Park NY.....	516-242-4800
Yardney Battery Div Pawcatuck CT.....	203-599-1100

RECHARGEABLE

POWER SONIC

BATTERIES



SEALED LEAD-ACID BATTERIES

Model	Voltage (V)	Nominal Capacity @ 20 hr. rate (A.H.)	Current @ 20 hr. rate (mA)	DIMENSIONS								Weight	
				Length		Width		Height		Height Over Terminal			
				in.	mm.	in.	mm.	in.	mm.	in.	mm.	lbs.	kg.
PS-490	4	9.0	450	4.02	102	1.73	44	3.70	94	3.86	98	2.4	1.1
PS-610	6	1.0	50	2.00	51	1.65	42	2.00	51	2.20	56	0.6	0.3
PS-612	6	1.2	60	3.82	97	0.94	24	2.00	51	2.13	54	0.6	0.3
PS-618	6	1.8	90	2.95	75	2.00	51	2.09	53	2.28	58	0.9	0.4
PS-626	6	2.6	130	5.28	134	1.34	34	2.35	60	2.56	65	1.3	0.6
PS-630	6	3.0	150	2.60	66	1.30	33	4.84	123	5.00	127	1.5	0.7
PS-640	6	4.0	200	2.76	70	1.89	48	4.02	102	4.02	102	1.8	0.8
PS-660	6	6.5	325	5.95	151	1.34	34	3.70	94	3.86	98	3.0	1.4
PS-665	6	6.5	325	3.86	98	2.20	56	4.05	103	4.05	103	3.0	1.4
PS-682	6	8.0	400	3.86	98	2.20	56	4.65	118	4.65	118	3.3	1.5
PS-6100	6	10.0	500	5.95	151	2.00	51	3.70	94	3.86	98	4.6	2.1
PS-6105	6	10.0	500	4.25	108	2.75	70	5.51	140	5.51	140	4.3	2.0
PS-6120	6	12.0	600	4.25	108	2.75	70	5.51	140	5.51	140	4.6	2.1
PS-6200	6	20.0	1000	6.18	157	3.27	83	4.92	125	4.92	125	8.2	3.7
PS-1207	12	0.7	35	3.78	96	0.98	25	2.42	62	2.42	62	0.8	0.35
PS-1212	12	1.2	60	3.82	97	1.65	42	2.00	51	2.13	54	1.3	0.6
PS-1219	12	1.9	95	7.01	178	1.34	34	2.36	60	2.56	65	1.9	0.9
PS-1226	12	2.6	130	7.68	195	1.85	47	2.76	70	2.95	75	2.9	1.3
PS-1240	12	4.0	200	5.94	151	2.56	65	3.70	94	3.89	99	4.5	2.0
PS-1245	12	5.0	250	5.94	151	2.56	65	3.70	94	3.89	99	5.0	2.3
PS-1265	12	6.5	325	5.95	151	2.56	65	3.70	94	3.86	98	5.7	2.6
PS-1282S	12	8.0	400	4.40	112	3.86	98	4.65	118	4.65	118	6.7	3.0
PS-1282L	12	8.0	400	7.72	196	2.20	56	4.65	118	4.65	118	6.7	3.0
PS-12100	12	10.0	500	5.95	151	4.00	102	3.70	94	3.86	98	9.2	4.2
PS-12120	12	12.0	600	4.25	108	5.50	140	5.51	140	5.51	140	8.8	4.0
PS-12150	12	15.0	750	7.13	181	2.99	76	6.57	167	6.57	167	12.8	5.8
PS-12200	12	20.0	1000	6.89	175	6.54	166	4.92	125	4.92	125	17.6	8.0
PS-12240	12	24.0	1200	6.52	166	4.92	125	6.89	175	6.89	175	19.8	9.0
PS-12260	12	26.0	1300	6.89	175	6.54	166	4.92	125	4.92	125	18.7	8.5
PS-12300	12	30.0	1500	7.75	197	5.19	132	6.12	155	7.31	186	21.8	9.9
PS-12400	12	40.0	2000	7.64	194	6.85	174	6.85	174	6.85	174	28.7	13.0
PS-12600	12	60.0	3000	10.25	260	6.60	168	8.20	208	9.45	240	39.7	18.0
PS-12800	12	80.0	4000	12.00	305	6.60	168	8.20	208	9.45	240	50.0	22.7

TOLERANCES: Length and Width: ± 0.04 in. (1mm) — Height: ± 0.08 in. (2mm)

SEALED NICKEL-CADMIUM BATTERIES

Model	Nominal Voltage (V)	Capacity 5 hr. rate (mAh)	Standard Charge		Quick Charge		Diameter (Max.)		Height (Max.)		Weight	
			(mA)	(hrs.)	(mA)	(hrs.)	inches	mm.	inches	mm.	oz.	g
PS-1/3AA	1.2	110	11	15	28	6.0	0.571	14.5	0.669	17.0	0.25	7
PS-N	1.2	150	15	15	38	6.0	0.473	12.0	1.142	29.0	0.30	9
PS-AAA	1.2	180	18	15	45	6.0	0.413	10.5	1.752	44.5	0.35	10
PS-2/3AA	1.2	250	25	15	75	4.5	0.571	14.5	1.181	30.0	0.42	12
PS-AA	1.2	500	50	15	150	4.5	0.571	14.5	1.988	50.5	0.74	22
PS-SC	1.2	1200	120	15	300	6.0	0.906	23.0	1.693	43.0	1.69	48
PS-C	1.2	1800	180	15	—	—	1.024	26.0	1.969	50.0	2.65	75
PS-1/2D	1.2	2200	220	15	—	—	1.300	33.0	1.476	37.5	3.03	86
PS-D	1.2	4000	400	15	—	—	1.339	34.0	2.402	61.5	5.47	155
PS-F	1.2	7000	700	15	—	—	1.339	34.0	3.583	91.5	8.82	250

P.O. Box 5242 • 3106 Spring Street • Redwood City, CA 94063 U.S.A. • (415) 364-5001 • Telex 348400



**Recommend
the right
EVEREADY
Battery
for the
right
job.**

"Eveready" wants you to choose the right battery for the right job, at the right price.

"Eveready" Battery Systems are:

Primary: GENERAL PURPOSE (Carbon Zinc)

— **SUPER HEAVY DUTY** (Zinc Chloride)—**ENERGIZER** (Alkaline)

— **MINIATURE ALKALINE** (Silver Oxide, Mercuric Oxide, MnO_2)

— **LITHIUM-Button, Coin and Cylindrical** (FeS_2 , MnO_2 , SOCL_2)

Secondary: NICKEL-CADMIUM-high rate and fast charge types.

**...From the manufacturer of the most complete
dry battery line in the world**

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EVEREADY

Battery Company, Inc.

St. Louis, MO 63164

SALES OFFICES: NORCROSS, GA. MIDDLEBURG HEIGHTS, OH.
ITASCA, IL. DALLAS, SADDLE BROOK, NJ. SAN FRANCISCO

Eveready Battery Company, Inc. provides a consulting service of experienced battery engineers as an aid to manufacturers in need of special battery designs. For help with your specific battery problems, call (203) 794-7548 or write Battery Engineering Dept. No. J in Danbury, CT. (address shown on this page)

BATTERIES—SILVER OXIDE

EDAL INDUSTRIES INC EAST HAVEN CT.....	203-467-2591
EVEREADY BATTERY CO INC	
DANBURY CT.....	203-794-2000
ADV PG 36	
TNR TECHNICAL INC DEER PARK NY.....	516-242-4800
ADV PG 31	
Edal Industries Inc East Haven CT.....	203-467-2591
Eveready Battery Co Inc Danbury CT.....	203-794-2000
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA.....	818-781-0505
Plainview Electronics Corp Plainview NY.....	516-249-6677
Rayovac Corp Madison WI.....	608-275-3340
TNR Technical Inc Deer Park NY.....	516-242-4800

BATTERIES—SILVER ZINC

EDAL INDUSTRIES INC EAST HAVEN CT.....	203-467-2591
EVEREADY BATTERY CO INC	
DANBURY CT.....	203-794-2000
ADV PG 36	
PANASONIC INDUSTRIAL CO BATTERY SALES DIV	
SECAUCUS NJ.....	201-348-5266
ADV PG 33	
TAUBER ELECTRONICS INC	
SAN DIEGO CA.....	619-274-7242
ADV PGS 32,33	
TNR TECHNICAL INC DEER PARK NY.....	516-242-4800
ADV PG 31	
Eagle-Picher Industries Inc Electronics Div	
Joplin MO.....	417-623-8000
Edal Industries Inc East Haven CT.....	203-467-2591
Elica Battery Co Menlo Park CA.....	415-327-8600
Electrochimica Corp Menlo Park CA.....	415-327-8600
Eveready Battery Co Inc Danbury CT.....	203-794-2000
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA.....	818-781-0505
Pan American Trade Development Corp	
New York NY.....	212-481-1800
Panasonic Industrial Co Battery Sales Div	
Secaucus NJ.....	201-348-5266
Power Group International Richfield MN.....	612-890-1360
Saft America Inc Valdosta GA.....	912-247-2331
Seiko Instruments USA Inc Torrance CA.....	213-530-8777
Tauber Electronics Inc San Diego CA.....	619-274-7242
Telecommunication Devices Inc	
Downers Grove IL.....	312-971-3460
TNR Technical Inc Deer Park NY.....	516-242-4800
Yardney Battery Div Pawcatuck CT.....	203-599-1100

BATTERIES—SOLAR

See Photocells—Photovoltaic

BATTERIES—STANDARD CELL

PANASONIC INDUSTRIAL CO BATTERY SALES DIV	
SECAUCUS NJ.....	201-348-5266
ADV PG 33	
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
TAUBER ELECTRONICS INC	
SAN DIEGO CA.....	619-274-7242
ADV PGS 32,33	
TNR TECHNICAL INC DEER PARK NY.....	516-242-4800
ADV PG 31	
ACR Electronics Inc Ft Lauderdale FL.....	305-981-3333
Aristo-Craft New York NY.....	212-924-4041
Eagle-Picher Industries Inc Electronics Div	
Joplin MO.....	417-623-8000
Koep Precision Standards Inc	
South Plainfield NJ.....	201-549-9280
Kurz Instruments Inc Carmel Valley CA.....	408-659-3421
Multipier Industries Corp Mt Vernon NY.....	914-699-0990
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA.....	818-781-0505
Panasonic Industrial Co Battery Sales Div	
Secaucus NJ.....	201-348-5266
Sager Hingham MA.....	617-749-6700
Sanyo Electric Inc Little Ferry NJ.....	201-641-2333
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Tauber Electronics Inc San Diego CA.....	619-274-7242
Telecommunication Devices Inc	
Downers Grove IL.....	312-971-3460
TNR Technical Inc Deer Park NY.....	516-242-4800
Wonder Corp of America Norwalk CT.....	203-866-3033

BATTERIES—STORAGE

GATES ENERGY PRODUCTS INC	
DENVER CO.....	303-744-4806
ADV PG 32	
PANASONIC INDUSTRIAL CO BATTERY SALES DIV	
SECAUCUS NJ.....	201-348-5266
ADV PG 33	
SHELLEY-RAGON INC ST PAUL MN.....	612-542-2828
ADV PG 32	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
TAUBER ELECTRONICS INC	
SAN DIEGO CA.....	619-274-7242
ADV PGS 32,33	
TNR TECHNICAL INC DEER PARK NY.....	516-242-4800
ADV PG 31	
Aristo-Craft New York NY.....	212-924-4041
Eagle-Picher Industries Inc Electronics Div	
Joplin MO.....	417-623-8000
Elica Battery Co Menlo Park CA.....	415-327-8600
Electrochimica Corp Menlo Park CA.....	415-327-8600

Gates Energy Products Inc Denver CO.....	303-744-4806
Hydrocap Corp Miami FL.....	305-696-2504
Mountain West Alarm Supply Co Phoenix AZ.....	602-263-8831
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA.....	818-781-0505
Panasonic Industrial Co Battery Sales Div	
Secaucus NJ.....	201-348-5266
Power Group International Richfield MN.....	612-890-1360
Saft America Inc Valdosta GA.....	912-247-2331
Shelley-Ragon Inc St Paul MN.....	612-542-2828
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Sonnenschein Batteries Inc Cheshire CT.....	203-271-0091
Tauber Electronics Inc San Diego CA.....	619-274-7242
TNR Technical Inc Deer Park NY.....	516-242-4800
Yardney Battery Div Pawcatuck CT.....	203-599-1100

BATTERIES—WATER-ACTIVATED

ACR Electronics Inc Ft Lauderdale FL.....	305-981-3333
Eagle-Picher Industries Inc Electronics Div	
Joplin MO.....	417-623-8000
Hermes Electronics Ltd Dartmouth NS.....	902-466-7491
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA.....	818-781-0505
Yardney Battery Div Pawcatuck CT.....	203-599-1100

BATTERY CHARGERS—GENERATOR & HEAVY DUTY TYPES

CML MACARR DIV BROOKLYN NY.....	718-857-2400
JOHN FRANEK CO INC IRVINE CA.....	714-261-5377
M/A-COM MICROWAVE POWER DEVICES INC	
HAUPPAUGE NY.....	516-231-1400
ADV PG 19	
Acme Electric Corp Olean NY.....	716-968-2400
A-Systems Inc Charlottesville VA.....	804-295-7200
Automatic Switch Co Florham Park NJ.....	201-966-2000
Bendix Electric Power Div Eatontown NJ.....	201-542-2000
Chloride Electro Networks Caledonia NY.....	716-538-4421
Christie Electric Corp Torrance CA.....	213-320-0808
CML Macarr Div Brooklyn NY.....	718-857-2400
CNI Inc Orefield PA.....	215-395-6444
Computer Power Inc High Bridge NJ.....	201-638-8000
Dattilo Electronics Louisville KY.....	502-267-4446
Dynamote Corp Seattle WA.....	206-282-1000
ECO Instruments Div Sea Data Corp	
Newton MA.....	617-964-8360
Electronic Measurements Inc Neptune NJ.....	201-922-9300
John Franek Co Inc Irvine CA.....	714-261-5377
Green Rectifier Corp Nutley NJ.....	201-667-8721
Hitran Corp Flemington NJ.....	201-782-5525
ITT PowerSystems Corp Gallion OH.....	419-468-8100
LaMarche Mfg Co Des Plaines IL.....	312-299-1188
M/A-COM Microwave Power Devices Inc	
Hauppauge NY.....	516-231-1400
Mag-Con Inc St Paul MN.....	612-633-8820
Master Control Systems Inc Lake Bluff IL.....	312-295-1010
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA.....	818-781-0505
Power Control Corp Pittsburgh PA.....	412-782-3120
Ratelco Inc Power Systems Div Seattle WA.....	206-624-7170
Rutherford Research Co Rutherford NJ.....	201-933-2091
Sanford Miller Corp Lynbrook NY.....	800-645-5900
Schauer Mfg Corp Cincinnati OH.....	513-791-3030
Stone Safety Corp Wallingford CT.....	203-265-7131

BATTERY CHARGERS—SMALL, FAST-RATE PLUG-IN UNITS

ALEXANDER MFG CO MASON CITY IA.....	515-423-8955
ADV PG 34	
BASLER ELECTRIC CO HIGHLAND IL.....	618-654-2341
BATTERY SPECIALTIES LONG BEACH CA.....	213-437-1809
ADV PG 31	
CML MACARR DIV BROOKLYN NY.....	718-857-2400
EVEREADY BATTERY CO INC	
DANBURY CT.....	203-794-2000
ADV PG 36	
JOHN FRANEK CO INC IRVINE CA.....	714-261-5377
PANASONIC INDUSTRIAL CO BATTERY SALES DIV	
SECAUCUS NJ.....	201-348-5266
PAN-MAGNETICS INTL INC CARSON CA.....	213-532-1790
ADV PG 493	
POWER-SONIC CORP REDWOOD CITY CA.....	415-364-5001
ADV PG 35	
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
TAUBER ELECTRONICS INC	
SAN DIEGO CA.....	619-274-7242
Acme Electric Corp Olean NY.....	716-968-2400
Alexander Mfg Co Mason City IA.....	515-423-8955
Aristo-Craft New York NY.....	212-924-4041
A-Systems Inc Charlottesville VA.....	804-295-7200
Ault Inc Minneapolis MN.....	612-560-9300
Basler Electric Co Highland IL.....	618-654-2341
Battery Specialties Long Beach CA.....	213-437-1809
Bright Star Industries Inc Clifton NJ.....	201-772-3200
Christie Electric Corp Torrance CA.....	213-320-0808
CML Macarr Div Brooklyn NY.....	718-857-2400
Dattilo Electronics Louisville KY.....	502-267-4446
Dayton Granger Inc Ft Lauderdale FL.....	305-463-3451
D & B Power Inc Bayshore NY.....	516-586-5955
Dynamote Corp Seattle WA.....	206-282-1000
ECO Instruments Div Sea Data Corp	
Newton MA.....	617-964-8360
Electro-Mech Co Colorado Springs CO.....	303-597-1620
Epover Corp Santa Ana CA.....	714-540-6155
Eveready Battery Co Inc Danbury CT.....	203-794-2000
John Franek Co Inc Irvine CA.....	714-261-5377
Green Rectifier Corp Nutley NJ.....	201-667-8721
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830

International Components Corp Chicago IL	312-772-4400
Jerome Industries Corp Elizabeth NJ	201-353-5700
K C Industries Inc Cambridge NE	308-697-4711
LZR Electronics Inc Galtersburg MD	301-921-9440
Mag-Con Inc St Paul MN	612-633-8820
Multiplier Industries Corp Mt Vernon NY	914-699-0990
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA	818-781-0505
O K Industries Bronx NY	212-994-6600
Pan American Trade Development Corp	
New York NY	212-481-1800
Panasonic Industrial Co Battery Sales Div	
Secaucus NJ	201-348-5266
Pan-Magnetics Intl Inc Carson CA	213-532-1790
Plainview Electronics Corp Plainview NY	516-249-6677
Power Group International Richfield MN	612-890-1360
Power-Sonic Corp Redwood City CA	415-364-5001
RIL Electronics Inc Warrington PA	215-343-5075
Saft America Inc Valdosta GA	912-247-2331
Sager Hingham MA	617-749-6700
Sanford Miller Corp Lynbrook NY	800-645-5900
Sanyo Electric Inc Little Ferry NJ	201-641-2333
Schauer Mfg Corp Cincinnati OH	513-791-3030
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sonnenschein Batteries Inc Cheshire CT	203-271-0091
SPC Technology Bensenville IL	312-766-6711
Tauber Electronics Inc San Diego CA	619-274-7242
Transformation Electronics Corp Bohemia NY	516-563-1117
Yardney Battery Div Elmsford NY	914-592-2500
Yardney Battery Div Pawcatuck CT	203-599-1100

BATTERY CHARGERS—SOLID STATE
(EXCEPT TYPES ABOVE)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
BASLER ELECTRIC CO HIGHLAND IL	618-654-2341
CML MACARR DIV BROOKLYN NY	718-857-2400
EPSCO INC ADDISON IL	312-543-0410
JOHN FRANEK CO INC IRVINE CA	714-261-5377
INTERELECTRONICS CORP CONGRERS NY	914-358-8000
KEPCO INC FLUSHING NY	718-461-7000
M/A-COM MICROWAVE POWER DEVICES INC	
HAUPPAUGE NY	516-231-1400
ADV PG 19	
PANASONIC INDUSTRIAL CO BATTERY SALES DIV	
SECAUCUS NJ	201-348-5266
POWER-SONIC CORP REDWOOD CITY CA	415-364-5001
ADV PG 35	
TAUBER ELECTRONICS INC	
SAN DIEGO CA	619-274-7242
TNR TECHNICAL INC DEER PARK NY	516-242-4800
ADV PG 31	
Acme Electric Corp Olean NY	716-968-2400
AEG Corporation Somerville NJ	201-722-9800
Aerospace Avionics Inc Bohemia NY	516-467-5500
A-Systems Inc Charlottesville VA	804-295-7200
Basler Electric Co Highland IL	618-654-2341
Behlman Engineering Carpinteria CA	805-684-8311
Christie Electric Corp Torrance CA	213-320-0808
CML Macarr Div Brooklyn NY	718-857-2400
CNI Inc Orefield PA	215-395-6444
Computer Power Inc High Bridge NJ	201-638-8000
Controltek Inc Portland OR	503-641-0876
Dattilo Electronics Louisville KY	502-267-4446
D & B Power Inc Bayshore NY	516-586-5955
Dynamote Corp Seattle WA	206-282-1000
Eastern Delta Corp Nutley NJ	201-667-8721
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Eldec Corp Lynnwood WA	206-743-1313
Electro-Mech Co Colorado Springs CO	303-597-1620
Elgin Electronics Erie PA	814-864-4921
EpSCO Inc Addison IL	312-543-0410
Firing Circuits Inc Norwalk CT	203-846-1633
John Franeck Co Inc Irvine CA	714-261-5377
Gates Electronic Co Inc Bronx NY	212-881-5900
Green Rectifier Corp Nutley NJ	201-667-8721
Gulton Industries Inc Engrd Magnetics Div	
Hawthorne CA	213-679-0111
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Heath Co Benton Harbor MI	616-982-3200
Hitrans Corp Flemington NJ	201-782-5525
Holmes Co Carl E Los Angeles CA	213-256-2255
Interelctronics Corp Congers NY	914-358-8000
International Components Corp Chicago IL	312-772-4400
ITT PowerSystems Corp Gallion OH	419-468-8100
Kalglo Electronics Co Inc Bethlehem PA	215-837-0700
K C Industries Inc Cambridge NE	308-697-4711
Keeco Inc Flushing NY	718-461-7000
K G S Electronics Pasadena CA	818-798-0786
LaMarche Mfg Co Des Plaines IL	312-299-1188
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
Mag-Con Inc St Paul MN	612-633-8820
Marathon Flite-Tronics Co Burbank CA	818-841-3210
Master Control Systems Inc Lake Bluff IL	312-295-1010
Mountain West Alarm Supply Co Phoenix AZ	602-263-8831
Nautical Electronic Labs Ltd	
Hacketts Cove NS	902-823-2233
Panasonic Industrial Co Battery Sales Div	
Secaucus NJ	201-348-5266
Power Group International Richfield MN	612-890-1360
Power-Sonic Corp Redwood City CA	415-364-5001
Ramsay Engineering Co Anaheim CA	714-524-8855
Rapid Electric Co Inc Brookfield CT	800-332-1111
Ratelco Inc Power Systems Div Seattle WA	206-624-7770
RIL Electronics Inc Warrington PA	215-343-5075
Schauer Mfg Corp Cincinnati OH	513-791-3030
Solidstate Controls Inc Columbus OH	614-846-7500
Stone Safety Corp Wallingford CT	203-265-7131
Tauber Electronics Inc San Diego CA	619-274-7242
Terado Corp St Paul MN	612-646-2868
TNR Technical Inc Deer Park NY	516-242-4800
Triad-Urad Div MagneTek Inc Huntington IN	219-356-7100
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CURRENT & FLOAT CHARGER SERIES

AEG CORPORATION SOMERVILLE NJ	201-722-9800
BATTERY SPECIALTIES LONG BEACH CA	213-437-1809
ADV PG 31	
JOHN FRANEK CO INC IRVINE CA	714-261-5377
PANASONIC INDUSTRIAL CO BATTERY SALES DIV	
SECAUCUS NJ	201-348-5266
PAN-MAGNETICS INTL INC CARSON CA	213-532-1790
ADV PG 493	
POWER-SONIC CORP REDWOOD CITY CA	415-364-5001
ADV PG 35	
TAUBER ELECTRONICS INC	
SAN DIEGO CA	619-274-7242
Acme Electric Corp Olean NY	716-968-2400
AEG Corporation Somerville NJ	201-722-9800
A-Systems Inc Charlottesville VA	804-295-7200
Ault Inc Minneapolis MN	612-560-9300
Battery Specialties Long Beach CA	213-437-1809
Behlman Engineering Carpinteria CA	805-684-8311
Chloride Electro Networks Caledonia NY	718-538-4421
CNI Inc Orefield PA	215-395-6444
Computer Power Inc High Bridge NJ	201-638-8000
Dattilo Electronics Louisville KY	502-267-4446
D & B Power Inc Bayshore NY	516-586-5955
Dynamote Corp Seattle WA	206-282-1000
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Electro-Mech Co Colorado Springs CO	303-597-1620
Elgin Electronics Erie PA	814-864-4921
Epipower Corp Santa Ana CA	714-540-6155
Firing Circuits Inc Norwalk CT	203-846-1633
John Franeck Co Inc Irvine CA	714-261-5377
HDR Power Systems Inc Columbus OH	614-262-6832
Hitrans Corp Flemington NJ	201-782-5525
International Components Corp Chicago IL	312-772-4400
Jerome Industries Corp Elizabeth NJ	201-353-5700
K C Industries Inc Cambridge NE	308-697-4711
K G S Electronics Pasadena CA	818-798-0786
LaMarche Mfg Co Des Plaines IL	312-299-1188
Master Control Systems Inc Lake Bluff IL	312-295-1010
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA	818-781-0505
Panasonic Industrial Co Battery Sales Div	
Secaucus NJ	201-348-5266
Pan-Magnetics Intl Inc Carson CA	213-532-1790
Plainview Electronics Corp Plainview NY	516-249-6677
Power-Sonic Corp Redwood City CA	415-364-5001
Schauer Mfg Corp Cincinnati OH	513-791-3030
Sonnenschein Batteries Inc Cheshire CT	203-271-0091
Stone Safety Corp Wallingford CT	203-265-7131
Tauber Electronics Inc San Diego CA	619-274-7242
Terado Corp St Paul MN	612-646-2868
Yuasa Battery America Inc	
Santa Fe Springs CA	213-949-4266

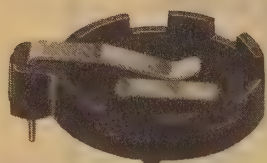
BATTERY CLIPS
See Clips

BATTERY ELIMINATORS
See Power Supplies, DC

BATTERY HOLDERS

KEYSTONE ELECTRONICS CORP	
NEW YORK NY	212-475-4600
ADV PG 37	
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
PANASONIC INDUSTRIAL CO BATTERY SALES DIV	
SECAUCUS NJ	201-348-5266
POWER DYNAMICS INC	
WEST ORANGE NJ	201-736-5722
ADV PG 38	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TAUBER ELECTRONICS INC	
SAN DIEGO CA	619-274-7242
TNR TECHNICAL INC DEER PARK NY	516-242-4800
ADV PG 31	
ZIERICK MFG CORP MOUNT KISCO NY	914-666-2911
Accessories for Electronics Inc Baldwin NY	516-546-1751
Accurate Electronics Corp Elyria OH	216-365-1211
Acme Model Engineering Co Ridgfield NJ	201-943-7650
Amrad Div Transcon Mfg Co Ft Smith AR	501-452-3987
Aristo-Craft New York NY	212-924-4041
Augat Inc Attleboro MA	617-222-2202
Imtronics Industries Ltd St Petersburg FL	813-577-9010
Keystone Electronics Corp New York NY	212-475-4600
Kingston Metal Specialties Kingston PA	717-288-5411
LZR Electronics Inc Galtersburg MD	301-921-9440
Memory Protection Devices Inc	
Farmingdale NY	516-454-0340
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
Mouser Electronics Mansfield TX	817-483-0165
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA	818-781-0505
Oneida Electronic Mfg Inc Meadville PA	814-336-2125
Pan American Trade Development Corp	
New York NY	212-481-1800
Panasonic Industrial Co Battery Sales Div	
Secaucus NJ	201-348-5266
Philmore Mfg Co Inc Inwood NY	516-239-6161
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Sager Hingham MA.....	617-749-6700
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Specialty Electronics Inc Landrum SC.....	803-457-3824
Stevens Products Inc East Orange NJ.....	201-672-2140
Tauber Electronics Inc San Diego CA.....	619-274-7242
TNR Technical Inc Deer Park NY.....	516-242-4800
Workman Electronic Products Inc Sarasota FL.....	800-237-6666
Zierlich Mfg Corp Mount Kisco NY.....	914-666-2911

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AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
CORD ELECTRONICS INC WESTBURY NY.....	516-935-3640
CURTIS INSTRUMENTS INC MT KISCO NY.....	914-666-2971
MOUSER ELECTRONICS MANSFIELD TX.....	617-483-0165
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
AEG Corporation Somerville NJ.....	201-722-9800
Anderson Power Products Boston MA.....	617-787-5880
Calibron Instruments Div Burton-Rogers Co Waltham MA.....	617-894-6440
Cord Electronics Inc Westbury NY.....	516-935-3640
Curtis Instruments Inc Mt Kisco NY.....	914-666-2971
ECO Instruments Div Sea Data Corp Newton MA.....	617-964-8360
E I L Instruments Inc Sparks MD.....	301-771-4800
EMICO Inc Dublin PA.....	215-249-9330
Faria Corp Thos G Uncasville CT.....	203-848-9271
Flight Systems Mechanicsburg PA.....	717-697-0333
Hickok Electrical Instrument Co Cleveland OH.....	216-541-8060
Imtronics Industries Ltd St Petersburg FL.....	813-577-9010
Kurz Instruments Inc Carmel Valley CA.....	408-659-3421
Mouser Electronics Mansfield TX.....	617-483-0165
Parko Electronics Co Inc Irvine CA.....	714-660-8014
Power Group International Richfield MN.....	612-890-1360
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Winland Electronics Inc Mankato MN.....	507-625-7231
Yardney Battery Div Pawcatuck CT.....	203-599-1100

BATTERY TESTERS

See Testers—Battery

BEACONS

See Radar Systems—Beacon; Receivers, Radio
Navigation; Transmitters, Radio Navigation

BEAD CHAINS

See Chains

BEADS

See Ceramic Beads; Plastic Beads

BEARINGS—BALL OR ROLLER

SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
Bearing Inspection Inc Santa Fe Springs CA.....	213-944-6251
Berg Inc Winfred M East Rockaway NY.....	516-599-5010
Boston Gear Quincy MA.....	617-328-3300
Fafnir Bearing Div Textron Inc New Britain CT.....	203-225-5151
Jilson Corp, The Hackensack NJ.....	201-488-4646
Kaydon Corp Muskegon MI.....	616-755-3741
Mac Bearing & Electronics Woburn MA.....	617-933-2110
PIC Design Middlebury CT.....	203-758-8272
Plastiglide Mfg Corp Hawthorne CA.....	213-777-8108
Raway Bearing Corp Monsey NY.....	914-352-4944
Reliance Electric Co Cleveland OH.....	800-245-4497
Rexnord Inc Milwaukee WI.....	414-643-3000
RMB Miniature Bearings Ramsey NJ.....	201-825-8383
Rogers Corp Rogers CT.....	203-774-9605
Rogers Corp ATD Lithonia GA.....	404-981-9830
Scientific Alloys Inc Fairfield NJ.....	201-575-4070
Shamban & Co W S Santa Monica CA.....	213-397-2195
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
SKF Industries Inc King of Prussia PA.....	215-265-1900
Sterling Instrument Div Designatronics Inc New Hyde Park NY.....	516-328-3300
Stock Drive Products Inc Div Designatronics New Hyde Park NY.....	516-328-0200
TRW Inc Bearings Div Jamestown NY.....	716-661-2600

BEARINGS—GLASS

Atlantic Optical Moulding Co Dudley MA.....	617-943-1746
General Ruby & Sapphire Corp New Port Richey FL.....	813-849-0638
Jilson Corp, The Hackensack NJ.....	201-488-4646
Moser Jewel Co Perth Amboy NJ.....	201-442-3434

BEARINGS—JEWEL, DIAMOND

General Ruby & Sapphire Corp New Port Richey FL.....	813-849-0638
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BEARINGS—JEWEL, SAPPHIRE

Atomergic Chemetals Corp Plainview NY.....	516-349-8800
General Ruby & Sapphire Corp New Port Richey FL.....	813-849-0638

Larsen Precision Components Corp New York NY.....	212-233-2491
Moser Jewel Co Perth Amboy NJ.....	201-442-3434
Swiss Jewel Co Philadelphia PA.....	215-925-2867

BEARINGS—MINIATURE NEEDLE

SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
Berg Inc Winfred M East Rockaway NY.....	516-599-5010
Kaydon Corp Muskegon MI.....	616-755-3741
Raway Bearing Corp Monsey NY.....	914-352-4944
RMB Miniature Bearings Ramsey NJ.....	201-825-8383
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
SKF Industries Inc King of Prussia PA.....	215-265-1900
Southwest Products Co Monrovia CA.....	818-358-0181
Stock Drive Products Inc Div Designatronics New Hyde Park NY.....	516-328-0200

BEARINGS—PRECISION INSTRUMENT

GRAPHITE METALLIZING CORP

YONKERS NY.....	914-968-8400
ADV PG 47	
Bearing Inspection Inc Santa Fe Springs CA.....	213-944-6251
Bendix Corp Fluid Power Div Utica NY.....	315-797-2500
Berg Inc Winfred M East Rockaway NY.....	516-599-5010
Boston Gear Quincy MA.....	617-328-3300
Fafnir Bearing Div Textron Inc New Britain CT.....	203-225-5151
General Ruby & Sapphire Corp New Port Richey FL.....	813-849-0638
Graphite Metallizing Corp Yonkers NY.....	914-968-8400
Kaydon Corp Muskegon MI.....	616-755-3741
Mac Bearing & Electronics Woburn MA.....	617-933-2110
PIC Design Middlebury CT.....	203-758-8272
Raway Bearing Corp Monsey NY.....	914-352-4944
RMB Miniature Bearings Ramsey NJ.....	201-825-8383
Rogers Corp Rogers CT.....	203-774-9605
Rogers Corp ATD Lithonia GA.....	404-981-9830
SKF Industries Inc King of Prussia PA.....	215-265-1900
Southwest Products Co Monrovia CA.....	818-358-0181
Sterling Instrument Div Designatronics Inc New Hyde Park NY.....	516-328-3300
Stock Drive Products Inc Div Designatronics New Hyde Park NY.....	516-328-0200
TRW Inc Bearings Div Jamestown NY.....	716-661-2600

BEARINGS—TAPERED

Bearing Inspection Inc Santa Fe Springs CA.....	213-944-6251
Berg Inc Winfred M East Rockaway NY.....	516-599-5010
Boston Gear Quincy MA.....	617-328-3300
Kaydon Corp Muskegon MI.....	616-755-3741
Reliance Electric Co Cleveland OH.....	800-245-4497
SKF Industries Inc King of Prussia PA.....	215-265-1900

BELLOWS

AME Corp Little Falls NJ.....	201-256-3939
Bellab Div Pacific Scientific Inc Daytona Beach FL.....	904-253-0628
Berg Inc Winfred M East Rockaway NY.....	516-599-5010
Minor Rubber Co Inc Bloomfield NJ.....	201-338-6800
PIC Design Middlebury CT.....	203-758-8272
Servometer Corp Cedar Grove NJ.....	201-785-4630
Sterling Instrument Div Designatronics Inc New Hyde Park NY.....	516-328-3300
Stock Drive Products Inc Div Designatronics New Hyde Park NY.....	516-328-0200
Westport Dev & Mfg Co Inc Orange CT.....	203-795-0871

BELTS—DIAL

See Dial Drive Belts

BELTS—DRIVE

HUNTER PRODUCTS INC BRIDGEWATER NJ.....	201-526-8440
Apple Rubber Products Inc Lancaster NY.....	716-684-6560
Berg Inc Winfred M East Rockaway NY.....	516-599-5010
Dayco Corp Dayton OH.....	513-226-7000
Hunter Products Inc Bridgewater NJ.....	201-526-8440
Parker Hannifin Corp Seal Group Lexington KY.....	606-269-2351
Parker Seal Group Lexington KY.....	606-269-2351
PIC Design Middlebury CT.....	203-758-8272
Stock Drive Products Inc Div Designatronics New Hyde Park NY.....	516-328-0200
Tex-Tech Industries Inc Middletown CT.....	203-632-2211

BELTS—SANDING

See Abrasives

Use the green pages
for local information.

BENCHES & STOOLS

KALAMAZOO TECHNICAL FURNITURE INC KALAMAZOO MI ADV PG 39	616-385-2255
Air Control Inc Huntingdon Valley PA	215-322-5800
Alden Products Co Brockton MA	617-583-0160
Alden Systems Co Brockton MA	617-583-0160
Bay Products Div Amer Metal Wks Inc Philadelphia PA	215-338-7300
Clean Room Products Inc Ronkonkoma NY	516-588-7000
Controlled Environment Equipment Corp Westbrook ME	207-854-9126
Electronic Tool Co Inc Pleasantville NY	914-769-8070
Hodge Mfg Co Inc Springfield MA	413-781-6800
Kalamazoo Technical Furniture Inc Kalamazoo MI	616-385-2255
Kewaunee Scientific Equip Corp Flex Furniture Div Plainwell MI	616-685-6831
Kingston Metal Specialties Kingston PA	717-288-5411
Lear Siegler Inc Santa Monica CA	213-452-5444
Line-Master Products Lawndale CA	213-772-5255
Lista International Corp Holliston MA	617-429-1350
Lyon Metal Products Inc Aurora IL	312-892-8941
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Parent Metal Products Philadelphia PA	215-332-6800
Penco Products Inc Oaks PA	215-666-0500
Production Industries Inc Pacoima CA	818-896-0555
Pure Aire Corp Canoga Pk CA	818-998-3876
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Stanley-Vidmar Inc Allentown PA	215-797-6600
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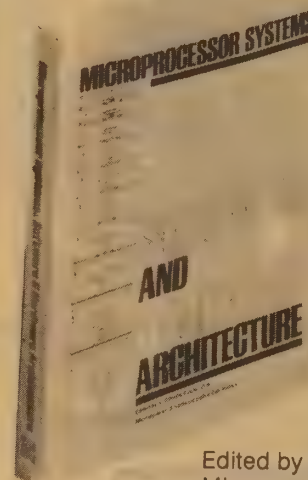
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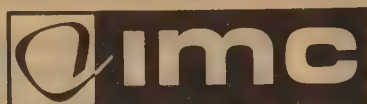
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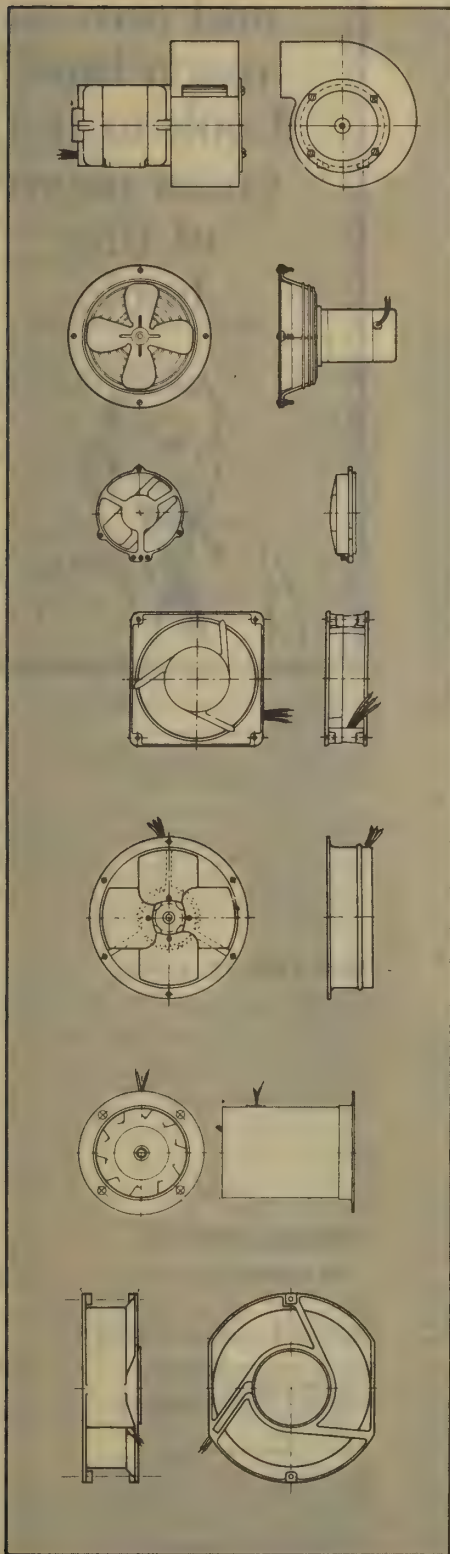
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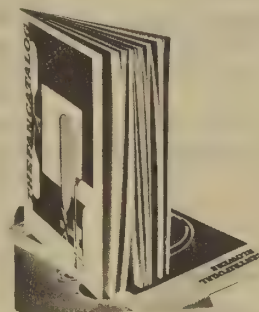
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A Subs US Box Crafts Inc Brooklyn NY	718-387-1510
Bal Corp William Elizabeth NJ	201-354-9625
Bay Products Div Amer Metal Wks Inc	
Philadelphia PA	215-338-7300
Berg Inc Winfred M East Rockaway NY	516-599-5010
Conductive Containers Inc Northbrook IL	312-480-7887
Corrugated Paper Products Inc Roosevelt NY	516-379-8200
Craig Systems Corp Amesbury MA	617-388-5662
Daniels Inc C R Elicott City MD	301-461-2100
Donray Co Cleveland OH	216-449-6450
ECS Composites Grants Pass OR	503-476-8871
Elzee Metal Products Co Inc Brooklyn NY	718-435-5000
Engineered Plastics Inc Gibsonville NC	919-449-4121
Flambeau Products Corp Middlefield OH	216-632-1631
Fox Co C J Providence RI	800-556-6868
Gemini Inc Cannon Falls MN	507-263-3957
Hardigg Industries Inc South Deerfield MA	413-665-2163
Instrument Enclosures Sun Valley CA	818-788-4622
InterMetro Industries Corp Wilkes-Barre PA	717-825-2741
International Instrumentation Inc	
Westlake Village CA	818-991-9614
Kingston Metal Specialties Kingston PA	717-288-5411
Klein Tools Inc Chicago IL	312-677-9500
Kole Industries Inc Miami FL	305-633-2556
Line-Master Products Lawndale CA	213-772-5255
Lista International Corp Holliston MA	617-429-1350
Lyon Metal Products Inc Aurora IL	312-892-8941
Henry Mann Inc Huntingdon Valley PA	215-355-7200
3M Co Static Control Systems Austin TX	800-328-1368
Parsons Mfg Corp Menlo Park CA	415-324-4726
Partfolio Inc San Rafael CA	415-459-1087
Prevent Static Inc Pennsauken NJ	609-665-5595
Rectico Inc Fairfield NJ	201-575-0009
Schry-Way Cases Pasadena CA	818-798-1166
Skydyne A Brooks & Perkins Div AAR Corp	
Port Jervis NY	914-856-6655
Stanley-Vidmar Inc Allentown PA	215-797-6600
Thermodyne Intl Ltd Long Beach CA	213-603-1976
Tulox Plastics Corp Marion IN	317-664-5155
U S Box Corp Newark NJ	201-481-2000
Unitrack Div Calabro Industries Inc	
West Chester PA	215-692-0800
Wescorp Div DAL Indus Inc Mt View CA	415-969-7717
Zero Corp Burbank CA	818-846-4191

BRAKES & CLUTCHES—ELECTROMAGNETIC

AEG CORPORATION SOMERVILLE NJ	201-722-9800
REGDON CORP BROOKFIELD IL	312-485-5152
AEG Corporation Somerville NJ	201-722-9800
Amibi-Tech Industries Inc Hillsdale NJ	201-666-0504
B & B Motor & Control Corp Burlington CT	718-784-1313
Boston Gear Quincy MA	617-328-3300
Component Specialties Corp Temple City CA	213-287-3221
Deltran Div American Precision Inds Inc	
Buffalo NY	716-631-9800
Eaton Corp/Outler-Hammer Products	
Milwaukee WI	414-449-6000
Fae Industries Inc Huntington Station NY	516-271-0300
Holmes Co Carl E Los Angeles CA	213-256-2255
Louis Allis Div MagneTek Inc Milwaukee WI	414-481-6000
Magtrol Corp Buffalo NY	716-668-5555
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Orbit Instrument Corp Hauppauge NY	516-435-8300
PIC Design Middlebury CT	203-758-8272
Regdon Corp Brookfield IL	312-485-5152
Reuland Electric Co City of Industry CA	213-964-6411

Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
Square D Co Palatine IL	312-397-2600
Sterling Instrument Div Designatronics Inc	
New Hyde Park NY	516-328-3300
Stock Drive Products Inc Div Designatronics	
New Hyde Park NY	516-328-0200
Vernitex Div Vernitron Corp Deer Park NY	516-586-5100
Warner Electric Brake & Clutch Co	
South Beloit IL	815-389-3771

BRAKES & CLUTCHES—ELECTROMECHANICAL

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
B & B Motor & Control Corp Burlington CT	718-784-1313
Deltran Div American Precision Inds Inc	
Buffalo NY	716-631-9800
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Fae Industries Inc Huntington Station NY	516-271-0300
Louis Allis Div MagneTek Inc Milwaukee WI	414-481-6000
McDonnell Douglas Electronics St Charles MO	314-925-4000
Micro Mo Electronics Inc St Petersburg FL	813-822-2529
MPC Products Corp Skokie IL	312-673-8300
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Orbit Instrument Corp Hauppauge NY	516-435-8300
PIC Design Middlebury CT	203-758-8272
Reuland Electric Co City of Industry CA	213-964-6411
Vernitex Div Vernitron Corp Deer Park NY	516-586-5100
Warner Electric Brake & Clutch Co	
South Beloit IL	815-389-3771

BRAKES & CLUTCHES—MECHANICAL (INCL. FRICTION)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
BEI MOTION SYS CO KIMCO DIV	
SAN MARCOS CA	619-744-5671
GRAPHITE METALLIZING CORP	
YONKERS NY	914-968-8400
ADV PG 47	
AEG Corporation Somerville NJ	201-722-9800
BEI Motion Sys Co Kimco Div	
San Marcos CA	619-744-5671
Berg Inc Winfred M East Rockaway NY	516-599-5010
Emporium Specialties Co Inc Austin PA	814-647-8661
Fae Industries Inc Huntington Station NY	516-271-0300
Geatronics Corp N Billerica MA	617-933-1400
Graphite Metallizing Corp Yonkers NY	914-968-8400

Jan Hardware Mfg Co Inc	
Long Island City NY	212-361-0800
Magtrol Corp Buffalo NY	716-668-5555
Orbit Instrument Corp Hauppauge NY	516-435-8300
PIC Design Middlebury CT	203-758-8272
Precision Mechanisms Corp Westbury NY	516-333-5955
Reliance Electric Co Cleveland OH	800-245-4497
Reuland Electric Co City of Industry CA	213-964-6411
Supertec Gear & Instrument Corp	
Hauppauge NY	516-582-9080
Vernitex Div Vernitron Corp Deer Park NY	516-586-5100
Warner Electric Brake & Clutch Co	
South Beloit IL	815-389-3771

BRASS

See Metals—Brass & Bronze

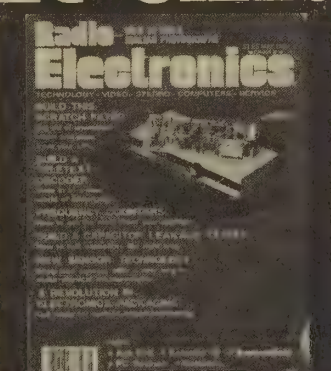
BRAZING ALLOYS & PREFORMS

Alpha Metals Inc Jersey City NJ	201-434-6778
Budd Cato Assoc Inc Brielle NJ	201-528-7439
Cominco Electronic Materials Inc	
Spokane WA	509-924-2200
Degussa Corp So Plainfield NJ	201-757-6500
Engelhard Industries Iselin NJ	201-321-5900
GTE Precision Materials Danvers MA	617-777-1900
Handy & Harman New York NY	212-752-3400
Indium Corp of America Utica NY	315-797-1630
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Scientific Alloys Inc Fairfield NJ	201-575-4070
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Semiconductor Packaging Materials Co	
Mamaroneck NY	914-698-5353
SMC Carbon Products Fairfield NJ	201-227-2432
Wilkinson Co Westlake Village CA	818-889-0050
Williams Gold Refining Co Inc Precious Metals Div	
Buffalo NY	716-837-1000

BRAZING FLUXES & SOLVENTS

Alpha Metals Inc Jersey City NJ	201-434-6778
Barco Chemical Products Inc Chicago IL	312-427-2916
Caig Labs Inc Escondido CA	619-743-7143
Degussa Corp So Plainfield NJ	201-757-6500
Electronic Tool Co Inc Pleasantville NY	914-769-8070
Engelhard Industries Iselin NJ	201-321-5900
Grobet File Co of America Inc Carlstadt NJ	201-939-6700
Handy & Harman New York NY	212-752-3400
Indium Corp of America Utica NY	315-797-1630
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Berg Inc Winfred M East Rockaway NY..... 516-599-5010
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Ft Wayne IN..... 219-747-3121
dataCon Inc The Wire Wrappers
Burlington MA..... 617-273-5800
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Gap Instrument Corp Smithtown NY..... 516-273-0909
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Rockford IL..... 815-968-9661
Global Specialties Corp New Haven CT..... 203-624-3103
Hestia Industries & Technologies
Santa Clara CA..... 408-737-1212
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Hybricon Corp Littleton MA..... 617-486-0311
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Huntington Beach CA..... 714-891-5305
Keystone Electronics Corp New York NY..... 212-475-4600
Leighton Electronics Inc Leighton PA..... 215-377-5990
Logical Design Group Inc Raleigh NC..... 919-834-8827
Midland-Ross Corp Electronic Connector Div
Cambridge MA..... 617-491-5400
Mupac Corp Brockton MA..... 617-588-6110
Northern Automatic Assembly Inc
Shoreview MN..... 612-481-0022

PIC Design Middlebury CT..... 203-758-8272
Sager Hingham MA..... 617-749-6700
Scanbee Div Zero Corp El Monte CA..... 818-579-2300
Sterling Instrument Div Designtronics Inc
New Hyde Park NY..... 516-328-3300
Time Zero Corp Clifton NJ..... 201-340-0400
Vector Electronic Co Inc Sylmar CA..... 818-365-9661
Wire Graphics Inc Farmingdale NY..... 516-293-1525

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Genstar Rental Electronics Inc
Woodland Hills CA..... 818-887-4000
Wayne Kerr Inc Woburn MA..... 617-938-8390

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ADV PG 46
IET LABS INC WESTBURY NY..... 516-334-5959
American HV Test Systems Inc Accident MD..... 301-826-8651
Andeen-Hagerling Inc Chagrin Falls OH..... 216-349-0370
Biddle Instruments-Sensitek Blue Bell PA..... 215-646-9200
Boonton Electronics Corp Randolph NJ..... 201-584-1077
Cambridge Technology Inc Cambridge MA..... 617-876-0891
Electro Scientific Industries Inc Portland OR..... 503-641-4141
Gen Rad Inc Waltham MA..... 617-369-4400
Genstar Rental Electronics Inc
Woodland Hills CA..... 818-887-4000
Guidline Instruments Inc Orlando FL..... 305-423-8215
Hewlett-Packard Palo Alto CA..... 415-857-8000
IET Labs Inc Westbury NY..... 516-334-5959
Leeds & Northrup Instruments
North Wales PA..... 215-643-2000
Pioneer Instrumentation Div Pioneer Std
Cleveland OH..... 216-587-3600
RE Instruments Corp Westlake OH..... 216-871-7617
Rutherford Research Co Rutherford NJ..... 201-933-2091
Tetex Instruments Inc Fairview Village PA..... 215-539-6050
Wayne Kerr Inc Woburn MA..... 617-938-8390

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IET LABS INC WESTBURY NY..... 516-334-5959
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WESTLAKE VILLAGE CA..... 818-991-9614
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Cambridge Technology Inc Cambridge MA..... 617-876-0891
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Heath Co Benton Harbor MI..... 616-982-3200
Hewlett-Packard Palo Alto CA..... 415-857-8000
IET Labs Inc Westbury NY..... 516-334-5959
International Instrumentation Inc
Westlake Village CA..... 818-991-9614
Racal-Dana Instruments Inc Irvine CA..... 714-859-8999
RE Instruments Corp Westlake OH..... 216-871-7617
Sennheiser Electronic Corp (NY)
New York NY..... 212-944-9440
Tetex Instruments Inc Fairview Village PA..... 215-539-6050
Wayne Kerr Inc Woburn MA..... 617-938-8390

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Gen Rad Inc Waltham MA..... 617-369-4400
Leeds & Northrup Instruments
North Wales PA..... 215-643-2000
RE Instruments Corp Westlake OH..... 216-871-7617
Slaughter Co Ardmore OK..... 405-223-4773
Wayne Kerr Inc Woburn MA..... 617-938-8390

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Adams-Russell Co Inc Anzac Div
Burlington MA..... 617-273-3333
Blonder-Tongue Labs Inc Old Bridge NJ..... 201-679-4000
Boonton Electronics Corp Randolph NJ..... 201-584-1077
Delta Electronics Inc Alexandria VA..... 703-354-3350
Electro Scientific Industries Inc Portland OR..... 503-641-4141
Gen Rad Inc Waltham MA..... 617-369-4400
Genstar Rental Electronics Inc
Woodland Hills CA..... 818-887-4000
Harris Corp Govt Support Sys Div
Syosset NY..... 516-364-0400
Hewlett-Packard Palo Alto CA..... 415-857-8000
Leader Instruments Corp Hauppauge NY..... 516-231-6900
Marconi Instruments Div Marconi Elctns Inc
Allendale NJ..... 201-934-9050
Palomar Engineers Escondido CA..... 619-747-3343
RE Instruments Corp Westlake OH..... 216-871-7617
Telonic/Berkeley Laguna Beach CA..... 714-494-9401
Tucker Electronics Co Garland TX..... 214-348-8800
Wayne Kerr Inc Woburn MA..... 617-938-8390
Weinschel Engineering Co Inc
Gaithersburg MD..... 301-948-3434
Wide Band Engineering Co Inc Phoenix AZ..... 602-254-1570

BRIDGES—IMPEDANCE, MICROWAVE

Adams-Russell Co Inc Anzac Div
Burlington MA..... 617-273-3333
Genstar Rental Electronics Inc
Woodland Hills CA..... 818-887-4000
Harris Corp Govt Support Sys Div
Syosset NY..... 516-364-0400
Hughes Aircraft Co Microwave Prods Div
Torrance CA..... 213-517-6400
Microwave Development Labs Inc Natick MA..... 617-655-0060
The Narda Microwave Corp Hauppauge NY..... 516-231-1700
Struthers Electronics Corp Farmingdale NY..... 516-420-9000
Telonic/Berkeley Laguna Beach CA..... 714-494-9401
Texscan Corp Phoenix AZ..... 602-252-5021
Weinschel Engineering Co Inc
Gaithersburg MD..... 301-948-3434
Wiltron Co Morgan Hill CA..... 408-778-2000

BRIDGES—INDUCTANCE

BOONTON ELECTRONICS CORP
RANDOLPH NJ..... 201-584-1077
ADV PG 46
IET LABS INC WESTBURY NY..... 516-334-5959
Boonton Electronics Corp Randolph NJ..... 201-584-1077
Cambridge Technology Inc Cambridge MA..... 617-876-0891
Electro Scientific Industries Inc Portland OR..... 503-641-4141
Freed Transformer Co Inc Ridgewood NY..... 718-386-1300
Gen Rad Inc Waltham MA..... 617-369-4400
Genstar Rental Electronics Inc
Woodland Hills CA..... 818-887-4000
Heath Co Benton Harbor MI..... 616-982-3200
Hewlett-Packard Palo Alto CA..... 415-857-8000
IET Labs Inc Westbury NY..... 516-334-5959
Marconi Instruments Div Marconi Elctns Inc
Allendale NJ..... 201-934-9050
RE Instruments Corp Westlake OH..... 216-871-7617
Wayne Kerr Inc Woburn MA..... 617-938-8390

BRIDGES—POWER, MICROWAVE

GENERAL MICROWAVE CORP
AMITYVILLE NY..... 516-226-8900
Aristo-Craft New York NY..... 212-924-4041
General Microwave Corp Amityville NY..... 516-226-8900
Genstar Rental Electronics Inc
Woodland Hills CA..... 818-887-4000
Harris Corp Govt Support Sys Div
Syosset NY..... 516-364-0400
Hewlett-Packard Palo Alto CA..... 415-857-8000
Struthers Electronics Corp Farmingdale NY..... 516-420-9000
Weinschel Engineering Co Inc
Gaithersburg MD..... 301-948-3434

BRIDGES—POWER, RF (EXCEPT MICROWAVE)

Delta Electronics Inc Alexandria VA..... 703-354-3350
Genstar Rental Electronics Inc
Woodland Hills CA..... 818-887-4000
Harris Corp Govt Support Sys Div
Syosset NY..... 516-364-0400
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BRIDGES—Q

Gen Rad Inc Waltham MA..... 617-369-4400
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Woodland Hills CA..... 818-887-4000
Hewlett-Packard Palo Alto CA..... 415-857-8000
Marconi Instruments Div Marconi Elctns Inc
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Racal-Dana Instruments Inc Irvine CA..... 714-859-8999
Rutherford Research Co Rutherford NJ..... 201-933-2091
Tetex Instruments Inc Fairview Village PA..... 215-539-6050
Wayne Kerr Inc Woburn MA..... 617-938-8390

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Electrical Instrument Service Inc
Mt Vernon NY..... 914-699-9717
Electronic Development Labs Inc
Hauppauge NY..... 516-435-2808
Electro Scientific Industries Inc Portland OR..... 503-641-4141
Epic Inc New York NY..... 212-349-2470
General Resistance Inc N Branford CT..... 203-481-5721
Gen Rad Inc Waltham MA..... 617-369-4400
Genstar Rental Electronics Inc
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Guidline Instruments Inc Orlando FL..... 305-423-8215
IET Labs Inc Westbury NY..... 516-334-5959
Julie Research Labs Inc New York NY..... 212-245-2727
Leeds & Northrup Instruments
North Wales PA..... 215-643-2000
Penn Airborne Products Co Southampton PA..... 215-355-3400
Photofabrication Technology Inc Derry NH..... 603-432-1200
Pioneer Instrumentation Div Pioneer Std
Cleveland OH..... 216-587-3600
RE Instruments Corp Westlake OH..... 216-871-7617

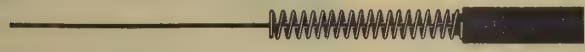


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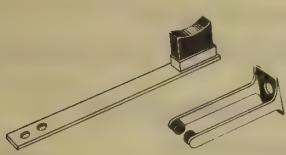
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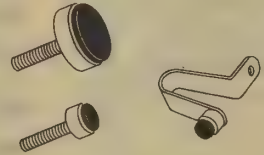


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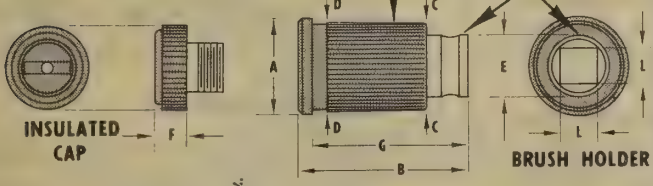
LEAF SPRINGS



CUP CONTACTS

GRAPHALLOY BRUSH HOLDERS

Tapered Insulating Bushing Brass Body



BRUSH HOLDER & CAP NO.	BRUSH SIZE	SUGGESTED MIN. SLIP-RING WIDTH	HOLE DIAMETER	BRUSH HOLDER TO SLIP-RING-MIN.	OVERALL LENGTH								BROACHED HOLE
					A	B	F	C	D	E	G	L	
14326	1/8" sq.	3/16"	13/32"	1/16"	.437"	7/8"	3/16"	.404"	.418"	.281"	25/32"	.129"	
11509†	5/32" sq.	1/4"	13/32"	1/16"	.437"	7/8"	3/16"	.404"	.418"	.281"	25/32"	.160"	
11570†	3/16" sq.	1/4"	7/16"	1/16"	.484"	7/8"	3/16"	.441"	.451"	.313"	25/32"	.193"	
19011†	1/4" x 3/16"	5/16"	7/16"	1/8"	.616"	15/16"	3/16"	.561"	.573"	.438"	13/16"	.256 x .193"	
11527†	1/4" sq.	5/16"	7/16"	1/8"	.616"	15/16"	3/16"	.561"	.573"	.438"	13/16"	.256"	
14292†	3/8" x 1/4"	7/16"	43/64"	1/8"	.718"	17/16"	1/4"	.672"	.682"	.533"	15/16"	.382 x .256"	
12166†	3/8" sq.	7/16"	13/16"	1/8"	.921"	13/16"	1/4"	.813"	.828"	.628"	15/8"	.382"	
31392†	1/2" sq.	7/16"	1 1/8"	1/8"	1.237"	1 13/16"	1/4"	1.126"	1.141"	.878"	1 1/16"	.503"	
35439†	3/4" x 1/2"	7/8"	1 3/4"	1/8"	1.661"	2 1/32"	5/16"	1.508"	1.528"	1.253"	1 25/32"	.753"	
35440†	3/4" sq.	7/8"	1 3/4"	1/8"	1.661"	2 1/32"	5/16"	1.508"	1.528"	1.253"	1 25/32"	.753"	

† Shunts are provided. ** Mounting hole diameter for brush holder dimension D.

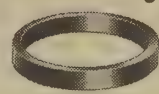
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We supply Coin Silver and Bronze Slip Rings, both cylindrical and flat types ... and recommend three brushes per ring ... spaced at 120° ... for best contact. The cylindrical type are designed for press fitting over standard steel shafting. The flat type rings are designed for nesting either on an insulated plate or for molding into insulation. Insulated slip rings of either type, or slip-ring assemblies, can be furnished with leads attached.



No. 168 Series
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to 20" O.D.

Standard FLAT Rings have 1/4" radial contact surface and 1/8" radial spacing between adjacent rings.

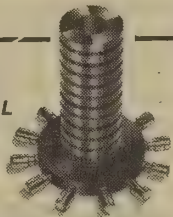


No. 116 Series
CYLINDRICAL TYPE
to 36" O.D.



Typical Layout

Model 319
CYLINDRICAL
SLIP-RING
Assembly



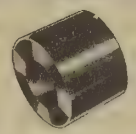
Model 409
FLAT SLIP-RING
Assembly



SOLID COIN SILVER RINGS		
Model	Rings	Length
319-4	4	2 9/16"
319-6	6	3 5/16"
319-10	10	4 13/16"
319-14	14	6 5/16"
O.D. Slip Ring 1 1/8"		
Terminal 4"		
Assembly I.D. .814/.813"		

SOLID COIN SILVER RINGS		
Model	Rings	O.D. "A"
409-2	2	5 1/2"
409-4	4	7"
409-6	6	8 1/2"
409-10	10	11 1/2"
Hub O.D. 2"		
I.D. 1.753/1.751"		
Length 1 1/8"		
To 5 Amps., 125 V.		
More rings on application.		

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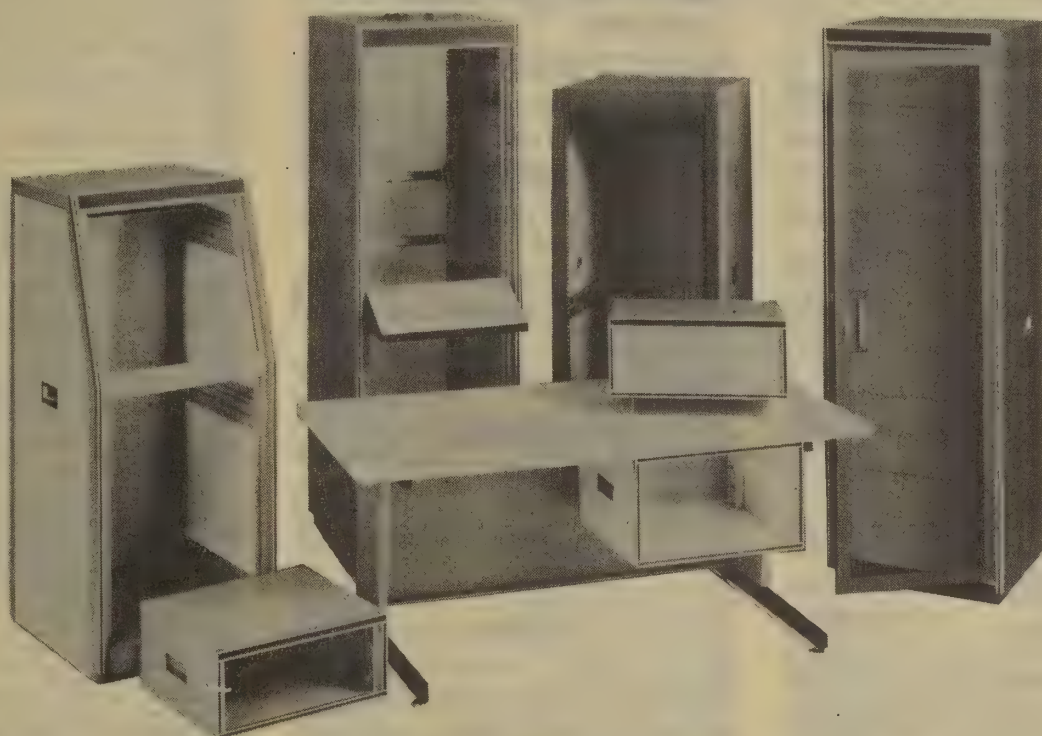
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ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
TIME ZERO CORP CLIFTON NJ	201-340-0400
Andrew Corp Orland Park IL	312-349-3300
Arkana Capital Corp dba Webber Cable & Elctns	
Cerritos CA	213-404-2602
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Bergen Cable Technologies Inc Lodi NJ	201-987-3521
Berg Inc Winfred M East Rockaway NY	516-599-5010
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Cable Systems Inc Everett MA	617-389-7080
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Carolina Steel & Wire Corp Lexington SC	803-359-5501
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Electrowave Inc Worcester MA	617-752-8932
Ensign-Bickford Optics Co Avon CT	203-678-0371
FL Surprenant Wire & Cable Div Clinton MA	617-368-1401
Harbour Industries Inc Shelburne VT	802-985-3311
Icore International Inc Sunnyvale CA	408-732-5400
JSC Wire & Cable Wayne NJ	201-694-6200
Judd Wire Div High Voltage Engineering	
Turners Falls MA	413-863-4357
Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720
King Wire & Cable Corp Jamaica NY	718-657-4422
Lynn Electronics Corp Feasterville PA	215-355-8200
Madison Wire & Cable Corp Worcester MA	617-752-7320
Manhattan Electric Cable Corp Rye NY	609-455-8530
Markel Corp Norristown PA	215-272-8960
National Electric Cable Portland OR	503-620-9400
National-Standard Co Niles MI	616-683-8100
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Philadelphia Insulated Wire Co Inc	
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Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
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Rainbow Wire Corp Madison NJ	201-887-2550
Raychem Corp Menlo Park CA	415-361-3333
Reme Wire Products Corp Florida NY	914-651-4431
Rockbestos Co New Haven CT	203-772-2250
Rowe Industries Inc Toledo OH	419-729-9761
Sager Hingham MA	617-749-6700
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
Thermax Wire Corp Flushing NY	718-939-8300
Time Zero Corp Clifton NJ	201-340-0400
Vertex Electronics Inc Farmingdale NY	516-293-9880
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CORD ELECTRONICS INC WESTBURY NY	516-935-3640
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
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SAGER HINGHAM MA	617-749-6700
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WESTLAKE VILLAGE CA	818-707-2020
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Almor Co Inc Weymouth MA	617-331-8400
Alpha Wire Corp Elizabeth NJ	201-925-8000
American Electric Cable Co Holyoke MA	413-539-9893
American Insulated Wire Corp Pawtucket RI	401-726-0700
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Andrew Corp Orland Park IL	312-349-3300
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Ceramaseal Div Clevelpak Corp
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Electrowave Inc Worcester MA	617-752-8932
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Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
General Wire Products Inc Worcester MA	617-752-8260
Gore & Assoc Inc W L Newark DE	302-738-4880
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Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720
Kaman Instrumentation Corp	
Colorado Springs CO	303-599-1825
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Precision Tube Co Inc North Wales PA	215-699-5801
Rainbow Wire Corp Madison NJ	201-887-2550
Raychem Corp Menlo Park CA	415-361-3333
Remee Wire Products Corp Florida NY	914-651-4431
Reuter-Stokes Inc Twinsburg OH	216-425-3755
Rowe Industries Inc Toledo OH	419-729-9761
Sager Hingham MA	617-749-6700
Sealestro Corp Trumbull CT	203-372-4118
Storm Products Co Inglewood CA	213-776-8141
Telecommunication Devices Inc	
Downers Grove IL	312-971-3460
Thermax Wire Corp Flushing NY	718-939-8300
Times Fiber Communications Inc	
Wallingford CT	203-265-8500
Tru-Connector Corp Peabody MA	617-532-0775
United Microwave Products Inc Torrance CA	213-320-1244
Vortex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Wall Industries Inc Lawrence MA	617-688-1287
Wise Components Inc Greenwich CT	203-531-4880
Woven Electronics Corp Mauldin SC	803-963-5131
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

CABLES—COMPUTER (WITH CONNECTORS)

See Computer Cables

CABLES, FLAT—PRINTED & RIBBON

ALMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
ALMOR CO INC WETMOUTH MA	617-331-8400
AMP INC INCORPORATED HARRISBURG PA	717-564-0100
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
MUPAC CORP BROCKTON MA	617-588-6110
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SADA ELETTRONICA SPA PAVIA ITALY	382-4669 31
ADV PG 127	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Advanced Circuit Technology Inc Nashua NH	603-880-6000
AID Electronics Inc Irving TX	214-790-4761
Almo Electronics Inc Philadelphia PA	215-698-4000
Almor Co Inc Weymouth MA	617-331-8400
Alpha Wire Corp Elizabeth NJ	201-925-8000
American Electric Cable Co Holyoke MA	413-539-9893
Amilan Inc Stamford CT	203-322-1913
Amphenol Products Lisle IL	312-983-3500
AMP Incorporated Harrisburg PA	717-564-0100
AMP Products Corp Southeastern PA	215-647-1000
Argent Industries Inc Englewood OH	513-836-8633
Augat Inc Attleboro MA	617-222-2202
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Berk-Tek Inc Reading PA	215-376-8071
Birnbach Co Inc Farmingdale NY	516-420-9800
Boeing Electronics Tukwila WA	206-575-5755
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
C A M Graphics Inc Farmingdale NY	516-694-1315
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Carrott Components Corp Camarillo CA	805-484-0540
Chomerics Inc Woburn MA	617-935-4850
Cincinnati ElectroSystems Inc Loveland OH	513-831-4347
Circuit Assembly Corp Irvine CA	714-855-7887
Computer Cable & Products Inc	
Farmingdale NY	516-293-1610
C-W Industries Southampton PA	215-355-7080
Data Set Cable Co Ridgefield CT	203-438-9684
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
Electrowave Inc Worcester MA	617-752-8932
Ensign-Bickford Optics Co Avon CT	203-678-0371
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
Gore & Assoc Inc W L Newark DE	302-738-4880

H & T Components Inc Bohemia NY	516-567-2282
Injectal Electronics Corp Glen Cove NY	516-671-6010
Inmac Santa Clara CA	408-727-1970
JPM Co Lewisburg PA	717 523-1101
Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720
Keene Corp Laminates Div	
East Providence RI	401-434-2340
Kinetic Cable Co Garden Grove CA	714-638-1442
King Wire & Cable Corp Jamaica NY	718-657-4422
Lectron Industries Inc Roselle NJ	201-245-5858
Liberty Copper & Wire Div MagneTek Inc	
Downers Grove IL	312-969-7660
Madison Wire & Cable Corp Worcester MA	617-752-7320
Manhattan Electric Cable Corp Rye NY	609-455-8530
Mantex Corp Oxford MI	313-628-9711
Masterite Industries Corp Torrance CA	213-775-3471
Methode Electronics Inc Chicago IL	312-867-9600
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
3M-Electronic Products Div Austin TX	512-834-1800
Molex Inc Lisle IL	312-969-4550
Mupac Corp Brockton MA	617-588-6110
National Electric Cable Portland OR	503-620-9400
New England Electric Wire Corp Lisbon NH	603-838-6629
Northern Automatic Assembly Inc	
Shoreview MN	612-481-0022
Offlex Wire & Cable Inc Fairfield NJ	201-575-1101
Oneida Electronic Mfg Inc Meadville PA	814-336-1255
Panduit Corp Tinley Park IL	312-532-2180
Parlex Corp Methuen MA	617-685-4341
Peerless Radio Corp Lynbrook NY	516-593-2121
Permaulster Inc Burbank CA	213-849-4543
Phoenix Wire Inc South Hero VT	802-372-4561
Rainbow Wire Corp Madison NJ	201-887-2550
Rapid Manufacturing Orange CA	714-974-2432
Raychem Corp Menlo Park CA	415-361-3333
SADA Elettronica SpA Pavia Italy	382-4669-31
Sager Hingham MA	617-749-6700
Santec Inc New Albany IN	812-944-6733
Sanders Associates Inc Nashua NH	603-885-4321
Shokai Far East Ltd Hartsdale NY	914-681-0700
Spectra-Strip Operations Garden Grove CA	714-892-3361
Storm Products Co Ingewood CA	213-776-8141
Support Systems Intl Cables & Access Div	
Richmond CA	415-234-9090
Tapecon Inc Rochester NY	716-621-8400
Telecommunication Devices Inc	
Downers Grove IL	312-971-3460
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5800
Ultra Products Manitou Beach MI	517-547-3161
Vertex Electronics Inc Farmingdale NY	516-293-9880
Winegard Co Burlington IA	319-753-0121
Woven Electronics Corp Mauldin SC	803-963-5131
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

CABLES, FLAT—PRINTED CUSTOM PATTERNS

AMP INCORPORATED HARRISBURG PA	717-564-0100
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
SADA ELETTRONICA SPA PAVIA ITALY	382-4669-31
ADV PG 127	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Advanced Circuit Technology Inc Nashua NH	603-880-6000
AMP Incorporated Harrisburg PA	717-564-0100
Argent Industries Inc Englewood OH	513-836-8633
Augat Inc Attleboro MA	617-222-2202
Augat Microtec Newbury Park CA	805-498-9643
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Birnbach Co Inc Farmingdale NY	516-420-9800
Boeing Electronics Tukwila WA	206-575-5755
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
C A M Graphics Inc Farmingdale NY	516-694-1315
Hughes Aircraft Co Connecting Devices Div	
Irvine CA	714-660-5701
Inmac Santa Clara CA	408-727-1970
Kinetic Cable Co Garden Grove CA	714-638-1442
King Wire & Cable Corp Jamaica NY	718-657-4422
Madison Wire & Cable Corp Worcester MA	617-752-7320
Methode Electronics Inc Chicago IL	312-867-9600
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
Nova-Tronix Inc Santa Clara CA	408-727-9530
Parlex Corp Methuen MA	617-685-4341
Photofabrication Technology Inc Derry NH	603-432-1200
Rainbow Wire Corp Madison NJ	201-887-2550
SADA Elettronica SpA Pavia Italy	382-4669-31
Sager Hingham MA	617-749-6700
Sanders Associates Inc Nashua NH	603-885-4321
SCI Systems Inc Huntsville AL	205-882-4800
Spectra-Strip Operations Garden Grove CA	714-892-3361
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

CABLES, FLAT—WOVEN

KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Augat Inc Attleboro MA	617-222-2202
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Cooner Wire Co Chatsworth CA	818-882-8311
Electrowave Inc Worcester MA	617-752-8932
GSI Corp Timonium MD	301-252-1768

Inmac Santa Clara CA	408-727-1970
Judd Wire Div High Voltage Engineering	
Turners Falls MA	413-863-4357
Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720
King Wire & Cable Corp Jamaica NY	718-657-4422
Peerless Radio Corp Lynbrook NY	516-593-2121
Sager Hingham MA	617-749-6700
Support Systems Intl Cables & Access Div	
Richmond CA	415-234-9090
Textro Inc Greer SC	803-879-0752
Vertex Electronics Inc Farmingdale NY	516-293-9880
Woven Electronics Corp Mauldin SC	803-963-5131
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

CABLES—MULTICONDUCTOR

ALMO ELECTRONICS INC PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
CONSOLIDATED ELECTRONIC WIRE & CABLE CORP FRANKLIN PARK IL	312-455-8830
ADV PG 55	
CORD ELECTRONICS INC WESTBURY NY	516-935-3640
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP RYE NY	609-455-8530
ADV PG 54	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
WISE COMPONENTS INC GREENWICH CT	203-531-4880
Almo Electronics Inc Philadelphia PA	215-698-4000
Alpha Wire Corp Elizabeth NJ	201-925-8000
American Electric Cable Co Holyoke MA	413-539-9893
American Insulated Wire Corp Pawtucket RI	401-726-0700
Arkana Capital Corp dba Webber Cable & Elctns	
Cerritos CA	213-404-2602
Augat Microtec Newbury Park CA	805-498-9643
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Berk-Tek Inc Reading PA	215-376-8071
Breeze-Illinois Inc Peoria IL	309-695-2511
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Cable Systems Inc Everett MA	617-389-7080
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Carol Cable Co Inc Elctn Cables Div	
Pawtucket RI	401-724-9605
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Champlain Cable Corp Winooski VT	802-655-2121
Chester Cable Corp Chester NY	914-469-2141
Coaxco Inc Tualatin OR	503-692-2900
Connector Systems Div BIW Santa Rosa CA	707-523-2300
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Cooner Wire Co Chatsworth CA	818-882-8311
Cord Electronics Inc Westbury NY	516-935-3640
Craig Data Cable Co Inc Stamford CT	203-356-9315
Crouse Hinds Electro Paramount CA	213-636-9321
Data Set Cable Co Ridgfield CT	203-438-9684
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
Electrowave Inc Worcester MA	617-752-8932
Estes Engineering Co Port Angeles WA	206-457-0904
FL Surprenant Wire & Cable Div Clinton MA	617-368-1401
Gavitt Wire & Cable Co Inc Brookfield MA	617-887-6476
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
General Reliance Corp Wharton NJ	201-361-1400
General Wire Products Inc Worcester MA	617-752-8260
Glenair Inc Glendale CA	818-247-6000
Gore & Assoc Inc W L Newark DE	302-738-4880
GSI Corp Timonium MD	301-252-1768
Harbour Industries Inc Shelburne VT	802-985-3311
H & T Components Inc Bohemia NY	516-567-2282
Inmac Santa Clara CA	408-727-1970
JPM Co Lewisburg PA	717-523-1101
JSC Wire & Cable Wayne NJ	201-694-6200
Judd Wire Div High Voltage Engineering	
Turners Falls MA	413-863-4357
Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720
Keene Corp Laminates Div	
East Providence RI	401-434-2340
Kinetic Cable Co Garden Grove CA	714-638-1442
King Wire & Cable Corp Jamaica NY	718-657-4422
L-Com Inc North Andover MA	617-682-6936
Lenz Electric Mfg Co Chicago IL	312-276-4454
Liberty Copper & Wire Div MagneTek Inc	
Downers Grove IL	312-969-7660
Lynn Electronics Corp Feasterville PA	215-355-8200
Madison Wire & Cable Corp Worcester MA	617-752-7320
Malco Div Microdot Inc Montgomeryville PA	215-699-5373
Manhattan Electric Cable Corp Rye NY	609-455-8530
Markel Corp Norristown PA	215-272-8960
Microtech Inc Boothwyn PA	215-459-3566
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
3M-Electronic Products Div Austin TX	512-834-1800
Mohawk Wire & Cable Co Leominster MA	617-537-9961
MWS Wire Industries Westlake Village CA	818-991-8553
National Electric Cable Portland OR	503-620-9400
National Wire & Cable Corp Los Angeles CA	213-225-5611
New England Electric Wire Corp Lisbon NH	603-838-6629
Offlex Wire & Cable Inc Fairfield NJ	201-575-1101
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Ora Electronics Div Alliance Rsch Corp	
Chatsworth CA	818-701-5848
Pace Wire & Cable Corp Oceanside NY	516-678-2275
Panel Components Corp Santa Rosa CA	707-523-0600
Park Distributors Inc Bridgeport CT	203-366-7200
Peerless Radio Corp Lynbrook NY	516-593-2121
Philadelphia Insulated Wire Co Inc	
Moorestown NJ	609-235-6700

Phoenix Wire Inc South Hero VT	802-372-4561
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Pycoc Inc Pennell PA	215-757-3704
Rainbow Wire Corp Madison NJ	201-887-2550
Rapid Manufacturing Orange CA	714-974-2432
Raychem Corp Menlo Park CA	415-361-3333
Remee Wire Products Corp Florida NY	914-651-4431
Reuter-Stokes Inc Twinsburg OH	216-425-3755
Revere Corp of America Wallingford CT	203-269-7701
Rockbestos Co New Haven CT	203-772-2250
Rockland Insulated Wire & Cable Co	
Haverstraw NY	914-429-3103
Rowe Industries Inc Toledo OH	419-729-9761
Royal Electric Div FL Indus Inc Pawtucket RI	401-722-8600
Sager Hingham MA	617-749-6700
Siecor Corp Hickory NC	704-327-5000
SOS Lighting Devices Div MEMCO	
Philadelphia PA	215-423-7077
Spectra-Strip Operations Garden Grove CA	714-892-3361
Storm Products Co Ingewood CA	213-776-8141
Support Systems Intl Cables & Access Div	
Richmond CA	415-234-9090
Teletype Technology Inc Greenlawn NY	516-423-3232
Telecommunication Devices Inc	
Downers Grove IL	312-971-3460
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5800
Textro Inc Greer SC	803-879-0752
Thermax Wire Corp Flushing NY	718-939-8300
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Times Fiber Communications Inc	
Wallingford CT	203-265-8500
Ultra Products Manitou Beach MI	517-547-3161
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Victor Wire & Cable Corp Los Angeles CA	213-870-9933
Whitmor Wire & Cable Corp	
North Hollywood CA	818-764-6296
Wise Components Inc Greenwich CT	203-531-4880
Woven Electronics Corp Mauldin SC	803-963-5131
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

CABLES, SHIELDED (NOT COAXIAL)—A-F (INCL. MICROPHONE)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ALMOR CO INC WEYMOUTH MA	617-331-8400
CONSOLIDATED ELECTRONIC WIRE & CABLE CORP FRANKLIN PARK IL	312-455-8830
ADV PG 55	
CORD ELECTRONICS INC WESTBURY NY	516-935-3640
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MAGNETIC SHIELD DIV PERFECTION MICA CO BENSENVILLE IL	312-766-7800
MANHATTAN ELECTRIC CABLE CORP RYE NY	609-455-8530
ADV PG 54	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
WISE COMPONENTS INC GREENWICH CT	203-531-4880
AEG Corporation Somerville NJ	201-722-9800
Almor Co Inc Weymouth MA	617-331-8400
Alpha Wire Corp Elizabeth NJ	201-925-8000
American Electric Cable Co Holyoke MA	413-539-9893
American Insulated Wire Corp Pawtucket RI	401-726-0700
Augat Microtec Newbury Park CA	805-498-9643
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Berk-Tek Inc Reading PA	215-376-8071
Breeze-Illinois Inc Peoria IL	309-695-2511
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Carol Cable Co Inc Elctn Cables Div	
Pawtucket RI	401-724-9605
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Champlain Cable Corp Winooski VT	802-655-2121
Chester Cable Corp Chester NY	914-469-2141
Chomerics Inc Woburn MA	617-935-4850
Coaxco Inc Tualatin OR	503-692-2900
Computer Cable & Products Inc	
Farmingdale NY	516-293-1610
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Cord Electronics Inc Westbury NY	516-935-3640
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
Electro-Cords Div Middlebury IN	219-825-9466
Electro-Voice Inc Sub Gulton Industries	
Buchanan MI	616-695-6831
Electrowave Inc Worcester MA	617-752-8932
Estes Engineering Co Port Angeles WA	206-457-0904
FL Surprenant Wire & Cable Div Clinton MA	617-368-1401
Gavitt Wire & Cable Co Inc Brookfield MA	617-887-6476
GC Electronics Div Household Inc	
Rockford IL	815-968-9661
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
General Wire Products Inc Worcester MA	617-752-8260
Glenair Inc Glendale CA	818-247-6000
Gore & Assoc Inc W L Newark DE	302-738-4880
Harbour Industries Inc Shelburne VT	802-985-3311
Inmac Santa Clara CA	408-727-1970
JPM Co Lewisburg PA	717-523-1101
JSC Wire & Cable Wayne NJ	201-694-6200
Judd Wire Div High Voltage Engineering	
Turners Falls MA	413-863-4357
Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720
Keene Corp Laminates Div	
East Providence RI	401-434-2340

King Wire & Cable Corp Jamaica NY.....	718-657-4422
-Com Inc North Andover MA.....	617-682-6936
Lenz Electric Mfg Co Chicago IL.....	312-276-4454
Lynn Electronics Corp Feasterville PA.....	215-355-8200
Magnetic Shield Div Perfection Mica Co Bensenville IL.....	312-766-7800
Malco Div Microdot Inc Montgomeryville PA.....	215-699-5373
Manger Electric Co Inc Stamford CT.....	203-348-7761
Manhattan Electric Cable Corp Rye NY.....	609-455-8530
Markel Corp Norristown PA.....	215-272-8960
Microtech Inc Boothwyn PA.....	215-459-3566
Midland-Ross Corp Electronic Connector Div Cambridge MA.....	617-491-5400
Mohawk Wire & Cable Co Leominster MA.....	617-537-9961
National Electric Cable Portland OR.....	503-620-9400
National Wire & Cable Corp Los Angeles CA.....	213-225-5611
New England Electric Wire Corp Lisbon NH.....	603-838-6629
Diflex Wire & Cable Inc Fairfield NJ.....	201-575-1101
Olympic Wire & Cable Corp Fairfield NJ.....	201-227-7996
Pace Wire & Cable Corp Oceanside NY.....	516-678-2275
Parlex Corp Methuen MA.....	617-685-4341
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Philmore Mfg Co Inc Inwood NY.....	516-239-6161
Pirelli Cable Corp Special Cable Div Wallingford CT.....	203-265-5533
Rainbow Wire Corp Madison NJ.....	201-887-2550
Raychem Corp Menlo Park CA.....	415-361-3333
Recoton Corp Long Island City NY.....	718-392-6442
Remee Wire Products Corp Florida NY.....	914-651-4431
Revere Corp of America Wallingford CT.....	203-269-7701
Rockland Insulated Wire & Cable Co Haverstraw NY.....	914-429-3103
Sager Hingham MA.....	617-749-6700
Santa Fe Textiles Inc Santa Ana CA.....	714-751-7733
Saxton Wire & Cable Congers NY.....	914-268-6846
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Shure Brothers Inc Evanston IL.....	312-866-2200
Storm Products Co Inglewood CA.....	213-776-8141
Support Systems Intl Cables & Access Div Richmond CA.....	415-234-9090
Tensolite Co Div Carlisle Corp Buchanan NY.....	914-737-5600
Thermax Wire Corp Flushing NY.....	718-939-8300
Thermo Electric Co Inc Saddle Brook NJ.....	201-843-5800
Tertex Electronics Inc Farmingdale NY.....	516-293-9880
Tector Corp West Warwick RI.....	401-821-7800
Tector Wire & Cable Corp Los Angeles CA.....	213-870-9933
Vall Industries Inc Lawrence MA.....	617-688-1287
Vhlmor Wire & Cable Corp North Hollywood CA.....	818-764-6296
Vise Components Inc Greenwich CT.....	203-531-4880
Voven Electronics Corp Mauldin SC.....	803-963-5131
Venth Wire & Cable Corp Ronkonkoma NY.....	516-585-1444
Wippertubing Co Los Angeles CA.....	213-321-3901

CABLES, SHIELDED (NOT COAXIAL)—DC & POWER

EG CORPORATION SOMERVILLE NJ.....	201-722-9800
CONSOLIDATED ELECTRONIC WIRE & CABLE CORP FRANKLIN PARK IL.....	312-455-8830
ADV PG 55	
ORD ELECTRONICS INC WESTBURY NY.....	516-935-3640
ING WIRE & CABLE CORP JAMAICA NY.....	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP RYE NY.....	609-455-8530
ADV PG 54	
PEERLESS RADIO CORP LYNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
AGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
HOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
VISE COMPONENTS INC GREENWICH CT.....	203-531-4880
EG Corporation Somerville NJ.....	201-722-9800
FN Corp Somerset NJ.....	201-560-1240
Alpha Wire Corp Elizabeth NJ.....	201-925-8000
American Electric Cable Co Holyoke MA.....	413-539-9893
American Insulated Wire Corp Pawtucket RI.....	401-726-0700
Arkana Capital Corp dba Webber Cable & Elctns Cerritos CA.....	213-404-2602
elden Electronic Wire & Cable Richmond IN.....	317-983-5200
irnbach Co Inc Farmingdale NY.....	516-420-9800
reeze-Illinois Inc Peoria IL.....	309-695-2511
rintec Corp Brand-Rex Cable Sys Div Willimantic CT.....	203-456-8000
almont Engineering & Electronics Inc Santa Ana CA.....	714-549-0336
apcon Inc New York NY.....	212-243-6275
arol Cable Co Inc Electn Cables Div Pawtucket RI.....	401-724-9605
arol Cable Co West Rancho Dominguez CA.....	213-537-8050
hamplain Cable Corp Winooski VT.....	802-656-2121
hester Cable Corp Chester NY.....	914-469-2141
onnector Systems Div BIW Santa Rosa CA.....	707-523-2300
onsolidated Electronic Wire & Cable Corp Franklin Park IL.....	312-455-8830
ontinental Wire & Cable York PA.....	717-792-2644
ord Electronics Inc Westbury NY.....	516-935-3640
earborn Wire & Cable Inc Wheeling IL.....	312-459-1000
electro Cords Div Middlebury IN.....	219-825-9466
sting Engineering Co Port Angeles WA.....	206-457-0904
Surprenant Wire & Cable Div Clinton MA.....	617-368-1401
avitt Wire & Cable Co Inc Brookfield MA.....	617-867-6476
eneral Elec Co Wire & Cable Dept Bridgeport CT.....	800-252-0900
eneral Reliance Corp Wharton NJ.....	201-361-1400
eneral Wire Products Inc Worcester MA.....	617-752-8260
lenair Inc Glendale CA.....	818-247-6000
ore & Assoc Inc W L Newark DE.....	302-738-4880
SI Corp Timonium MD.....	301-252-1768
mac Santa Clara CA.....	408-727-1970
PM Co Lewisburg PA.....	717-523-1101
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Calmont Engineering & Electronics Inc	
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Continental Wire & Cable York PA	717-792-2644
Craig Data Cable Co Inc Stamford CT	203-356-9315
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Electrowave Inc Worcester MA	617-752-8932
Estes Engineering Co Port Angeles WA	206-457-0904
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Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
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Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
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Continental Wire & Cable York PA	717-792-2644
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Enviro Marine Systems Inc Laurel MD	301-598-8833
FL Surprenant Wire & Cable Div Clinton MA	617-368-1401
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Bridgeport CT	800-252-0900
Glenn Inc Glendale CA	818-247-6000
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National Wire & Cable Corp Los Angeles CA	213-225-5611
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Rowe Industries Inc Toledo OH	419-729-9761
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Siecor Corp Hickory NC	704-327-5000
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Wallingford CT	203-265-8500
Vertex Electronics Inc Farmingdale NY	516-293-9880
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AEG Corporation Somerville NJ	201-722-9800
American Insulated Wire Corp Pawtucket RI	401-726-0700
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
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Canstar Communications Scarborough ON	416-293-9722
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Champlain Cable Corp Winooski VT	802-655-2121
Computer Cable & Products Inc	
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Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Cord Electronics Inc Westbury NY	516-935-3640
Dataspan Systems Inc Palisades Park NJ	201-461-3337
EIS Wire & Cable South Hadley MA	413-536-0152
Electrowave Inc Worcester MA	617-752-8932
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
General Wire Products Inc Worcester MA	617-752-8260
Keene Corp Laminates Div	
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Lenz Electric Mfg Co Chicago IL	312-276-4454
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Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Cable Systems Inc Everett MA	617-389-7080
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Carol Cable Co Inc Electn Cables Div	
Pawtucket RI	401-724-9605
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Champlain Cable Corp Winooski VT	802-655-2121
Chester Cable Corp Chester NY	914-469-2141
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Cord Electronics Inc Westbury NY	516-935-3640
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
Electrowave Inc Worcester MA	617-752-8932
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
Glenn Inc Glendale CA	818-247-6000
Gore & Assoc Inc W L Newark DE	302-738-4880
H & T Components Inc Bohemia NY	516-567-2282
Judd Wire Div High Voltage Engineering	
Turners Falls MA	413-863-4357
Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720
Keene Corp Laminates Div	
East Providence RI	401-434-2340
King Wire & Cable Corp Jamaica NY	718-657-4422
Lenz Electric Mfg Co Chicago IL	312-276-4454
Lynn Electronics Corp Feasterville PA	215-355-8200
Manhattan Electric Cable Corp Rye NY	609-455-8530
Market Corp Norristown PA	215-272-8960
Mohawk Wire & Cable Co Leominster MA	617-537-9961
National Electric Cable Portland OR	503-620-9400
New England Electric Wire Corp Lisbon NH	603-838-6629
Oilflex Wire & Cable Inc Fairfield NJ	201-575-1101
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Pace Wire & Cable Corp Oceanside NY	516-678-2275
Pacific Electricord Co Gardena CA	213-532-6600
Rainbow Wire Corp Madison NJ	201-887-2550
Raychem Corp Menlo Park CA	415-361-3333
Reme Wire Products Corp Florida NY	914-651-4431
Rockbestos Co New Haven CT	203-772-2250
Rockland Insulated Wire & Cable Co	
Haverstraw NY	914-429-3103
Rowe Industries Inc Toledo OH	419-729-9761
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Support Systems Intl Cables & Access Div	
Richmond CA	415-234-9090
Telecommunication Devices Inc	
Downers Grove IL	312-971-3460
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
Thermax Wire Corp Flushing NY	718-939-8300
Vertex Electronics Inc Farmingdale NY	516-293-9880
Wall Industries Inc Lawrence MA	617-688-1287
Whitmor Wire & Cable Corp	
North Hollywood CA	818-764-6296
Woven Electronics Corp Mauldin SC	803-963-5131
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

CABLES, UNSHIELDED—DC & POWER

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ALMOR CO INC WEYMOUTH MA	617-331-8400
CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700

AEG Corporation Somerville NJ	201-722-9800
Almor Co Inc Weymouth MA	617-331-8400
Alpha Wire Corp Elizabeth NJ	201-925-8000
American Electric Cable Co Holyoke MA	413-539-9893
American Insulated Wire Corp Pawtucket RI	401-726-0700
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Brintec Corp Brand-Rex Cable Sys Div	516-420-9800
Willimantic CT	
Cable Systems Inc Everett MA	203-456-8000
Calmont Engineering & Electronics Inc	617-389-7080
Santa Ana CA	714-549-0336
Carol Cable Co Inc Electn Cables Div	
Pawtucket RI	401-724-9605
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Champlain Cable Corp Winooski VT	802-655-2121
Chester Cable Corp Chester NY	914-469-2141
Connector Systems Div BIW Santa Rosa CA	707-523-2300
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Crouse Hinds Electro Paramount CA	213-636-9321
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Electro Cords Div Middlebury IN	219-825-9466
Electrowave Inc Worcester MA	617-752-8932
Estes Engineering Co Port Angeles WA	206-457-0904
FL Surprenant Wire & Cable Div Clinton MA	617-368-1401
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
Glenn Inc Glendale CA	818-247-6000
Gore & Assoc Inc W L Newark DE	302-738-4880
Judd Wire Div High Voltage Engineering	
Turners Falls MA	413-863-4357
Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720
Keene Corp Laminates Div	
East Providence RI	401-434-2340
King Wire & Cable Corp Jamaica NY	718-657-4422
Lynn Electronics Corp Feasterville PA	215-355-8200
LZR Electronics Inc Gaithersburg MD	301-921-9440
Madison Wire & Cable Corp Worcester MA	617-752-7320
Manhattan Electric Cable Corp Rye NY	609-455-8530
Market Corp Norristown PA	215-272-8960
Mohawk Wire & Cable Co Leominster MA	617-537-9961
National Wire & Cable Corp Los Angeles CA	213-225-5611
Oilflex Wire & Cable Inc Fairfield NJ	201-575-1101
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Pacific Electricord Co Gardena CA	213-532-6600
Peerless Radio Corp Lynbrook NY	516-593-2121
Philadelphia Insulated Wire Co Inc	
Moorestown NJ	609-235-6700
Philmore Mfg Co Inc Inwood NY	516-239-6161
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Rainbow Wire Corp Madison NJ	201-887-2550
Reme Wire Products Corp Florida NY	914-651-4431
Rockbestos Co New Haven CT	203-772-2250
Rockland Insulated Wire & Cable Co	
Haverstraw NY	914-429-3103
Rowe Industries Inc Toledo OH	419-729-9761
Royal Electric Div FL Indus Inc Pawtucket RI	401-722-8600
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Spectra-Strip Operations Garden Grove CA	714-892-3361
Storm Products Co Inglewood CA	213-776-8141
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
Thermax Wire Corp Flushing NY	718-939-8300
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Victor Wire & Cable Corp Los Angeles CA	213-870-9833
Whitmor Wire & Cable Corp	
North Hollywood CA	818-764-6296
Woven Electronics Corp Mauldin SC	803-963-5131
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

CABLES, UNSHIELDED—HIGH TEMPERATURE (OVER 105 DEGREES C)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
WISE COMPONENTS INC GREENWICH CT	203-531-4880
AEG Corporation Somerville NJ	201-722-9800
Alpha Wire Corp Elizabeth NJ	201-925-8000
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Berk-Tek Inc Reading PA	215-376-8071
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Champlain Cable Corp Winooski VT	802-655-2121
Computer Cable & Products Inc	
Farmingdale NY	516-293-1610
Connector Systems Div BIW Santa Rosa CA	707-523-2300
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Craig Data Cable Co Inc Stamford CT	203-356-9315
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Electrowave Inc Worcester MA	617-752-8932
Estes Engineering Co Port Angeles WA	206-457-0904
FL Surprenant Wire & Cable Div Clinton MA	617-368-1401

Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
Gore & Assoc Inc W L Newark DE	302-738-4880
Harbour Industries Inc Shelburne VT	802-985-3311
Icore International Inc Sunnysvale CA	408-732-5400
Judd Wire Div High Voltage Engineering	
Turners Falls MA	413-863-4357
Keene Corp Laminates Div	
East Providence RI	401-434-2340
King Wire & Cable Corp Jamaica NY	718-657-4422
Madison Wire & Cable Corp Worcester MA	617-752-7320
Manhattan Electric Cable Corp Rye NY	609-455-8530
Markel Corp Norristown PA	215-272-8960
3M-Electronic Products Div Austin TX	512-834-1800
Mohawk Wire & Cable Co Leominster MA	617-537-9961
National Electric Cable Portland OR	503-620-9400
National Wire & Cable Corp Los Angeles CA	213-225-5611
New England Electric Wire Corp Lisbon NH	603-838-6629
Offlex Wire & Cable Inc Fairfield NJ	201-575-1101
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Pace Transducer Co Div CJ Instr Inc	
Tarzana CA	818-996-4131
Park Distributors Inc Bridgeport CT	203-366-7200
Peerless Radio Corp Lynbrook NY	516-593-2121
Permaluster Inc Burbank CA	213-849-4543
Philadelphia Insulated Wire Co Inc	
Moorestown NJ	609-235-6700
Phoenix Wire Inc South Hero VT	802-372-4561
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Rainbow Wire Corp Madison NJ	201-887-2550
Raychem Corp Menlo Park CA	415-361-3333
Remie Wire Products Corp Florida NY	914-651-4431
Rockbestos Co New Haven CT	203-772-2250
Rowe Industries Inc Toledo OH	419-729-9761
Sager Hingham MA	617-749-6700
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
Thermax Wire Corp Flushing NY	718-939-8300
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Wire & Cable Corp Los Angeles CA	213-870-9933
Wall Industries Inc Lawrence MA	617-688-1287
Whitmor Wire & Cable Corp	
North Hollywood CA	818-764-6296
Wise Components Inc Greenwich CT	203-531-4880
Woven Electronics Corp Mauldin SC	803-963-5131
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

Winegard Co Burlington IA	319-753-0121
Wise Components Inc Greenwich CT	203-531-4880
Woven Electronics Corp Mauldin SC	803-963-5131
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

CADMIUM

See Metals—Cadmium

CALCIUM

See Metals—Alkaline

CALCULATORS—DESKTOP

CANON USA INC ELECTRONIC COMPONENTS DIV	
LAKE SUCCESS NY	516-488-6700
Canon USA Inc Electronic Components Div	
Lake Success NY	516-488-6700
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Hewlett-Packard Palo Alto CA	415-857-8000
Leasametric Inc Foster City CA	415-574-4441
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Texas Instruments Optoelectronics Dallas TX	214-995-6611

CALCULATORS—HANDHELD

CANON USA INC ELECTRONIC COMPONENTS DIV	
LAKE SUCCESS NY	516-488-6700
HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
Canon USA Inc Electronic Components Div	
Lake Success NY	516-488-6700
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Hewlett-Packard Palo Alto CA	415-857-8000
Hunter Products Inc Bridgewater NJ	201-526-8440
Inmac Santa Clara CA	408-727-1970
Texas Instruments Optoelectronics Dallas TX	214-995-6611

CALIBRATION SERVICES—FREQUENCY

Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Chase Electronics Portland OR	503-297-6356
Comtel Corp Burbank CA	818-846-0770
Continental Resources Inc Bedford MA	617-275-0850
E I L Instruments Inc Sparks MD	301-771-4800
Fluke Mfg Co Inc John Everett WA	206-356-5400
Honeywell Test Instruments Div Denver CO	303-773-4700
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Rockwell Engineering Co Indianapolis IN	317-251-9453
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Stabro Labs Inc Salt Lake City UT	801-487-1344
Tucker Electronics Co Garland TX	214-348-8800

CALIBRATION SERVICES—INSTRUMENT

DELEVAN DIV AMER PREC INDUS INC	
EAST AURORA NY	716-652-3600
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY	914-699-9717
Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Bailey Controls Co Wickliffe OH	216-585-8500
Ballantine Laboratories Inc Bonton NJ	201-335-0900
Chase Electronics Portland OR	503-297-6356
Comtel Corp Burbank CA	818-846-0770
Continental Resources Inc Bedford MA	617-275-0850
Davidson Optonics Inc West Covina CA	818-962-5181
Delevan Div Amer Prec Indus Inc	
East Aurora NY	716-652-3600
Dowty RFL Industries Inc Commun	
Boonton NJ	201-334-3100
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
E I L Instruments Inc Sparks MD	301-771-4800
Electrical Instrument Service Inc	
Mt Vernon NY	914-699-9717
Everest Interscience Inc Tustin CA	714-992-4461
Fischer & Porter Co Warminster PA	215-674-6000
Flow Technology Inc Phoenix AZ	602-437-1315
Fluke Mfg Co Inc John Everett WA	206-356-5400
Gordon Co Claud S Richmond IL	815-678-2211
Greibach Instruments Mt Vernon NY	914-699-9717
Hewlett-Packard Palo Alto CA	415-857-8000
Honeywell Test Instruments Div Denver CO	303-773-4700
Ideal Electronics Corp Valley Stream NY	516-825-8955
Kurz Instruments Inc Carmel Valley CA	408-659-3421
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Lockheed-Georgia Co Marietta GA	404-424-4914
Montedoro-Whitney Corp	
San Luis Obispo CA	805-543-1233
New York Testing Labs Inc Westbury NY	516-334-7770
OAI Santa Clara CA	408-988-6900
Penn Airborne Products Co Southampton PA	215-355-3400
Photo Research Div Kollmorgen Corp	
Burbank CA	818-843-6100
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Ram Meter Inc Ferndale MI	313-398-6767
Ramsay Engineering Co Anaheim CA	714-524-8855
Reliance Electric Co Cleveland OH	800-245-4497
Rockwell Engineering Co Indianapolis IN	317-251-9453

Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Rutherford Research Co Rutherford NJ	201-933-2091
Sensitive Research Instruments Mt Vernon NY	914-699-9717
Stabro Labs Inc Salt Lake City UT	801-487-1344
States Co Div Multi-Amp Corp Dallas TX	214-333-3201
Tektronix Inc Beaverton OR	800-547-6711
Tucker Electronics Co Garland TX	214-348-8800

CALIBRATION SERVICES—STANDARDS

OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY	914-699-9717
THERMOMETRICS INC EDISON NJ	201-287-2870
Bruehl & Kjaer Instruments Inc Marlboro MA	617-481-7000
Comtel Corp Burbank CA	818-846-0770
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
E I L Instruments Inc Sparks MD	301-771-4800
Electrical Instrument Service Inc	
Mt Vernon NY	914-699-9717
Guidline Instruments Inc Orlando FL	305-423-8215
Holt Instrument Div C P D Engrg Inc	
Oconto WI	414-834-2222
Honeywell Test Instruments Div Denver CO	303-773-4700
Hy-Cal Engineering El Monte CA	818-444-4000
Julie Research Labs Inc New York NY	212-245-2727
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Keith Co Inc Pico Rivera CA	213-685-3484
Koep Precision Standards Inc	
South Plainfield NJ	201-549-9280
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Lockheed-Georgia Co Marietta GA	404-424-4914
Montedoro-Whitney Corp	
San Luis Obispo CA	805-543-1233
OAI Santa Clara CA	408-988-6900
Omega Engineering Inc Stamford CT	203-359-1660
Penn Airborne Products Co Southampton PA	215-355-3400
Photo Research Div Kollmorgen Corp	
Burbank CA	818-843-6100
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Rank Precision Industries Inc Des Plaines IL	312-297-7720
Rockwell Engineering Co Indianapolis IN	317-251-9453
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Rutherford Research Co Rutherford NJ	201-933-2091
Sensitive Research Instruments Mt Vernon NY	914-699-9717
Sloan Technology Corp Santa Barbara CA	805-963-4431
Stabro Labs Inc Salt Lake City UT	801-487-1344
Thermometrics Inc Edison NJ	201-287-2870
Tucker Electronics Co Garland TX	214-348-8800
Weinschel Engineering Co Inc	
Gaithersburg MD	301-948-3434

CALIBRATION SERVICES—TIME

Comtel Corp Burbank CA	818-846-0770
E I L Instruments Inc Sparks MD	301-771-4800
Rockwell Engineering Co Indianapolis IN	317-251-9453
Stabro Labs Inc Salt Lake City UT	801-487-1344
Tucker Electronics Co Garland TX	214-348-8800

CALIBRATION STANDARDS

See Standards

CALIBRATORS—AMMETER

CLARKE-HESS COMMUNICATIONS RESEARCH	
NEW YORK NY	212-255-2940
IET LABS INC WESTBURY NY	516-334-5959
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY	914-699-9717
Clarke-Hess Communications Research	
New York NY	212-255-2940
DigiTREC Dayton OH	513-254-6251
Dowty RFL Industries Inc Commun	
Boonton NJ	201-334-3100
Dowty RFL Indus Instr Div Boonton NJ	201-334-3100
Electrical Instrument Service Inc	
Mt Vernon NY	914-699-9717
Electronic Development Corp Boston MA	617-268-9696
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hewlett-Packard Palo Alto CA	415-857-8000
Holt Instrument Div C P D Engrg Inc	
Oconto WI	414-834-2222
IET Labs Inc Westbury NY	516-334-5959
International Microtronics Corp Tucson AZ	602-748-7900
Kurz Instruments Inc Carmel Valley CA	408-659-3421
North Hills Electronics Inc Glen Cove NY	516-671-5700
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Rotek Instrument Corp Waltham MA	617-899-4611
Sensitive Research Instruments Mt Vernon NY	914-699-9717
Shepherd Scientific Inc San Diego CA	619-268-9696
Valhalla Scientific Inc San Diego CA	619-457-5576
Valley Design Corp Littleton MA	617-486-8933
Yokogawa Corp Of America Shendaoah GA	404-253-7000
Zi-Tech Instrument Corp Palo Alto CA	415-326-2151

CALIBRATORS, FREQUENCY—A-F

FPC Inc/Frequency Cont Prods Woodside NY	718-458-5811
Fluke Mfg Co Inc John Everett WA	206-356-5400
FSI/Fork Standards Inc Lombard IL	312-932-9380

Global Specialties Corp New Haven CT.....	203-624-3103
Julie Research Labs Inc New York NY.....	212-245-2727
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
Rochester Instrument Systems Inc Rochester NY.....	716-263-7700
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
Shepherd Scientific Inc San Diego CA.....	619-268-9696
Valhalla Scientific Inc San Diego CA.....	619-457-5576

CALIBRATORS, FREQUENCY—FM DEVIATION

FCP Inc/Frequency Cont Prods Woodside NY.....	718-458-5811
Marconi Instruments Div Marconi Elctns Inc Allendale NJ.....	201-934-9050
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290

CALIBRATORS, FREQUENCY—MICROWAVE

Shepherd Scientific Inc San Diego CA.....	619-268-9696
Weinschel Engineering Co Inc Gaithersburg MD.....	301-948-3434
Zeta Labs Inc Sub CCT Santa Clara CA.....	408-727-6001

CALIBRATORS, FREQUENCY—RF (EXCEPT MICROWAVE)

Compliance Design Inc Boxborough MA.....	617-264-4668
SI/Fork Standards Inc Lombard IL.....	312-932-9380
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
Spectracom Corp East Rochester NY.....	716-381-4827
Weinschel Engineering Co Inc Gaithersburg MD.....	301-948-3434

CALIBRATORS—MAGNETIC

See Magnetic Analysis Equipment

CALIBRATORS—METER (EXCEPT AMMETER, PYROMETER & VOLT METER)

Anasco Corp Wakefield MA.....	617-246-3300
Dowdy RFL Indus Instr Div Boonton NJ.....	201-334-3100
CO Instruments Div Sea Data Corp Newton MA.....	617-964-8360
Electronic Development Corp Boston MA.....	617-268-9696
Fluke Mfg Co Inc John Everett WA.....	206-356-5400
General Resistance Inc N Branford CT.....	203-481-5721
Kenstar Rental Electronics Inc Woodland Hills CA.....	818-887-4000
Jordon Co Claud S Richmond IL.....	815-678-2211
Hewlett-Packard Palo Alto CA.....	415-857-8000
Julie Research Labs Inc New York NY.....	212-245-2727
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
Rotek Instrument Corp Waltham MA.....	617-899-4611
Shepherd Scientific Inc San Diego CA.....	619-268-9696
Valhalla Scientific Inc San Diego CA.....	619-457-5576
Valley Design Corp Littleton MA.....	617-486-8933
Yokogawa Corp Of America Shenandoah GA.....	404-253-7000
Zi-Tech Instrument Corp Palo Alto CA.....	415-326-2151

CALIBRATORS—OSCILLOSCOPE

WATSU INSTRUMENTS INC

CARLSTADT NJ.....	201-935-5220
Cincinnati Electro Systems Inc Loveland OH.....	513-831-4347
CO Instruments Div Sea Data Corp Newton MA.....	617-964-8360
Watsu Instruments Inc Carlstadt NJ.....	201-935-5220
Reader Instruments Corp Hauppauge NY.....	516-231-6900
Electronic Inc Beaverton OR.....	800-547-6711
Valhalla Scientific Inc San Diego CA.....	619-457-5576
Zi-Tech Instrument Corp Palo Alto CA.....	415-326-2151

CALIBRATORS—PYROMETER

MEGA ENGINEERING INC

STAMFORD CT.....	203-359-1660
ADV PG Gatefold Cromag Inc Wixom MI.....	313-624-1541
Anasco Corp Wakefield MA.....	617-246-3300
Idle Instruments-Sensitek Blue Bell PA.....	215-646-9200
Apintec Instruments Inc Ramsey NJ.....	201-825-9500
Doric Scientific Div Emerson Elec Co San Diego CA.....	619-565-4415
Electronic Development Labs Inc Hauppauge NY.....	516-435-2808
Electro-Optical Industries Inc Santa Barbara CA.....	805-964-6701
Verest Interscience Inc Tustin GA.....	714-992-4461
tech Instruments & Cont Div Waltham MA.....	617-890-7440

for addresses, phones & sales offices, see green pages

Hades Mfg Corp Farmingdale NY.....	516-249-4244
Howell Instruments Inc Fort Worth TX.....	817-336-7411
Leeds & Northrup Instruments North Wales PA.....	215-643-2000
Omega Engineering Inc Stamford CT.....	203-359-1660
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
Thermo Electric Co Inc Saddle Brook NJ.....	201-843-5800
Wahl Instruments Inc Culver City CA.....	213-641-6931

CALIBRATORS—RADAR RANGE

BERKELEY NUCLEONICS CORP

BERKELEY CA.....	415-527-1121
Berkeley Nucleonics Corp Berkeley CA.....	415-527-1121
Weinschel Engineering Co Inc Gaithersburg MD.....	301-948-3434

CALIBRATORS—TELEMETRY

Data-Control Systems A CompuDyne Co Rockville MD.....	301-279-8798
Electronic Development Corp Boston MA.....	617-268-9696
Fairchild Weston Systems Inc Sarasota FL.....	813-371-0811

CALIBRATORS—TRANSDUCER (INCL.

ACCELEROMETERS, MICROPHONES & STRAIN GAGES)

ENTRAN DEVICES INC FAIRFIELD NJ.....	201-227-1002
SCHAEVITZ ENGINEERING PENN SAUKEN NJ.....	609-662-8000
TELEDYNE GEOTECH GARLAND TX.....	214-271-2561
Acrotech Brea CA.....	714-529-4666
Alpha-M Corp Eufless TX.....	817-287-7022
Anasco Corp Wakefield MA.....	617-246-3300
BLH Electronics Canton MA.....	617-821-2000
Bruehl & Kjaer Instruments Inc Marlboro MA.....	617-481-7000
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Idalee Electronics Corp Valley Stream NY.....	516-825-8955
Julie Research Labs Inc New York NY.....	212-245-2727
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
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Anasco Corp Wakefield MA.....	617-246-3300
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Ectron Corp San Diego CA.....	619-278-0600
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General Resistance Inc N Branford CT.....	203-481-5721
Guideline Instruments Inc Orlando FL.....	305-423-8215
Heath Co Benton Harbor MI.....	616-982-3200
Hewlett-Packard Palo Alto CA.....	415-857-8000
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Kurz Instruments Inc Carmel Valley CA.....	408-659-3421
Nlen Hills Electronics Inc Glen Cove NY.....	516-671-5700
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
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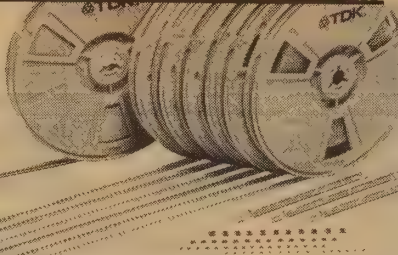
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C3216	3.2±0.2	1.8±0.15	1.30	0.5-2,700/470-220,000
C3225	3.2±0.4	2.5±0.3	1.90	750-8,200/56,000-0.47(μF)
C4532	4.5±0.5	3.2±0.4	1.90	2,400-18,000/0.18(μF)-1(μF)
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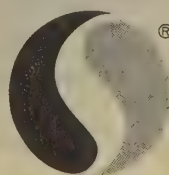
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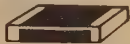
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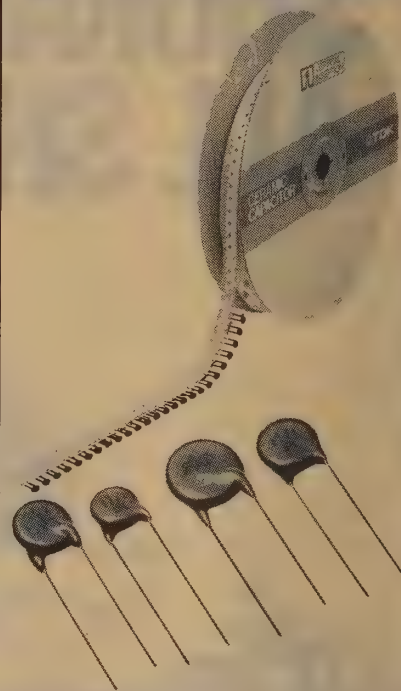
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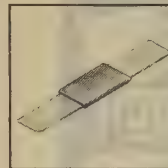
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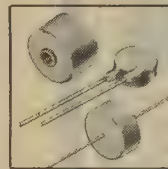
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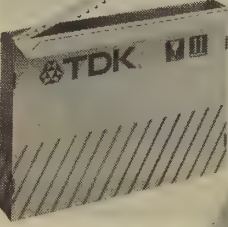


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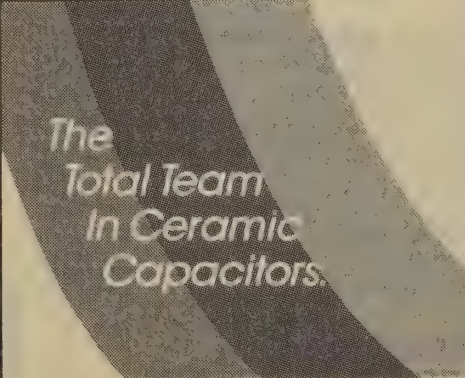
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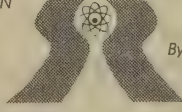
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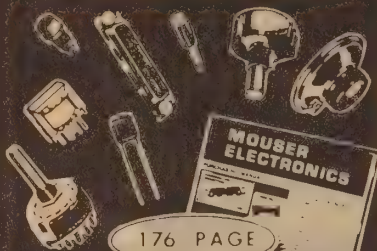
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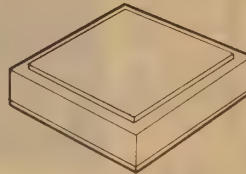
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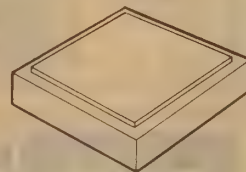
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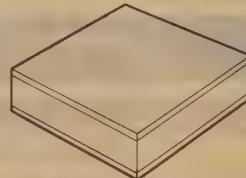
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Shokai Far East Ltd Hartsdale NY	914-681-0700
Siemens Components Inc Iselin NJ	201-321-3400
SPC Technology Bensenville IL	312-766-6711
Speco Div Components Specialties Inc	
Lindenhurst NY	516-957-8700
Sprague Electric Co Lexington MA	617-862-5500
Stetron International Inc Buffalo NY	716-854-3443
Tansitor Electronics Inc Bennington VT	802-442-5473
Teapo Electronic Corp of America	
Norcross GA	404-449-0034
Tran Spectra Inc Greenfield TN	901-235-2218
United Chemi-Con Inc Rosemont IL	312-696-2000
United Mineral & Chemical Corp	
New York NY	212-966-4330
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

CAPACITORS, FIXED ELECTROLYTIC—TANTALUM CHIPS FOR MICROCIRCUITS

ALMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
INTERNATIONAL COMPONENTS CORP	
MELVILLE NY	516-293-1500
ITT COMPONENTS DIV SANTA ANA CA	714-836-0351
ADV PG 69	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
ADV PGS 64, 67, 69	
THOMSON COMPONENTS MOSTEK CORP PASSIVE	
COMPS DIV WOODLAND HILLS CA	818-887-1010
ADV PG 72	
Almo Electronics Inc Philadelphia PA	215-698-4000
Arco Electronics Inc Chatsworth CA	818-882-8707
Corning Glass Works, Corning Elctns/Components	
Corning NY	607-974-9000
Elna America Inc Carson CA	213-327-6090
International Components Corp Melville NY	516-293-1500
ITT Components Div Santa Ana CA	714-836-0351
Kahgan Electronics Corp Hempstead NY	516-538-2300
Kemet, Union Carbide Corp Electronics Div	
Greenville SC	803-963-6348
KOA Speer Electronics Inc Bradford PA	814-362-5536
Mallory Capacitor Co Indianapolis IN	317-636-5353
Marcon America Corp Northbrook IL	312-564-2820
Matsuo Electronics Huntington Beach CA	714-969-2491
Mepeco/Centrilab Inc Jupiter FL	305-842-3201
NEC Electronics Inc Mtn View CA	415-960-6000
Panasonic Co Electronic Components Div	
Secaucus NJ	201-348-5200
Roederstein Electronics Inc Statesville NC	704-872-8101
Sager Hingham MA	617-749-6700
Shelley-Ragon Inc St Paul MN	612-542-2828
Sprague Electric Co Lexington MA	617-862-5500
Stetron International Inc Buffalo NY	716-854-3443
Tansitor Electronics Inc Bennington VT	802-442-5473
Thomson Components Mostek Corp Passive Comps Div	
Woodland Hills CA	818-887-1010
United Chemi-Con Inc Rosemont IL	312-696-2000

Philips Electronic Comps & Mats Div	040791111
Eindhoven Netherlands	
Presidio Components Inc San Diego CA	619-578-9390
Sager Hingham MA	617-749-6700
Shelley-Ragon Inc St Paul MN	612-542-2828
Shokai Far East Ltd Hartsdale NY	914-681-0700
Siemens Components Inc Iselin NJ	201-321-3400
Sprague Electric Co Lexington MA	617-862-5500
Stettner Electronics Inc Chattanooga TN	615-892-0291
Taiyo Yuden USA Inc Arlington Hts IL	312-364-6104
TDK Corp Tokyo Japan	03-278-5111
Tecdia Inc Mountain View CA	415-967-2828
Thomson Components Mostek Corp Passive Comps Div	
Woodland Hills CA	818-887-1010
Tusonix Inc Tucson AZ	602-744-0400
Vitramon North America Bridgeport CT	203-268-6621
Wright Capacitors Santa Ana CA	714-546-2490

CAPACITORS, FIXED ELECTROLYTIC—ALUMINUM

ALMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
ILLINOIS CAPACITOR INC	
LINCOLNWOOD IL	312-675-1760
ADV PGS 69, 70	
INTERNATIONAL COMPONENTS CORP	
MELVILLE NY	516-293-1500
ISKRA ELECTRONICS INC	
FARMINGDALE NY	516-753-0400
ADV PG 73	
ITT COMPONENTS DIV SANTA ANA CA	714-836-0351
ADV PG 69	
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
ADV PG 68	
NATIONAL CAPACITOR	
GARDEN GROVE CA	714-892-7749
ADV PGS 63, Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
ADV PG 65	
TEAPO ELECTRONIC CORP OF AMERICA	
NORCROSS GA	404-449-0034
ADV PG 72	
Air Electro Supply Inc Van Nuys CA	213-988-4400
Almo Electronics Inc Philadelphia PA	215-698-4000
Arco Electronics Inc Chatsworth CA	818-882-8707
Argent Industries Inc Englewood OH	513-836-8633
Brel Intl Components Sarasota FL	813-355-9791
Capacitor Technology Inc Ft Wayne IN	219-484-9054
Capar Components Corp Farmingdale NY	516-454-6390
Concept Industries Pico Rivera CA	213-699-0918

Use the
green pages
for more
information
on companies
close to you.

CAPACITORS, FIXED ELECTROLYTIC—TANTALUM FOIL

ALMO ELECTRONICS INC PHILADELPHIA PA.....	215-698-4000
ADV PG Green Pages	
INTERNATIONAL COMPONENTS CORP MELVILLE NY.....	516-293-1500
NATIONAL CAPACITOR GARDEN GROVE CA.....	714-892-7749
ADV PGS 63, Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
ADV PG 65	
THOMSON COMPONENTS MOSTEK CORP PASSIVE COMPS DIV WOODLAND HILLS CA	818-887-1010
ADV PG 72	
Air Electro Supply Inc Van Nuys CA.....	213-988-4400
Almo Electronics Inc Philadelphia PA.....	215-698-4000
Argent Industries Inc Englewood OH.....	513-836-8633
Capar Components Corp Farmingdale NY.....	516-454-6390
Cornell-Dubilier Electronics Wayne NJ.....	201-256-2000
Hunter Stanley Electronics Inc Nashville TN.....	615-321-0500
International Components Corp Melville NY.....	516-293-1500
Marcon America Corp Northbrook IL.....	312-564-2820
Mepco/Centralab Inc Jupiter FL.....	305-842-3201
National Capacitor Garden Grove CA.....	714-892-7749
NEC Electronics Inc Mtn View CA.....	415-960-6000
Panasonic Co Electronic Components Div Secaucus NJ.....	201-348-5200
Philips Electronic Comps & Mats Div Eindhoven Netherlands.....	040791111
Sager Hingham MA.....	617-749-6700
Shelley-Ragon Inc St Paul MN.....	612-542-2828
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Sprague Electric Co Lexington MA.....	617-862-5500
Tansitor Electronics Inc Bennington VT.....	802-442-5473
Thomson Components Mostek Corp Passive Comps Div Woodland Hills CA.....	818-887-1010
United Chemi-Con Inc Rosemont IL.....	312-696-2000

CAPACITORS, FIXED ELECTROLYTIC—TANTALUM SLUG (WET & DRY)

ALMO ELECTRONICS INC PHILADELPHIA PA.....	215-698-4000
ADV PG Green Pages	
ITT COMPONENTS DIV SANTA ANA CA	714-836-0351
ADV PG 69	
NATIONAL CAPACITOR GARDEN GROVE CA.....	714-892-7749
ADV PGS 63, Green Pages/Footstrips	
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
ADV PGS 64, 67, 69	
THOMSON COMPONENTS MOSTEK CORP PASSIVE COMPS DIV WOODLAND HILLS CA	818-887-1010
ADV PG 72	
Air Electro Supply Inc Van Nuys CA.....	213-988-4400
Almo Electronics Inc Philadelphia PA.....	215-698-4000
Argent Industries Inc Englewood OH.....	513-836-8633
Cornell-Dubilier Electronics Wayne NJ.....	201-256-2000
Elna America Inc Carson CA.....	213-327-6090
Hilton Industries Inc Sarasota FL.....	813-371-2600
Hunter Stanley Electronics Inc Nashville TN.....	615-321-0500
ITT Components Div Santa Ana CA.....	714-836-0351
Kahgan Electronics Corp Hempstead NY.....	516-538-2300
Kemet, Union Carbide Corp Electronics Div Greenville SC.....	803-963-6348
Lectron Industries Inc Roselle NJ.....	201-245-5858
Mallory Capacitor Co Indianapolis IN.....	317-636-5353
Matsuo Electronics Huntington Beach CA.....	714-969-2491
Mepco/Centralab Inc Jupiter FL.....	305-842-3201
National Capacitor Garden Grove CA.....	714-892-7749
Panasonic Co Electronic Components Div Secaucus NJ.....	201-348-5200
Philips Electronic Comps & Mats Div Eindhoven Netherlands.....	040791111
Roederstein Electronics Inc Statesville NC.....	704-872-8101
Shelley-Ragon Inc St Paul MN.....	612-542-2828
Sprague Electric Co Lexington MA.....	617-862-5500
Tansitor Electronics Inc Bennington VT.....	802-442-5473
Thomson Components Mostek Corp Passive Comps Div Woodland Hills CA.....	818-887-1010
United Chemi-Con Inc Rosemont IL.....	312-696-2000

CAPACITORS, FIXED ELECTROLYTIC—TANTALUM WIRE

ALMO ELECTRONICS INC PHILADELPHIA PA.....	215-698-4000
ADV PG Green Pages	
INTERNATIONAL COMPONENTS CORP MELVILLE NY.....	516-293-1500
NATIONAL CAPACITOR GARDEN GROVE CA.....	714-892-7749
ADV PGS 63, Green Pages/Footstrips	
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
ADV PGS 64, 67, 69	
Almo Electronics Inc Philadelphia PA.....	215-698-4000
International Components Corp Melville NY.....	516-293-1500
KOA Speer Electronics Inc Bradford PA.....	814-362-5536
National Capacitor Garden Grove CA.....	714-892-7749
NEC Electronics Inc Mtn View CA.....	415-960-6000
Panasonic Co Electronic Components Div Secaucus NJ.....	201-348-5200
Shelley-Ragon Inc St Paul MN.....	612-542-2828
United Chemi-Con Inc Rosemont IL.....	312-696-2000

CAPACITORS

TANTALUM

- Dipped radial, molded axial, chip
- Capacitance range from 0.1 μ F to 680 μ F
- Surface mount type available
- Designed to meet I.E.C. specs
- Available through distribution

ITT COMPONENTS

1201 E. McFadden Ave.
Santa Ana, CA 92705
(714) 836-0351, TWX: 910-595-1744
Telex 68-1389, FAX: 714-547-3746

ITT

The
Total Team
In Tantalum
Capacitors.

SHELLEY-RAGON & MALLORY

SHELLEY-RAGON
is The Total
Team in
Electronic
Passive
Component
Distribution.



"We're Known
By The Companies
We Keep."

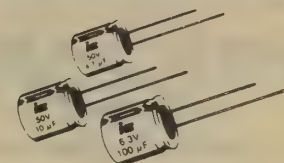
SHELLEY-RAGON, INC.
DISTRIBUTORS OF ELECTRONIC COMPONENTS

St. Paul 612-642-2828
Denver 303-744-3601
Kansas City 816-254-3410
St. Louis 314-454-0480
Chicago 312-595-6633
Cedar Rapids 319-373-0525
New York 516-567-7751

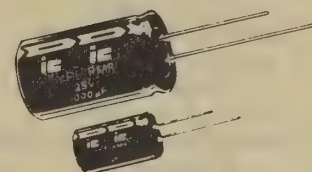
Seattle 206-241-1980
Portland 503-641-1691
Chatsworth 818-998-3333
San Jose 408-942-9111
San Diego 619-453-7133
Tempe 602-894-2058
Tampa 813-623-6560

 a Hartzell Corporation Subsidiary

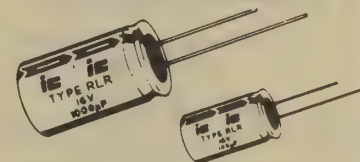
AVAILABILITY DEPENDABILITY



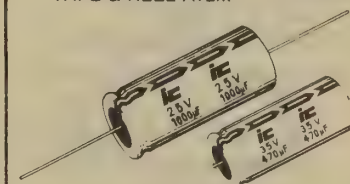
**IC TYPE RSS SUB-MINIATURE
ELECTROLYTIC CAPACITORS**
0.1 Mfd. To 100 Mfd.
6.3 WVDC To 50 WVDC
Min. Dia. 0.15 in./4.0mm
Max. Length .28 in./7.0mm
-40°C To +85°C Min.
TAPE & REEL Avail.



**IC TYPE RMR SUBMINIATURE, +105°C
ELECTROLYTIC CAPACITORS**
0.47 Mfd. To 10,000 Mfd.
6.3 WVDC To 250 WVDC
-40°C To +105°C Min.
2000 HOUR +105°C Rating
EPOXY END SEAL Optional (RMR-PX)
TAPE & REEL Avail.



**IC TYPE RLR LOW-LEAKAGE
ELECTROLYTIC CAPACITORS**
0.1 Mfd. To 2,200 Mfd.
6.3 WVDC To 50 WVDC
-40°C To +85°C Min.
Leakage Current: ≤ 0.002 CV or 0.4 μ A min.
EPOXY END SEAL Optional (RLR-PX)
TAPE & REEL Avail.



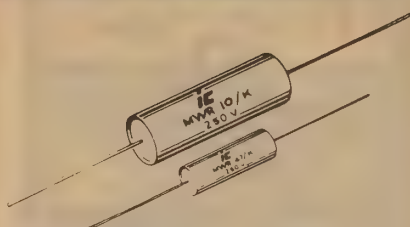
**IC TYPE TTA COMMERCIAL/INDUSTRIAL
ELECTROLYTIC CAPACITORS**
0.47 Mfd. To 33,000 Mfd.
6.3 WVDC to 500 WVDC
-40°C to +85°C min.
2,000 HOUR +85°C rating
EPOXY END SEAL Optional (TTA-PX)
TAPE & REEL Avail.

**IC NON-POLAR ELECTROLYTICS
+125°C ELECTROLYTICS**

ILLINOIS CAPACITOR, INC.

3757 West Touhy Avenue
Lincolnwood, IL 60465
(312) 675-1760

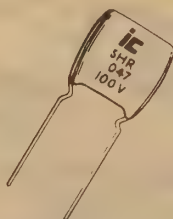
'AVAILABILITY'- DEPENDABILITY



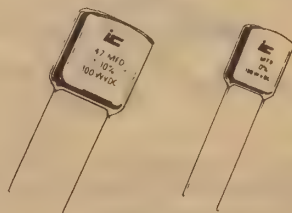
IC TYPE MWR METALLIZED MYLAR® POLYESTER FILM CAPACITORS
WRAP & FILLED CONSTRUCTION
NON-INDUCTIVE WINDING, +125° C.
SELF HEALING DESIGN
100 WVDC to 1,000 WVDC
0.01 Mfd. to 22 Mfd.
TOLERANCE: ±10% (±5% Opt.)



IC TYPE MSR METALLIZED MYLAR® POLYESTER FILM CAPACITORS
NON-INDUCTIVE WINDING, +125° C.
SELF HEALING, EPOXY DIP
250 WVDC to 1,000 WVDC
0.01 Mfd. to 10 Mfd.
TOLERANCE: ±10% (±5% Opt.)



IC TYPE SHR EXTENDED FOIL POLYESTER FILM CAPACITORS
NON-INDUCTIVE WINDING, +125° C.
100 WVDC
0.001 Mfd. to .47 Mfd.
TOLERANCE: ±10% (±5% Opt.)



IC TYPE UMR POLYESTER FILM CAPACITORS
EPOXY DIP, +85° C
100 WVDC
.001 Mfd. to .47 Mfd.
TOLERANCE: ±10% (±5% Opt.)

IC®
ILLINOIS CAPACITOR, INC.
3757 West Touhy Avenue
Lincolnwood, IL 60464
(312) 675-1760



CAPACITORS FIXED FILM:

Metallized Polycarbonate
Metallized Polyester
Metallized Polypropylene
Polypropylene and Foil
Polyester and Foil
Polystyrene and Foil
Polyester, Kraft & Foil

Case Styles:

Wrap & Fill Round
Wrap & Fill Rectangular
Plastic Rectangular
Axial & Radial
Plastic Round
Hermetic Sealed
Metal Tubular Round

SPECIAL DESIGNS
upon request

IMB Electronic Products, Inc.
15401 S. Carmenita Rd.
Santa Fe Springs, CA 90670
213-921-3407
714-523-2110

CAPACITORS, FIXED—ENERGY STORAGE

AMERICAN TECHNICAL CERAMICS CORP HUNTINGTON STATION NY	516-271-9600
ADV PG 64	
DEL ELECTRONICS CORP MT VERNON NY	914-699-2000
FILTRON CO INC OLD BETHPAGE NY	516-752-1144
IMB ELECTRONIC PRODUCTS INC SANTA FE SPRINGS CA	714-523-2110
ADV PG 70	
INTERELECTRONICS CORP CONGERS NY	914-358-8000
S&E I MANUFACTURING NORTHBRIDGE CA	818-349-4111
ADV PG 71	
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
WESCO ELECTRICAL CO INC GREENFIELD MA	413-774-4358
ADV PG 71	
Aerovox Inc New Bedford MA	617-994-9661
American Technical Ceramics Corp Huntington Station NY	516-271-9600
AVX Corp Myrtle Beach SC	803-448-9411
Axel Electronics Inc Jamaica NY	718-291-3900
Bycap Inc Chicago IL	312-561-4976
Capacitor Technology Inc Ft Wayne IN	219-484-9054
Capar Components Corp Farmingdale NY	516-454-6390
Component Research Co Inc Santa Monica CA	213-829-3615
Condenser Products Corp Brooksville FL	904-796-3561
CSI Capacitors San Marcos CA	619-747-4000
Custom Electronics Inc Oneonta NY	607-432-3880
Del Electronics Corp Mt Vernon NY	914-699-2000
Elmag Corp Newark NJ	201-481-1600
Elpac Components Santa Ana CA	714-979-4440
Film Capacitors Inc Hackensack NJ	201-779-2240
Filtron Co Inc Old Bethpage NY	516-752-1144
High Energy Corp Parkersburg PA	215-593-2800
IMB Electronic Products Inc Santa Fe Springs CA	714-523-2110
Industrial/Midwec Capacitor Corp Rolling Meadows IL	312-577-0120
Interelectronics Corp Congers NY	914-358-8000
Mallory Capacitor Co Indianapolis IN	317-636-5353
Maxwell Labs Inc San Diego CA	619-279-5100
Panasonic Co Electronic Components Div Secaucus NJ	201-348-5200
Plastic Capacitors Inc Chicago IL	312-489-2229
R F I Corp Bay Shore NY	516-231-6400
Roederstein Electronics Inc Statesville NC	704-872-8101
S & E Manufacturing Northridge CA	818-349-4111
Shelley-Ragon Inc St Paul MN	612-542-2828
Siemens Components Inc Iselin NJ	201-321-3400
Sohio Engineered Materials Co Niagara Falls NY	716-278-2000
Sprague Electric Co Lexington MA	617-862-5500

Tobe Deutschmann Labs Inc Canton MA	617-828-3366
Tran Spectra Inc Greenfield TN	901-235-2218
TRW Capacitors Ogallala NE	308-284-3611
United Chemi-Con Inc Rosemont IL	312-696-2000
Wesco Electrical Co Inc Greenfield MA	413-774-4358

CAPACITORS, FIXED FILM—FEEDTHROUGH

CAPCO/LECTROHM GRAND JUNCTION CO	303-243-8753
ADV PG 71	
CAPTOR CORP TIPP CITY OH	513-667-8484
FILTRON CO INC OLD BETHPAGE NY	516-752-1144
IMB ELECTRONIC PRODUCTS INC SANTA FE SPRINGS CA	714-523-2110
ADV PG 70	
SAGER HINGHAM MA ADV PGS Green Pages/Footstrips	617-749-6700
S&E I MANUFACTURING NORTHBRIDGE CA	818-349-4111
ADV PG 71	
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
TEAPO ELECTRONIC CORP OF AMERICA NORCROSS GA	404-449-0034
ADV PG 72	
WESCO ELECTRICAL CO INC GREENFIELD MA	413-774-4358
ADV PG 71	
Bishop Electronics Corp Pico Rivera CA	213-695-0446
Capco/Lectrohm Grand Junction CO	303-243-8753
Capcon Inc New York NY	212-243-6275
Captor Corp Tipp City OH	513-667-8484
Component Research Co Inc Santa Monica CA	213-829-3615
Condenser Products Corp Brooksville FL	904-796-3561
Cornell-Dubilier Electronics Wayne NJ	201-256-2000
CSI Capacitors San Marcos CA	619-747-4000
Electrocube San Gabriel CA	213-573-3300
Elmag Corp Newark NJ	201-481-1600
Elpac Components Santa Ana CA	714-979-4440
F-Dyne Electronics Co Bridgeport CT	203-367-6431
Film Capacitors Inc Hackensack NJ	201-779-2240
Filtron Co Inc Old Bethpage NY	516-752-1144
IMB Electronic Products Inc Santa Fe Springs CA	714-523-2110
Industrial/Midwec Capacitor Corp Rolling Meadows IL	312-577-0120
Mallory Capacitor Co Indianapolis IN	317-636-5353
Panasonic Co Electronic Components Div Secaucus NJ	201-348-5200
Potter Co A Varian Div Wesson MS	601-643-2215
R F I Corp Bay Shore NY	516-231-6400
Rtron Corp Skokie IL	312-679-7180
Sager Hingham MA	617-749-6700
S & E Manufacturing Northridge CA	818-349-4111
SFE Technologies San Fernando CA	818-365-9411
Shelley-Ragon Inc St Paul MN	612-542-2828
Southern Electronics Co Burbank CA	818-845-2458
Sprague Electric Co Lexington MA	617-862-5500
Standard Condenser Corp Chicago IL	312-327-5440
Teapo Electronic Corp of America Norcross GA	404-449-0034
Wesco Electrical Co Inc Greenfield MA	413-774-4358
West-Cap Arizona Tucson AZ	602-294-2646

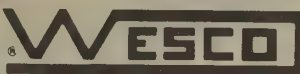
CAPACITORS, FIXED FILM—GENERAL PURPOSE (EXCEPT TYPES LISTED BELOW)

AMERICAN TECHNICAL CERAMICS CORP HUNTINGTON STATION NY	516-271-9600
ADV PG 64	
CAPCO/LECTROHM GRAND JUNCTION CO	303-243-8753
ADV PG 71	
DEL ELECTRONICS CORP MT VERNON NY	914-699-2000
FILTRON CO INC OLD BETHPAGE NY	516-752-1144
ILLINOIS CAPACITOR INC LINCOLNWOOD IL	312-675-1760
ADV PGS 69, 70	
IMB ELECTRONIC PRODUCTS INC SANTA FE SPRINGS CA	714-523-2110
ADV PG 70	
INTERELECTRONICS CORP CONGERS NY	914-358-8000
INTERNATIONAL COMPONENTS CORP MELVILLE NY	516-293-1500
ITT COMPONENTS DIV SANTA ANA CA	714-836-0351
ADV PG 69	
NATIONAL CAPACITOR GARDEN GROVE CA	714-892-7749
ADV PGS 63, Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
S&E I MANUFACTURING NORTHBRIDGE CA	818-349-4111
ADV PG 71	
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
ADV PG 65	
TEAPO ELECTRONIC CORP OF AMERICA NORCROSS GA	404-449-0034
ADV PG 72	
WESCO ELECTRICAL CO INC GREENFIELD MA	413-774-4358
ADV PG 71	
American Technical Ceramics Corp Huntington Station NY	516-271-9600
Arco Electronics Inc Chatsworth CA	818-882-8707
Axel Electronics Inc Jamaica NY	718-291-3900
Bishop Electronics Corp Pico Rivera CA	213-695-0446
Bycap Inc Chicago IL	312-561-4976
Capar Components Corp Farmingdale NY	516-454-6390

Capco/Lectrohm Grand Junction CO	303-243-8753
Capcon Inc New York NY	212-243-6275
Component Research Co Inc	
Santa Monica CA	213-829-3615
Condenser Products Corp Brooksville FL	904-796-3561
Cornell-Dubilier Electronics Wayne NJ	201-256-2000
CSI Capacitors San Marcos CA	619-747-4000
Del Electronics Corp Mt Vernon NY	914-699-2000
Electrocube San Gabriel CA	213-573-3300
Electronic Concepts Inc Eatontown NJ	201-542-7880
Elmag Corp Newark NJ	201-481-1600
Elpac Components Santa Ana CA	714-979-4440
F-Dyne Electronics Co Bridgeport CT	203-367-6431
Film Capacitors Inc Hackensack NJ	201-779-2240
Filtron Co Inc Old Bethpage NY	516-752-1144
Illinois Capacitor Inc Lincolnwood IL	312-675-1760
IMB Electronic Products Inc	
Santa Fe Springs CA	714-523-2110
Industrial/Midwec Capacitor Corp	
Rolling Meadows IL	312-577-0120
Interelectronics Corp Congers NY	914-358-8000
International Components Corp Melville NY	516-293-1500
Inter-Technical Group Inc Irvington NY	914-591-8822
ITT Components Div Santa Ana CA	714-836-0351
Kemet, Union Carbide Corp Electronics Div	
Greenville SC	803-963-6348
Maida Development Co Hampton VA	804-723-0785
Mallory Capacitor Co Indianapolis IN	317-636-5353
Maxwell Labs Inc San Diego CA	619-279-5100
Mepco/Centralab Inc Jupiter FL	305-842-3201
National Capacitor Garden Grove CA	714-892-7749
Nytronics Components Group Inc	
Darlington SC	803-393-5421
Paccorn Redmond WA	206-883-9200
Paktron Div Illinois Tool Wks Inc	
Lynchburg VA	312-282-7383
Panasonic Co Electronic Components Div	
Secaucus NJ	201-348-5200
Phillips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Plastic Capacitors Inc Chicago IL	312-489-2229
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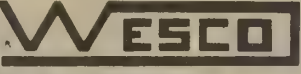
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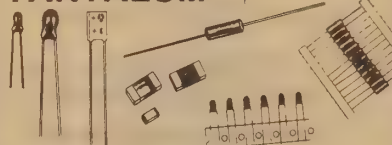
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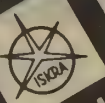
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Sager Hingham MA.....	617-749-6700
Seacor Inc Westwood NJ.....	201-666-5600
S & El Manufacturing Northridge CA.....	818-349-4111
SFE Technologies San Fernando CA.....	818-365-9411
Shelley-Ragon Inc St Paul MN.....	612-542-2828
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
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Southern Electronics Co Burbank CA.....	818-845-2458
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Tobe Deutschmann Labs Inc Canton MA.....	617-828-3366
TRW Capacitors Ogallala NE.....	308-284-3611
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CSI Electronics San Marcos CA.....	619-747-4000
Del Electronics Corp Mt Vernon NY.....	914-699-2000
Electrocube Santa Gabriel CA.....	213-573-3300
Electronic Concepts Inc Eatontown NJ.....	201-542-7880
Elpac Components Santa Ana CA.....	714-979-4440
F-Dyne Electronics Co Bridgeport CT.....	203-367-6431
Film Capacitors Inc Hackensack NJ.....	201-779-2240
Filtron Co Inc Old Bethpage NY.....	516-752-1144
Industrial/Midwec Capacitor Corp Rolling Meadows IL.....	312-577-0120
National Capacitor Garden Grove CA.....	714-892-7749
Rifa Inc Greenwich CT.....	203-625-7300
Shelley-Ragon Inc St Paul MN.....	612-542-2828
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
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Sprague Electric Co Lexington MA.....	617-862-5500
Standard Condenser Corp Chicago IL.....	312-327-5440
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WESCO ELECTRICAL CO INC GREENFIELD MA.....	413-774-4358
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Bycap Inc Chicago IL.....	312-561-4976
Capco/Lectrohm Grand Junction CO.....	303-243-8753
Chomerics Laminates Inc Hudson NH.....	603-880-4807

Component Research Co Inc Santa Monica CA.....	213-829-3615
Condenser Products Corp Brooksville FL.....	904-796-3561
Custom Electronics Inc Oneonta NY.....	607-432-3880
Electronic Concepts Inc Eatontown NJ.....	201-542-7880
Elpac Components Santa Ana CA.....	714-979-4440
F-Dyne Electronics Co Bridgeport CT.....	203-367-6431
Film Capacitors Inc Hackensack NJ.....	201-779-2240
Industrial/Midwec Capacitor Corp Rolling Meadows IL.....	312-577-0120
Interellectronics Corp Congers NY.....	914-358-8000
National Capacitor Garden Grove CA.....	714-892-7749
Plastic Capacitors Inc Chicago IL.....	312-489-2229
SFE Technologies San Fernando CA.....	818-365-9411
Shelley-Ragon Inc St Paul MN.....	612-542-2828
Southern Electronics Co Burbank CA.....	818-845-2458
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Condenser Products Corp Brooksville FL.....	904-796-3561
Cornell-Dubilier Electronics Wayne NJ.....	201-256-2000
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Electronic Concepts Inc Eatontown NJ.....	201-542-7880
Elpac Components Santa Ana CA.....	714-979-4440
F-Dyne Electronics Co Bridgeport CT.....	203-367-6431
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Industrial/Midwec Capacitor Corp Rolling Meadows IL.....	312-577-0120
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National Capacitor Garden Grove CA.....	714-892-7749
Pacom Redmond WA.....	206-883-9200
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Panasonic Co Electronic Components Div Secaucus NJ.....	201-348-5200
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Kyocera International Inc San Diego CA.....	619-454-1800
Presidio Components Inc San Diego CA.....	619-578-9390
Shelley-Ragon Inc St Paul MN.....	612-542-2828
Tansitor Electronics Inc Bennington VT.....	802-442-5473
Vitramon North America Bridgeport CT.....	203-268-6261

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MURATA ERIE NORTH AMERICA INC SMYRNA GA.....	404-436-1300
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AVX Corp Myrtle Beach SC.....	803-448-9411
Bycap Inc Chicago IL.....	312-561-4976
Capacitor Technology Inc Ft Wayne IN.....	219-484-9054
Centralab Inc A North American Philips Co El Paso TX.....	915-779-3961
Centre Engineering Inc State College PA.....	814-237-0321
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Cornell-Dubilier Electronics Wayne NJ.....	201-256-2000
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Elmag Corp Newark NJ.....	201-481-1600
Elpac Components Santa Ana CA.....	714-979-4440
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Film Capacitors Inc Hackensack NJ.....	201-779-2240
Filtron Co Inc Old Bethpage NY.....	516-752-1144
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Microcap San Diego CA.....	619-452-9812
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Panasonic Co Electronic Components Div Secaucus NJ.....	201-348-5200
Plastic Capacitors Inc Chicago IL.....	312-489-2229
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Stettner Electronics Inc Chattanooga TN.....	615-892-0291
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TDK Corp Tokyo Japan.....	03-278-5111
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Kaghan Electronics Corp Hempstead NY.....	516-538-2300
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National Capacitor Garden Grove CA.....	714-892-7749
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Shelley-Ragon Inc St Paul MN.....	612-542-2828
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Argent Industries Inc Englewood OH.....	513-836-8633
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Brel Intl Components Sarasota FL.....	813-355-9791
Capar Components Corp Farmingdale NY.....	516-454-6390
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Kaghan Electronics Corp Hempstead NY.....	516-538-2300
Lectron Industries Inc Roselle NJ.....	201-245-5858
Mallory Capacitor Co Indianapolis IN.....	317-636-5353
Mouser Electronics Mansfield TX.....	817-483-0165
National Capacitor Garden Grove CA.....	714-892-7749
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Sager Hingham MA.....	617-749-6700
Sangamo Weston Inc Components Div Pickens SC.....	803-878-6311
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Shokai Far East Ltd Hartsdale NY.....	914-681-0700
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Shelley-Ragon Inc St Paul MN	612-542-2828
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Dionics Inc Westbury NY	516-897-7474
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
M/A-COM Semiconductor Prods Inc	
Burlington MA	617-272-3000
Metelics Corp Sunnyvale CA	408-737-8181
National Microelectronics Inc Semi-Films Div	
West Hurley NY	914-338-7714
NEC Electronics Inc Min View CA	415-960-6000
Shelley-Ragon Inc St Paul MN	612-542-2828
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NORCROSS GA	404-449-0034
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Argent Industries Inc Englewood OH	513-836-8633
Bycap Inc Chicago IL	312-561-4976
Component Research Co Inc	
Santa Monica CA	213-829-3615
Condenser Products Corp Brooksville FL	904-796-3561
Cornell-Dubilier Electronics Wayne NJ	201-256-2000
CSI Capacitors San Marcos CA	619-747-4000
Del Electronics Corp Mt Vernon NY	914-699-2000
Elmag Corp Newark NJ	201-481-1600
Film Capacitors Inc Hackensack NJ	201-779-2240
Filtron Co Inc Old Bethpage NY	516-752-1144
High Energy Corp Parkersburg PA	215-593-2800
Industrial/Midwec Capacitor Corp	
Rolling Meadows IL	312-577-0120
Maida Development Co Hampton VA	804-723-0785
Mallory Capacitor Co Indianapolis IN	317-636-5353
Maxwell Labs Inc San Diego CA	619-279-5100
National Capacitor Garden Grove CA	714-892-7749
Nytronics Components Group Inc	
Darlington SC	803-393-5421
Plastic Capacitors Inc Chicago IL	312-489-2229
R F I Corp Bay Shore NY	516-231-6400
Shelley-Ragon Inc St Paul MN	612-542-2828
Shizuki America Inc Canoga Park CA	818-710-8555
Sprague Electric Co Lexington MA	617-862-5500
Standard Condenser Corp Chicago IL	312-327-5440
Teapo Electronic Corp of America	
Norcross GA	404-449-0034
Tobe Deutschmann Labs Inc Canton MA	617-828-3366

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NORCROSS GA	404-449-0034
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Almo Electronics Inc Philadelphia PA	215-698-4000
Argent Industries Inc Englewood OH	513-836-8633
Axel Electronics Inc Jamaica NY	718-291-3900
Bycap Inc Chicago IL	312-561-4976
Condenser Products Corp Brooksville FL	904-796-3561
Cornell-Dubilier Electronics Wayne NJ	201-256-2000
CSI Capacitors San Marcos CA	619-747-4000
Del Electronics Corp Mt Vernon NY	914-699-2000



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F-Dyne Electronics Co Bridgeport CT	203-367-6431
Fil-Coil Co Inc Garden City NY	516-294-5445
Film Capacitors Inc Hackensack NJ	201-779-2240
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
High Energy Corp Parkersburg PA	215-593-2800
Industrial/Midwec Capacitor Corp	
Rolling Meadows IL	312-577-0120
International Components Corp Melville NY	516-293-1500
Inter-Technical Group Inc Irvington NY	914-591-8822
Mallory Capacitor Co Indianapolis IN	317-636-5353
Maxwell Labs Inc San Diego CA	619-279-5100
National Capacitor Garden Grove CA	714-892-7749
Nytronics Components Group Inc	
Darlington SC	803-393-5421
Plastic Capacitors Inc Chicago IL	312-489-2229
Potter Co A Varian Div Wesson MS	601-643-2215
R F I Corp Bay Shore NY	516-231-6400
Rifa Inc Greenwich CT	203-625-7300
Sager Hingham MA	617-749-6700
SFE Technologies San Fernando CA	818-365-9411
Shelley-Ragon Inc St Paul MN	612-542-2828
Shizuki America Inc Canoga Park CA	818-710-8555
Shokai Far East Ltd Hartsdale NY	914-681-0700
Southern Electronics Co Burbank CA	818-845-2458
Sprague Electric Co Lexington MA	617-862-5500
Standard Condenser Corp Chicago IL	312-327-5440
Teapo Electronic Corp of America	
Norcross GA	404-449-0034
Tobe Deutschmann Labs Inc Canton MA	617-828-3366

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DEL ELECTRONICS CORP	
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IMB ELECTRONIC PRODUCTS INC	
SANTA FE SPRINGS CA	714-523-2110
ADV PG 70	
INTERNATIONAL COMPONENTS CORP	
MELVILLE NY	516-293-1500
NATIONAL CAPACITOR	
GARDEN GROVE CA	714-892-7749
ADV PGS 63, Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
ADV PG 65	
TEAPO ELECTRONIC CORP OF AMERICA	
NORCROSS GA	404-449-0034
ADV PG 72	

Aerovox Inc New Bedford MA	617-994-9661
Almo Electronics Inc Philadelphia PA	215-698-4000
Argent Industries Inc Englewood OH	513-836-8633
Axel Electronics Inc Jamaica NY	718-291-3900
Capcon Inc New York NY	212-243-6275
Condenser Products Corp Brooksville FL	904-796-3561
Cornell-Dubilier Electronics Wayne NJ	201-256-2000
CSI Capacitors San Marcos CA	619-747-4000
Del Electronics Corp Mt Vernon NY	914-699-2000
Elmag Corp Newark NJ	201-481-1600
F-Dyne Electronics Co Bridgeport CT	203-367-6431
Fil-Coil Co Inc Garden City NY	516-294-5445
Film Capacitors Inc Hackensack NJ	201-779-2240
High Energy Corp Parkersburg PA	215-593-2800
IMB Electronic Products Inc	
Santa Fe Springs CA	714-523-2110
Industrial/Midwec Capacitor Corp	
Rolling Meadows IL	312-577-0120
International Components Corp Melville NY	516-293-1500
Inter-Technical Group Inc Irvington NY	914-591-8822
Mallory Capacitor Co Indianapolis IN	317-636-5353
Maxwell Labs Inc San Diego CA	619-279-5100
National Capacitor Garden Grove CA	714-892-7749
Nytronics Components Group Inc	
Darlington SC	803-393-5421
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Plastic Capacitors Inc Chicago IL	312-489-2229
Potter Co A Varian Div Wesson MS	601-643-2215
R F I Corp Bay Shore NY	516-231-6400
Sager Hingham MA	617-749-6700
SFE Technologies San Fernando CA	818-365-9411
Shelley-Ragon Inc St Paul MN	612-542-2828
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sprague Electric Co Lexington MA	617-862-5500
Standard Condenser Corp Chicago IL	312-327-5440
Teapo Electronic Corp of America	
Norcross GA	404-449-0034
Tobe Deutschmann Labs Inc Canton MA	617-828-3366

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ADV PG Green Pages	
DEL ELECTRONICS CORP	
MT VERNON NY	914-699-2000
INTERNATIONAL COMPONENTS CORP	
MELVILLE NY	516-293-1500
NATIONAL CAPACITOR	
GARDEN GROVE CA	714-892-7749
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S&EI MANUFACTURING NORTHBRIDGE CA	818-349-4111
ADV PG 71	
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
ADV PG 65	
TEAPO ELECTRONIC CORP OF AMERICA	
NORCROSS GA	404-449-0034
ADV PG 72	
Aerovox Inc New Bedford MA	617-994-9661
Almo Electronics Inc Philadelphia PA	215-698-4000
Argent Industries Inc Englewood OH	513-836-8633
Condenser Products Corp Brooksville FL	904-796-3561
Cornell-Dubilier Electronics Wayne NJ	201-256-2000
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Nytronics Components Group Inc	
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Philips Electronic Comps & Mats Div	
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Shelley-Ragon Inc St Paul MN	612-542-2828
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sprague Electric Co Lexington MA	617-862-5500
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Norcross GA	404-449-0034
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Mannheim Germany	0621/408012

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Surcom Assoc Inc Oceanside CA	619-722-6162

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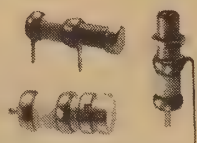
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GARDEN GROVE CA	714-892-7749
ADV PGS 63, Green Pages/Footstrips	
National Capacitor Garden Grove CA	714-892-7749
Piher International Corp Mt Prospect IL	312-640-8300
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See Capacitors, Fixed Film—Polyester

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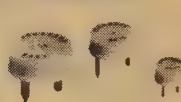
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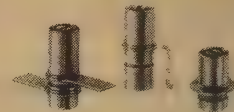
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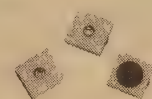
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MOUSER ELECTRONICS MANSFIELD TX.....	817-483-0165
ADV PG 68	
MURATA ERIE NORTH AMERICA INC SMYRNA GA.....	404-436-1300
ADV PGS 67, 77	
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ADV PG 77	
TRIM-TRONICS INC CAZENOVIA NY.....	315-655-9528
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Waseca MN.....	507-835-6222
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Kyocera Intl Inc Elctn Comps Group.....	
San Diego CA.....	619-454-1800
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Panasonic Co Electronic Components Div.....	
Secaucus NJ.....	201-348-5200
Philips Electronic Comps & Matis Div.....	
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Shelley-Ragon Inc St Paul MN.....	612-542-2828
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Sprague-Goodman Electronics Inc.....	
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Tansor Electronics Inc Bennington VT.....	802-442-5473
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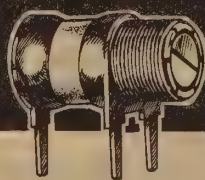
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ADV PG 111	
ISKRA ELECTRONICS INC FARMINGDALE NY.....	516-753-0400
ADV PG 73	
JOHANSON MFG CORP BOONTON NJ.....	201-334-2676
ADV PG 76	
MOUSER ELECTRONICS MANSFIELD TX.....	817-483-0165
ADV PG 68	
MURATA ERIE NORTH AMERICA INC SMYRNA GA.....	404-436-1300
ADV PGS 67, 77	
NATIONAL CAPACITOR GARDEN GROVE CA.....	714-892-7749
ADV PGS 63, Green Pages/Footstrips	
SHELLEY-RAGON INC ST PAUL MN.....	612-542-2828
SPRAGUE-GOODMAN ELECTRONICS INC GARDEN CITY PARK NY.....	516-746-1385
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ISKRA Electronics Inc Farmingdale NY.....	516-753-0400
Johanson Mfg Corp Boonton NJ.....	201-334-2676
Johnson Co E F/Components Div Waseca MN.....	507-835-6222
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Maida Development Co Hampton VA.....	804-723-0785
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Mitsumi Electronics Corp Melville NY.....	516-752-7730
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Murata Erie North America Inc Smyrna GA.....	404-436-1300
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Panasonic Co Electronic Components Div Secaucus NJ.....	201-348-5200
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Stettner Electronics Inc Chattanooga TN.....	615-892-0291
Surcom Assoc Inc Oceanside CA.....	619-722-6162
Voltronics Corp East Hanover NJ.....	201-887-1517

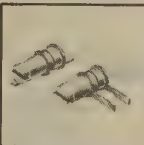
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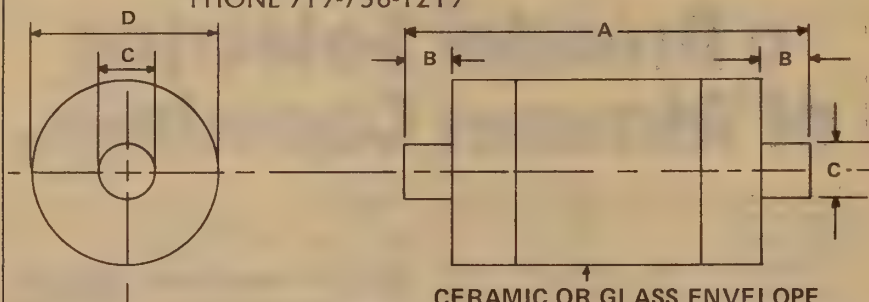
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FCL	Ceramic	6 to 250	35	100	6.5	.750	.812	2.5
FGS	Glass	6 to 100	35	80	4.5	.750	.812	2.5
FGL	Glass	6 to 250	35	100	6.5	.750	.812	2.5

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Anritsu America Inc Oakland NJ 201-337-1111
Bascom-Turner Instruments Norwood MA 800-225-3333
Casemakers Div Stebco Industries Chicago IL 312-254-1222
Hodge Mfg Co Inc Springfield MA 413-781-6800
InterMetro Industries Corp Wilkes-Barre PA 717-825-2741
Kingston Metal Specialties Kingston PA 717-288-5411
Leader Instruments Corp Hauppauge NY 516-231-6900
Lyon Metal Products Inc Aurora IL 312-892-8944
Henry Mann Inc Huntingdon Valley PA 215-355-7200
Mobile-Tronics Co Inc Tustin CA 714-546-0888
Nicolet Instrument Corp Oscilloscope Div
Madison WI 608-273-5000
Parent Metal Products Philadelphia PA 215-332-6800
Parsons Mfg Corp Menlo Park CA 415-324-4721
Philips Test & Measuring Instruments Inc
Mahwah NJ 201-529-3800
Production Industries Inc Pacoima CA 818-896-0555
Sargent-Welch Scientific Co Skokie IL 312-677-0600
Schroff Inc Warwick RI 401-732-3777
Scientific-Atlanta Inc Atlanta GA 404-441-4000
Sym-Tek Systems Inc San Diego CA 619-569-6800
Tektronix Inc Beaverton OR 800-547-6711
Titchener & Co E H Binghamton NY 607-772-1166
Wandel & Goltermann Inc
Research Triangle Park NC 919-544-8451

CASES—COMPONENT

See Package Parts; Packages

CASES—MAGNETIC TAPE

See Magnetic Tape Storage Cases

CASES, PORTABLE—ELECTRONIC
EQUIPMENT

AEG CORPORATION SOMERVILLE NJ 201-722-9800
BUD INDUSTRIES INC WILLOUGHBY OH 216-946-3200
ADV PG 173
ELECTRIC SWITCHES INC
LOS ANGELES CA 213-660-1311
ADV PGS 434, 435
INTERNATIONAL INSTRUMENTATION INC
WESTLAKE VILLAGE CA 818-991-9611
JENSEN TOOLS INC PHOENIX AZ 602-968-6241
KEYSTONE ELECTRONICS CORP
NEW YORK NY 212-475-4600
MILLER CO INC W A OQUOSSOC ME 207-864-3341
ADV PG 79
PREMIER METAL PRODUCTS CO
BRONX NY 212-993-9200
ADV PG 51
PREMIER METAL PRODUCTS CO
FONTANA CA 714-829-3088
ADV PG 51
AAK Corp Haverhill MA 617-373-3761
Abalon Precision Mfg Corp Bronx NY 212-589-5688
Adams-Russell Modpak Burlington MA 617-273-3333
AEG Corporation Somerville NJ 201-722-9800
Amco Engineering Co Schiller Park IL 312-671-6677
Amerec, Unibox Products Riverside CA 714-686-1400
Applied Design Co Inc Tonawanda NY 716-837-4400
Argos Products Co Inc Genoa IL 815-784-5111
Armor Box Co Glastonbury CT 203-528-5211
Bal Corp William Elizabeth NJ 201-354-9621
Buckeye Stamping Co Columbus OH 614-445-8431
Bud Industries Inc Willoughby OH 216-946-3200
Casemakers Div Stebco Industries Chicago IL 312-254-1222
Churchill Corp Melrose MA 800-225-3933
Computer Case Co Columbus OH 614-876-1788
Craig Systems Corp Amesbury MA 617-388-5666
Cushcraft Corp Manchester NH 603-627-7877
Daniels Inc C R Elliott City MD 301-461-2100
Davies Molding Co Harry Chicago IL 312-622-8961
Donray Co Cleveland OH 216-449-6451
ECS Composites Grants Pass OR 503-476-8877
E I L Instruments Inc Sparks MD 301-771-4801
Electric Switches Inc Los Angeles CA 213-660-1311
Electronic Tool Co Inc Pleasantville NY 914-769-8077
Ellis Co Inc CH Indianapolis IN 317-636-3335
Elzee Metal Products Co Inc Brooklyn NY 718-435-5000
Emerson Radio Corp North Bergen NJ 201-854-4800
E-Tronics Sepulveda CA 213-892-7271
Falstrom Co Passaic NJ 201-777-0011
Gemini Inc Cannon Falls MN 507-263-3955
Global Specialties Corp New Haven CT 203-624-3101
Hardig Industries Inc South Deerfield MA 413-665-2161
Instrument Enclosures Sun Valley CA 818-768-4626
International Instrumentation Inc
Westlake Village CA 818-991-9611
Jensen Tools Inc Phoenix AZ 602-968-6241
Jonard Industries Corp Tuckahoe NY 914-793-0700
Keystone Electronics Corp New York NY 212-475-4600
Kingston Metal Specialties Kingston PA 717-288-5411
Kulka Smith Inc Manasquan NJ 201-223-9400
LaFrance Corp Philadelphia PA 215-365-8000
Lansing Research Corp Ithaca NY 607-272-3266
Miller Co Inc W A Oquossoc ME 207-864-3341
Mobil Electronics Inc Anderson IN 317-642-7977

CAPACITORS, VARIABLE—VACUUM OR
GAS-FILLED

HIGH VACUUM ELECTRONICS INC
LUMBERTON NC 919-738-1219
ADV PG 78
SURCOM ASSOC INC OCEANSIDE CA 619-722-6162
ADV PG 75
Continental Electronics Div Varian Assoc
Dallas TX 214-381-7161
Dolinko & Wilkens Inc Union City NJ 201-867-0630
EEV Inc Elmford NY 914-592-6050
High Vacuum Electronics Inc Lumberton NC 919-738-1219
Inmark Corp Norwalk CT 203-866-8474
Jennings Div FL Industries San Jose CA 408-292-4025
Surcom Assoc Inc Oceanside CA 619-722-6162

CAPS—COMPONENT

See Package Parts; Tube Parts

CAPS—CONNECTOR

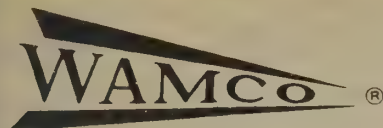
See Connector Caps

CARBIDES (EXCEPT ABRASIVES)

Atomergic Chemetals Corp Plainview NY 516-349-8800
Cerac Inc Milwaukee WI 414-289-9800
Comco Inc Burbank CA 818-841-5500
Cotronics Corp Brooklyn NY 718-646-7996
GTE Precision Materials Danvers MA 617-777-1900

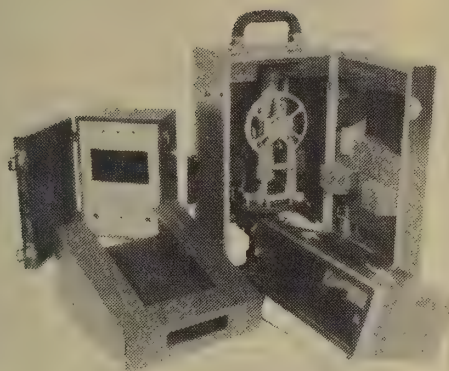
CARBON & GRAPHITE

Advance Carbon Products Inc Brisbane CA 415-468-1670
Aremco Products Inc Ossining NY 914-762-0685
Atomergic Chemetals Corp Plainview NY 516-349-8800
Budd Cato Assoc Inc Brielle NJ 201-528-7439
Carbone USA Corp Boonton NJ 201-334-0700
Duramic Products Inc Palisades Park NJ 201-947-8313
Helwig Carbon Inc Milwaukee WI 414-372-3113
Ohio Carbon Co Cleveland OH 216-252-6100
Poco Graphite Inc Decatur TX 817-627-2121
Pure Carbon Co Inc St Marys PA 814-781-1573
St Marys Carbon Co St Marys PA 814-781-7333
Semiconductor Mfg Corp Fairfield NJ 201-227-2432
SMC Carbon Products Fairfield NJ 201-227-2432
Stackpole, Carbon Div St Marys PA 814-781-1234
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Optima Div Scientific-Atlanta Inc Tucker GA	404-939-6340
Pac-Tec Corp Sub LaFrance Corp	
Philadelphia PA	215-365-8400
Parsons Mfg Corp Menlo Park CA	415-324-4726
Portfolio Inc San Rafael CA	415-459-1087
Premier Metal Products Co Bronx NY	212-993-9200
Premier Metal Products Co Fontana CA	714-829-3089
Schroff Inc Warwick RI	401-732-3770
Schry-Way Cases Pasadena CA	818-798-1166
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Signals Communications Corp Manchester NH	603-669-0600
Skydyne A Brooks & Perkins Div AAR Corp	
Port Jervis NY	914-856-6655
Strandberg Engineering Labs Inc	
Greensboro NC	919-274-3775
Suckle Corp Scranston PA	717-346-3871
TA Instrument Case Co Los Angeles CA	818-242-8855
Tektronix Inc Beaverton OR	800-547-6711
Thermodyne Intl Ltd Long Beach CA	213-603-1976
Vector Electronic Co Inc Sylmar CA	818-365-9661
Vandel & Golttermann Inc	
Research Triangle Pk NC	919-544-8450
tero Corp Burbank CA	818-846-4191

Parsons Mfg Corp Menlo Park CA	415-324-4726
Recoton Corp Long Island City NY	718-392-6442
Schroff Inc Warwick RI	401-732-3770
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Selo Metal Products Inc Hawthorne NJ	201-427-9700
Silicon Sensors Inc Dodgeville WI	608-935-2707
TA Instrument Case Co Los Angeles CA	818-242-8855
Thermodyne Intl Ltd Long Beach CA	213-603-1976
Tracewell Enclosures Inc Columbus OH	614-846-6175
Vector Electronic Co Inc Sylmar CA	818-365-9661

CASSETTES

See Magnetic Tape Cartridges & Cassettes

CASTINGS

See Metal Parts; Plastic Parts

CATHODE-RAY TUBES

See Tubes—Cathode-Ray

CATHODES

See Tube Parts

CATV SYSTEMS

See TV Systems, Cable

CAVITIES

See Microwave Cavities

CELLS—BATTERY

See Batteries

CELLS—FUEL

See Fuel Cells

CELLS—PHOTOELECTRIC

See Photocells

CELLS—SOLAR

See Photocells

CELLS—THERMOELECTRIC

See Power Generators—Thermoelectric;
Thermoelectric Generators—Current Measuring;
Thermopiles

CELLS—VOLTAGE STANDARD

See Standards—Voltage

CEMENTS

See Adhesives; Potting Compounds

CENTRIFUGES

Barrett Centrifugals Worcester MA	617-755-4306
Du Pont De Nemours & Co Inc E I Instrument Sys	
Wilmington DE	302-772-5488
GCA/Instruments & Equip Group Chicago IL	312-227-2660
Goodyear Aerospace Corp Akron OH	216-796-2121
Sargent-Welch Scientific Co Skokie IL	312-677-0600
Sequential Information Systems Inc	
Elmsford NY	914-592-5930
Trio-Tech International Burbank CA	213-846-9200

CERAMIC BEADS

SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Coors Porcelain Co Golden CO	303-278-4000
Diamonite Products Shreve OH	216-567-2145
Frenchtown Ceramics Co Frenchtown NJ	201-996-2121
Keith Co Inc Pico Rivera CA	213-685-3484
Shokai Far East Ltd Hartsdale NY	914-681-0700
The Stackpole Corp Elctn Components Div	
St Marys PA	814-781-1234
Star Porcelain Co Trenton NJ	609-392-3154
Steward Mfg Co D M Chattanooga TN	615-867-4100

CERAMIC FOAMS

Corning Glass Works Tech Prods Div	
Corning NY	607-974-9000
Ipsen Ceramics Pecatonica IL	815-239-2385
Twin Rivers Engineering Inc E Boothbay ME	207-633-2975

CASES, STATIONARY—ELECTRONIC EQUIPMENT

REG CORPORATION SOMERVILLE NJ	201-722-9800
UD INDUSTRIES INC WILLOUGHBY OH	216-946-3200
ADV PG 173	
COMPAC HOLBROOK NY	516-585-3400
ADV PG 174	
MILLER CO INC W A OQUOSSOC ME	207-864-3344
ADV PG 79	
AK Corp Haverhill MA	617-373-3769
REG Corporation Somerville NJ	201-722-9800
Applied Design Co Inc Tonawanda NY	716-837-4400
Armor Box Co Glastonbury CT	203-528-5213
ICC-Vero Electronics Inc Trumbull CT	203-372-0038
UD Industries Inc Willoughby OH	216-946-3200
Compac Holbrook NY	516-585-3400
CS Composites Grants Pass OR	503-476-8871
Electronic Tool Co Inc Pleasantville NY	914-769-8070
Illis Co Inc CH Indianapolis IN	317-636-3351
Merini Inc Cannon Falls MN	507-263-3957
Hammond Mfg Co Inc Buffalo NY	716-894-5710
Kingston Metal Specialties Kingston PA	717-288-5411
LaFrance Corp Philadelphia PA	215-365-8000
Miller Co Inc W A Oquossoc ME	207-864-3344
Multiplier Industries Corp Mt Vernon NY	914-699-0990
Pac-Tec Corp Sub LaFrance Corp	
Philadelphia PA	215-365-8400



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Reade Metals & Minerals Corp Rumson NJ	201-842-2294

CERAMIC PARTS—ALUMINA

CONCORD ELECTRONICS CORP NEW YORK NY	212-777-6571
SUPERIOR TECHNICAL CERAMICS CORP ST ALBANS VT	802-527-7726
ADV PG 81	
TDK CORP TOKYO JAPAN	03-278-5111
ADV PG 83	

Accumet Engineering Corp Hudson MA	617-568-8311
Alberox Corp New Bedford MA	617-995-1725
Alpha Industries Inc Woburn MA	617-935-5150
Aremco Products Inc Ossining NY	914-762-0685
Atomerig Chemetals Corp Plainview NY	516-349-8800
Budd Cato Assoc Inc Brielle NJ	201-928-7439
Ceramic Systems San Diego CA	619-455-1500
Concord Electronics Corp New York NY	212-777-6571
Coors Porcelain Co Golden CO	303-278-4000
Cotronics Corp Brooklyn NY	718-646-7996
Diamonite Products Shreve OH	216-567-2145
Duramic Products Inc Palisades Park NJ	201-947-8313
Electrical Refractories Co East Palestine OH	216-426-9433
Frenchtown Ceramics Co Frenchtown NJ	201-996-2121
Glass Beads Co Latrobe PA	412-537-7791
Glasseal Products Inc Lakewood NJ	201-370-9100
GTE Lighting Products Danvers MA	617-777-1900
GTE Precision Materials Danvers MA	617-777-1900
Hittman Materials & Medical Components Columbia MD	301-730-7800
Ipsen Ceramics Pocatonia IL	815-239-2385
Keith Co Inc Pico Rivera CA	213-685-3484
Materials for Electronics Inc Jamaica NY	212-322-9400
Materials Research Corp Orangeburg NY	914-359-4200
McDaniel Refractory Co Beaver Falls PA	412-843-8300
Meller Co Adolf Providence RI	401-331-3717
Mindrum Precision Products Rancho Culamonga CA	714-989-1728
Mykroy/Mycalex Clifton NJ	201-779-8866
National Beryllia Div/General Ceramics Inc Haskell NJ	201-839-1600
National Ceramic Co Trenton NJ	609-394-5373
Norton Co Worcester MA	617-853-1000
NTK Technical Ceramic Div Richardson TX	214-235-8332
Pyramid Magnetics Chatsworth CA	818-998-0825
Quartzite Processing Inc Malden MA	617-322-1380
Semiconductor Mfg Corp Fairfield NJ	201-227-2432

Sohio Engineered Materials Co Niagara Falls NY	716-278-2000
Superior Technical Ceramics Corp St Albans VT	802-527-7726
TDK Corp Tokyo Japan	03-278-5111
Thermalloy Inc Dallas TX	214-243-4321
Unilateral Technical Ceramics Inc Los Angeles CA	213-463-5618
USECO Div Litton Systems Inc Van Nuys CA	818-786-9381
Valley Design Corp Littleton MA	617-486-8933
Y S Porcelain Tubes Mfg Co Ltd Seto City Aichi Pref Japan	0561-82-2620

CERAMIC PARTS—BERYLLIA

BRUSH WELLMAN INC CLEVELAND OH	216-486-4200
ADV PG 80	
Accumet Engineering Corp Hudson MA	617-568-8311
Atomerig Chemetals Corp Plainview NY	516-349-8800
Brush Wellman Inc Cleveland OH	216-486-4200
Budd Cato Assoc Inc Brielle NJ	201-928-7439
Eimac Div Varian Associates San Carlos CA	415-592-1221
Frenchtown Ceramics Co Frenchtown NJ	201-996-2121
Hittman Materials & Medical Components Columbia MD	301-730-7800
National Beryllia Div/General Ceramics Inc Haskell NJ	201-839-1600
Permag Corp Hicksville NY	516-822-3311
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
SMC Carbon Products Fairfield NJ	201-227-2432
Thermalloy Inc Dallas TX	214-243-4321
Valley Design Corp Littleton MA	617-486-8933

CERAMIC PARTS—ELECTRON TUBE

See Tube Parts

CERAMIC PARTS—MAGNETIC

See Cores; Magnets

CERAMIC PARTS—METALIZED

ACC ELECTRONICS AN ECHLIN CO INDEPENDENCE KS	316-331-1000
BRUSH WELLMAN INC CLEVELAND OH	216-486-4200
ADV PG 80	
CERAMASEAL DIV CLEVEPAK CORP NEW LEBANON CENTER NY	518-794-7800
ADV PG 81	
HYTEK MICROSYSTEMS INC LOS GATOS CA	408-395-2300

ACC Electronics an Echlin Co Independence KS	316-331-1000
Alberox Corp New Bedford MA	617-995-1725
Bel-Tronics Corp Addison IL	312-543-7777
Brush Wellman Inc Cleveland OH	216-486-4200
Budd Cato Assoc Inc Brielle NJ	201-528-7439
Ceramaseal Div Clevepak Corp New Lebanon Center NY	518-794-7800
Coors Porcelain Co Golden CO	303-278-4000
Deposition Technology Inc San Diego CA	619-578-9400
Diamonite Products Shreve OH	216-567-2145
Eimac Div Varian Associates San Carlos CA	415-592-1221
Frenchtown Ceramics Co Frenchtown NJ	201-996-2121
Glasseal Products Inc Lakewood NJ	201-370-9100
Hermetic Seal Corp Rosemead CA	213-283-0411
Hytek Microsystems Inc Los Gatos CA	408-395-2300
Ideen Industries Inc Millington NJ	201-647-2731
M/A-COM Semiconductor Prods Inc Burlington MA	617-272-3000
Materials Research Corp Orangeburg NY	914-359-4200
McVeen Electronics Lab Red Bank NJ	201-741-1716
Metaplast Electrochemicals Corp Bronx NY	212-328-2444
National Beryllia Div/General Ceramics Inc Haskell NJ	201-839-1600
National Ceramic Co Trenton NJ	609-394-5373
NTK Technical Ceramic Div Richardson TX	214-235-8332
Oxley Developments Co Ltd Ulverston Cumbria England	0229-52621
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
SMC Carbon Products Fairfield NJ	201-227-2432
Technology Glass Div Union City CA	415-487-5860
Thickfilm Intl Indian Head MD	301-375-8666
Valpey-Fisher Corp Hopkinton MA	617-435-6831
Varian Electron Device Group Palo Alto CA	415-493-4000
Vitcoren Inc Cleveland OH	216-795-8200
Y S Porcelain Tubes Mfg Co Ltd Seto City Aichi Pref Japan	0561-82-2620

CERAMIC PARTS—PORCELAIN

CONCORD ELECTRONICS CORP NEW YORK NY	212-777-6571
Budd Cato Assoc Inc Brielle NJ	201-528-7439
Concord Electronics Corp New York NY	212-777-6571
Coors Porcelain Co Golden CO	303-278-4000
Electrical Refractories Co East Palestine OH	216-426-9433
Ferro Corp Louthan Plant East Liverpool OH	216-385-1605
Ipsen Ceramics Pocatonia IL	815-239-2385
Keith Co Inc Pico Rivera CA	213-685-3484
Kulka Smith Inc Manassan NJ	201-223-9400
Microplex Inc Anaheim CA	714-979-8833
National Ceramic Co Trenton NJ	609-394-5373
NTK Technical Ceramic Div Richardson TX	214-235-8332
Porcelain Products Co Carey OH	419-396-7621
Star Porcelain Co Trenton NJ	609-392-3154
Y S Porcelain Tubes Mfg Co Ltd Seto City Aichi Pref Japan	0561-82-2620

CERAMIC PARTS—STEATITE

BRUSH WELLMAN INC CLEVELAND OH	216-486-4200
ADV PG 80	
CONCORD ELECTRONICS CORP NEW YORK NY	212-777-6571
SUPERIOR TECHNICAL CERAMICS CORP ST ALBANS VT	802-527-7726
ADV PG 81	
Brush Wellman Inc Cleveland OH	216-486-4200
Budd Cato Assoc Inc Brielle NJ	201-528-7439
Concord Electronics Corp New York NY	212-777-6571
Ferro Corp Louthan Plant East Liverpool OH	216-385-1605
Glass Beads Co Latrobe PA	412-537-7791
GTE Lighting Products Danvers MA	617-777-1900
GTE Precision Materials Danvers MA	617-777-1900
Isolanite Mfg Co Inc Stirling NJ	201-647-3333
Keith Co Inc Pico Rivera CA	213-685-3484
Kulka Smith Inc Manassan NJ	201-223-9400
Mindrum Precision Products Rancho Culamonga CA	714-989-1728
Mykroy/Mycalex Clifton NJ	201-779-8866
National Ceramic Co Trenton NJ	609-394-5373
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Star Porcelain Co Trenton NJ	609-392-3154
Steward Mfg Co D M Chattanooga TN	615-867-4100
Superior Technical Ceramics Corp St Albans VT	802-527-7726
Valley Design Corp Littleton MA	617-486-8933
Y S Porcelain Tubes Mfg Co Ltd Seto City Aichi Pref Japan	0561-82-2620

CERAMIC PARTS—SUBSTRATES

See Substrates

CERAMIC PARTS—TECHNICAL CERAMICS (EXCEPT PRECEDING LISTED TYPES)

BRUSH WELLMAN INC CLEVELAND OH	216-486-4200
ADV PG 80	
SUPERIOR TECHNICAL CERAMICS CORP ST ALBANS VT	802-527-7726
ADV PG 81	
VERNITRON PIEZOELECTRIC DIV BEDFORD OH	216-232-8600
ADV PG 82	
Alberox Corp New Bedford MA	617-995-1725
Alpha Industries Inc Woburn MA	617-935-5150
Aremco Products Inc Ossining NY	914-762-0685
Brush Wellman Inc Cleveland OH	216-486-4200
Ceramic Magnetics Inc Fairfield NJ	201-227-4222

Coors Porcelain Co Golden CO	303-278-4000
Corning Glass Works Tech Prods Div	
Corning NY	607-974-9000
Cotronics Corp Brooklyn NY	718-646-7996
Diamonite Products Shreve OH	216-567-2145
Duramic Products Inc Palisades Park NJ	201-947-8313
Electrical Refractories Co East Palestine OH	216-426-9433
Ferro Corp Elctn Ceramic Mats Dept	
Penn Yan NY	315-536-3357
Frenchtown Ceramics Co Frenchtown NJ	201-996-2121
Glass Beads Co Latrobe PA	412-537-7791
GTE Lighting Products Danvers MA	617-777-1900
GTE Precision Materials Danvers MA	617-777-1900
High Energy Corp Parkersburg PA	215-593-2800
Ipsen Ceramics Pecatonica IL	815-239-2385
Keith Co Inc Pico Rivera CA	213-685-3484
McDaniel Refractory Co Beaver Falls PA	412-843-8300
Motorola Ceramic Products Albuquerque NM	505-822-8801
Mykroy/Mycalex Clifton NJ	201-779-8866
National Beryllia Div/General Ceramics Inc	
Haskell NJ	201-839-1600
Norton Co Worcester MA	617-853-1000
NTK Technical Ceramic Div Richardson TX	214-235-8332
Pyramid Magnetics Chatsworth CA	818-998-0825
Quartzite Processing Inc Malden MA	617-322-1380
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Sohio Engineered Materials Co	
Niagara Falls NY	716-278-2000
Star Porcelain Co Trenton NJ	609-392-3154
Steward Mfg Co D M Chattanooga TN	615-867-4100
Superior Technical Ceramics Corp	
St Albans VT	802-527-7726
Technology Glass Div Union City CA	415-487-5860
Unilator Technical Ceramics Inc	
Los Angeles CA	213-463-5618
Valley Design Corp Littleton MA	617-486-8933
Valpey-Fisher Corp Hopkinton MA	617-435-6831
Vernitron Piezoelectric Div Bedford OH	216-232-8600
Y S Porcelain Tubes Mfg Co Ltd	
Seto City Aichi Pref Japan	0561-82-2620

CERAMIC RAW MATERIALS (UNFIRED)

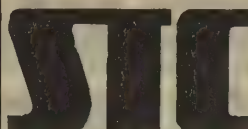
VERNITRON PIEZOELECTRIC DIV	
BEDFORD OH	216-232-8600
ADV PG 82	
Aremco Products Inc Ossining NY	914-762-0685
Atomergic Chemetals Corp Plainview NY	516-349-8800
Cerac Inc Milwaukee WI	414-289-9800
Diamonite Products Shreve OH	216-567-2145
Duramic Products Inc Palisades Park NJ	201-947-8313
Electro-Science Labs Inc King of Prussia PA	215-272-8000
Ferro Corp Coatings Div Cleveland OH	216-641-8580
Ferro Corp Elctn Ceramic Mats Dept	
Penn Yan NY	315-536-3357
Foote Mineral Co Exton PA	215-363-6500
Frenchtown Ceramics Co Frenchtown NJ	201-996-2121
High Energy Corp Parkersburg PA	215-593-2800
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
SMC Carbon Products Fairfield NJ	201-227-2432
Steward Mfg Co D M Chattanooga TN	615-867-4100
Tam Ceramics Inc Niagara Falls NY	716-278-9400
United Mineral & Chemical Corp	
New York NY	212-966-4330
Vernitron Piezoelectric Div Bedford OH	216-232-8600

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MURATA ERIE NORTH AMERICA INC	
SMYRNA GA	404-436-1300
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TDK CORP TOKYO JAPAN	03-278-5111
ADV PG 83	
VERNITRON PIEZOELECTRIC DIV	
BEDFORD OH	216-232-8600
ADV PG 82	
Fox Electronics Ft Myers FL	813-482-7212
Kyocera International Inc San Diego CA	619-454-1800
Kyocera Intl Inc Elctn Comps Group	
San Diego CA	619-454-1800
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Murata Erie North America Inc Smyrna GA	404-436-1300
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Atomergic Chemetals Corp Plainview NY	516-349-8800
Coors Porcelain Co Golden CO	303-278-4000
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Corning NY	607-974-9000
Diamonite Products Shreve OH	216-567-2145
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Ferro Corp Louthan Plant East Liverpool OH	216-385-1605
Frenchtown Ceramics Co Frenchtown NJ	201-996-2121
Ipsen Ceramics Pecatonica IL	815-239-2385
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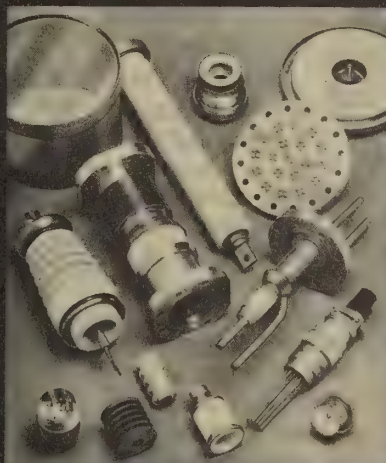
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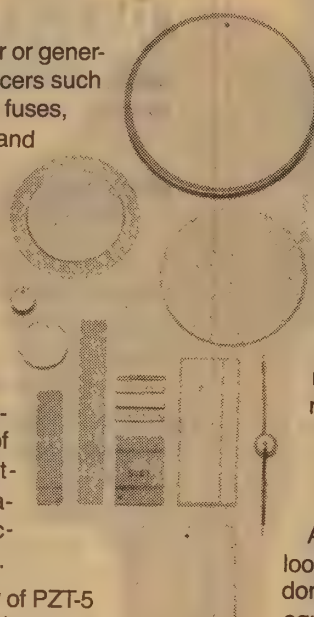
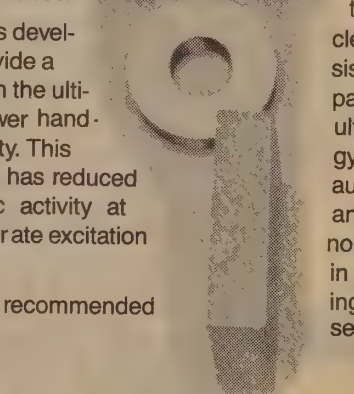
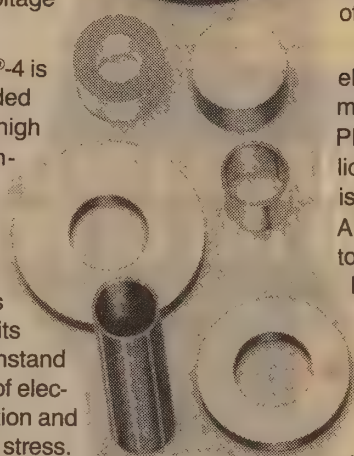
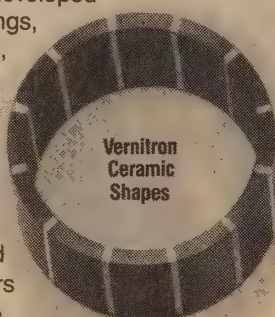
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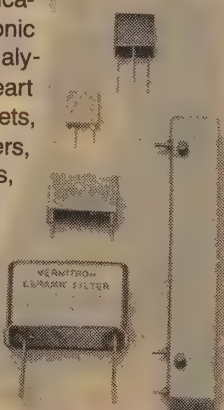
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Bimorphs



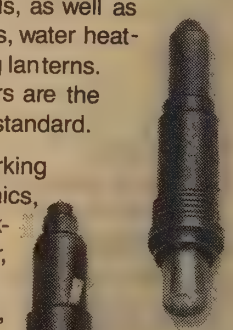
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Ceramic
Tubes



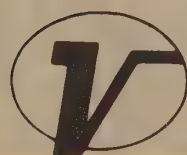
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Niagara Falls NY	716-278-2000
The Stackpole Corp Elctn Components Div	
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Steward Mfg Co D M Chattanooga TN	615-867-4100
Superior Technical Ceramics Corp	
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Los Angeles CA	213-463-5618
Y S Porcelain Tubes Mfg Co Ltd	
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Cotronics Corp Brooklyn NY	718-646-7996
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Duramic Products Inc Palisades Park NJ	201-947-8313
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
High Energy Corp Parkersburg PA	215-593-2800
Mykroy/Mycalex Clifton NJ	201-779-8866
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Haskell NJ	201-839-1600
NTK Technical Ceramic Div Richardson TX	214-235-8332
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
SMC Carbon Products Fairfield NJ	201-227-2432
Valley Design Corp Littleton MA	617-486-8933
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Y S Porcelain Tubes Mfg Co Ltd	
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Electrical Refractories Co East Palestine OH	216-426-9433
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Cleveland OH	216-266-9058
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Leco Corp St Joseph MI	616-983-5531
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McDaniel Refractory Co Beaver Falls PA	412-843-8300
Nannac Corp Framingham Centre MA	617-872-4811
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National Ceramic Co Trenton NJ	609-394-5373
Norton Co Worcester MA	617-853-1000
Omega Engineering Inc Stamford CT	203-359-1660
Porcelain Products Co Carey OH	419-396-7621
Quartzite Processing Inc Malden MA	617-322-1380
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SMC Carbon Products Fairfield NJ	201-227-2432
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VERNITRON PIEZOELECTRIC DIV	
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Channel Industries Inc Santa Barbara CA	805-967-0171
Edo Corp/Western Div Salt Lake City UT	801-486-7481
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Ferroxcube Saugerties NY	914-246-2811
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Kyocera Intl Inc Elctn Comps Group	
San Diego CA	619-454-1800
Motorola Ceramic Products Albuquerque NM	505-822-8801
Murata Erie North America Inc Smyrna GA	404-436-1300
NTK Technical Ceramic Div Richardson TX	214-235-8332
Philips Electronic Comps & Matis Div	
Eindhoven Netherlands	040791111
Piezo Electric Products Inc Metuchen NJ	201-546-2800
Seacor Inc Westwood NJ	201-666-5600
Shokai Far East Ltd Hartsdale NY	914-681-0700
Star Micronics Inc Piscataway NJ	201-572-9512
TDK Corp Tokyo Japan	03-278-5111
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Tracor Inc Austin TX	512-929-2051

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Webber Mfg Co Inc Indianapolis IN	317-357-8681

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Magnetic Shield Div Perfection Mica Co	
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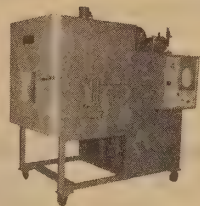
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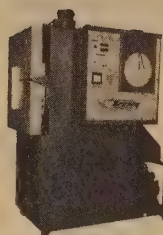


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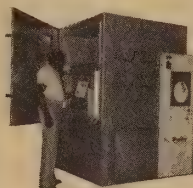
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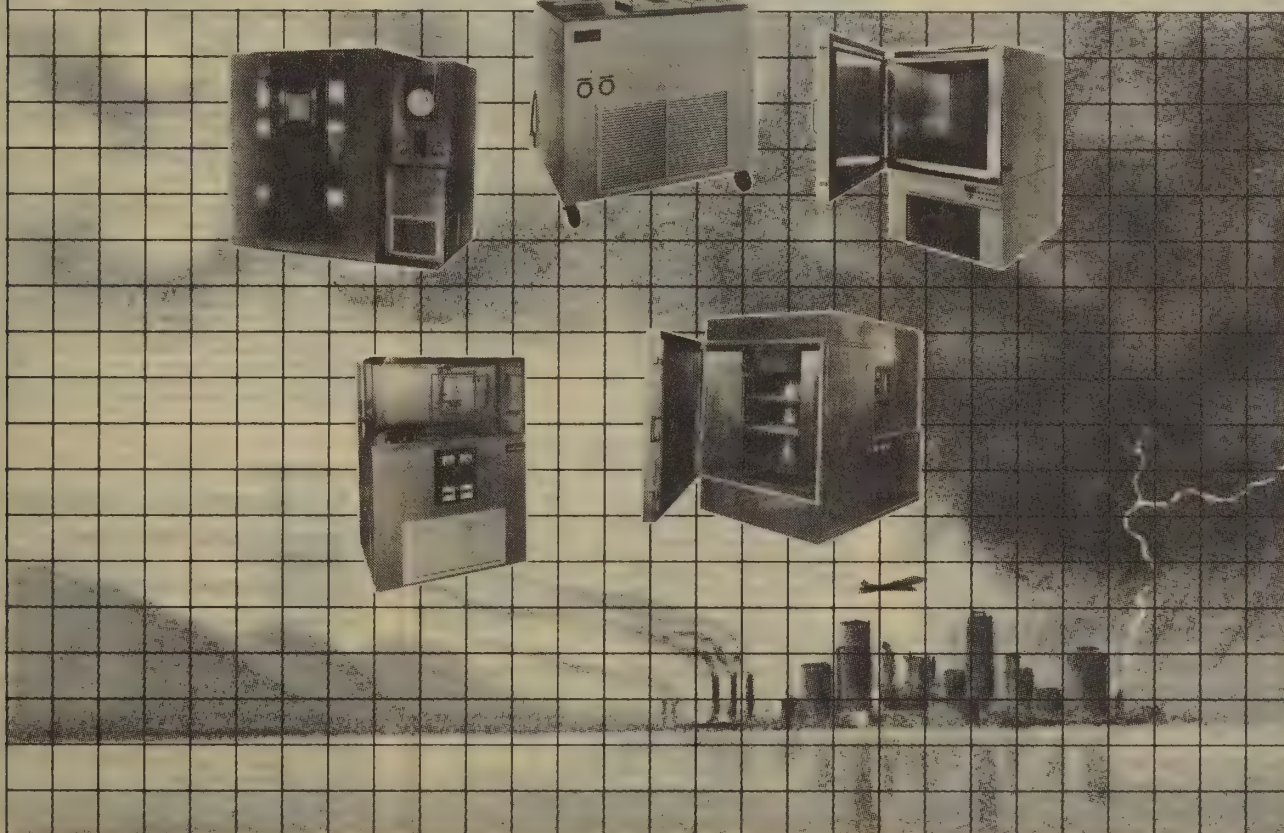
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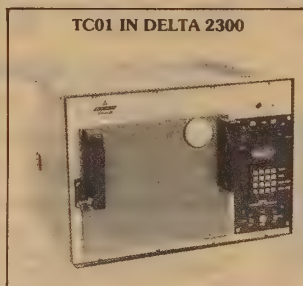
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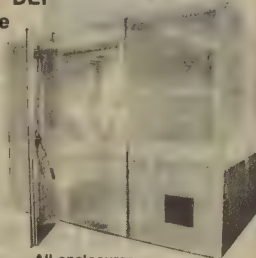
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Dynaloy Inc Hanover NJ.....	201-887-9270
Eagle-Picher Industries Inc Quapaw OK.....	918-673-1650
Eagle-Picher Industries Inc Electronics Div Joplin MO.....	417-623-8000
Eastman Kodak Co Rochester NY.....	716-724-4000
Echelon Industries Inc Walnut CA.....	714-594-1891
Electro-Science Labs Inc King of Prussia PA.....	215-272-8000
EM Industries Inc Hawthorne NY.....	914-592-4660
Emulsitone Co Whippany NJ.....	201-386-0053
Engelhard Industries Iselin NJ.....	201-321-5900
Fairmount Chemical Co Inc Newark NJ.....	201-344-5790
Furane Products Co Los Angeles CA.....	818-247-6210
Gardner Solder Co Chicago IL.....	312-847-0100
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
General Diode Corp Framingham MA.....	617-879-0880
Gen Elec Co Glass & Metallurgical Prods Dept Cleveland OH.....	216-266-2451
GTE Precision Materials Danvers MA.....	617-777-1900
Injectoall Electronics Corp Glen Cove NY.....	516-671-6010
Kenco Industries Inc Atlanta GA.....	404-475-6100
Kester Solder Div Littton Sys Inc Chicago IL.....	312-235-1600
MacDermid Inc Waterbury CT.....	203-575-5600
Mallinckrodt Inc St Louis MO.....	314-895-2000
M & T Chemicals Inc Rahway NJ.....	201-499-0200
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Materials for Electronics Inc Jamaica NY.....	212-322-9400
National Starch & Chemical Corp Bridgewater NJ.....	201-685-5000
Olin Hunt Specialty Products Inc West Paterson NJ.....	201-977-6000
Philips ECG Inc Waltham MA.....	617-890-6107
Polysciences Inc Warrington PA.....	215-343-6484
The PQ Corp Valley Forge PA.....	215-293-7200
Rawin Co Inc Spooner WI.....	715-635-8711
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
Rho-Chem Corp Inglewood CA.....	213-776-6233
Shibley Co Inc Newton MA.....	617-969-5500
SPC Technology Bensenville IL.....	312-766-6711
Synthatron Corp Parsippany NJ.....	201-335-5000
Tam Ceramics Inc Niagara Falls NY.....	716-278-9400
Teksil Inc Butler PA.....	412-352-4433
Transene Co Inc Rowley MA.....	617-948-2501
United Mineral & Chemical Corp New York NY.....	212-966-4330
Urban Chemical Co Deerfield IL.....	312-498-3080
Workman Electronic Products Inc Sarasota FL.....	800-237-6666

CHEMICALS—ELECTRON TUBE (INCL. GETTERS & FILAMENT)

SAES GETTERS/USA INC COLORADO SPRINGS CO.....	303-576-3200
ADV PG 88	
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Kemet, Union Carbide Corp Electronics Div Greenville SC.....	803-963-6348
King Laboratories Inc Syracuse NY.....	315-471-8123
Mallinckrodt Inc St Louis MO.....	314-895-2000
Polysciences Inc Warrington PA.....	215-343-6484
Ronson Metals Corp Newark NJ.....	201-589-1380
SAES Getters/USA Inc Colorado Springs CO.....	303-576-3200
Transene Co Inc Rowley MA.....	617-948-2501
United Mineral & Chemical Corp New York NY.....	212-966-4330

CHEMICALS—ETCHANTS, DIELECTRICS (INCL. SEMICONDUCTOR OXIDE)

Air Products & Chemicals Inc Allentown PA.....	215-481-4911
Allied Corp Morristown NJ.....	201-455-6300
Applied Plastics Co Inc El Segundo CA.....	213-322-8050
Ashland Chemical Co Columbus OH.....	614-889-3774
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Coricore Corp Northfield IL.....	312-441-5800
Cotronics Corp Brooklyn NY.....	718-646-7996
Ducey Chemical Inc Princeton Junction NJ.....	609-799-3191
Dynachem Corp Tustin CA.....	714-730-4200
Eastman Kodak Co Rochester NY.....	716-724-4000
Echelon Industries Inc Walnut CA.....	714-594-1891
Electro-Science Labs Inc King of Prussia PA.....	215-272-8000
EM Industries Inc Hawthorne NY.....	914-592-4660

PRODUCTS EBG '86/'87

Emulstone Co Whippany NJ.....	201-386-0053
Indium Corp of America Utica NY.....	315-797-1630
Injectorall Electronics Corp Glen Cove NY.....	516-671-6010
Mailinckrodt Inc St Louis MO.....	314-895-2000
M & T Chemicals Inc Rahway NJ.....	201-499-0200
Polysciences Inc Warrington PA.....	215-343-6484
The PQ Corp Valley Forge PA.....	215-293-7200
Shipley Co Inc Newton MA.....	617-969-5500
Synthatron Corp Parsippany NJ.....	201-335-5000
Tam Ceramics Inc Niagara Falls NY.....	716-278-9400
Transene Co Inc Rowley MA.....	617-948-2501
United Mineral & Chemical Corp New York NY.....	212-966-4330

CHEMICALS—ETCHANTS, METAL & PC

KEPRO CIRCUIT SYSTEMS INC FENTON MO.....	314-343-1630
OLIN HUNT SPECIALTY PRODUCTS INC WEST PATERSON NJ.....	201-977-6000
ADV PG 88	
Ashland Chemical Co Columbus OH.....	614-889-3774
Atomerger Chemetals Corp Plainview NY.....	516-349-8800
Dow Chemical Co Midland MI.....	517-636-1000
Dynachem Corp Tustin CA.....	714-730-4200
Echelon Industries Inc Walnut CA.....	714-594-1891
Electronic Trend Products Cupertino CA.....	408-996-7401
Elchromatic Inc Waltham MA.....	617-893-2020
Kepron Circuit Systems Inc Fenton MO.....	314-343-1630
MacDermid Inc Waterbury CT.....	203-575-5600
Mailinckrodt Inc St Louis MO.....	314-895-2000
M & T Chemicals Inc Rahway NJ.....	201-499-0200
Matheson Secaucus NJ.....	201-867-4100
Oakite Products Inc Berkeley Hts NJ.....	201-464-6900
Olin Hunt Specialty Products Inc West Paterson NJ.....	201-977-6000
Polysciences Inc Warrington PA.....	215-343-6484
The PQ Corp Valley Forge PA.....	215-293-7200
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
Sel-Rex/OMI Intl Corp Nutley NJ.....	201-667-5200
Shipley Co Inc Newton MA.....	617-969-5500
Transene Co Inc Rowley MA.....	617-948-2501
Urban Chemical Co Deerfield IL.....	312-498-3080

CHEMICALS—FLUORESCENT, LUMINOUS & ELECTROLUMINESCENT (EXCEPT CRT)

GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT CLEVELAND OH.....	216-266-2451
Atomerger Chemetals Corp Plainview NY.....	516-349-8800
Brewer Science Inc Rolla MO.....	314-364-0300
Canrad-Hanovia Inc Newark NJ.....	201-589-4300
M Industries Inc Hawthorne NY.....	914-592-4660
Formulabs Industrial Inks Inc Escondido CA.....	800-531-9358
Gen Elec Co Glass & Metallurgical Prods Dept Cleveland OH.....	216-266-2451
GTE Precision Materials Danvers MA.....	617-777-1900
Polysciences Inc Warrington PA.....	215-343-6484
Shannon Luminous Materials Inc Santa Ana CA.....	714-432-0122
Stroblite Co Inc New York NY.....	212-929-3778
United Mineral & Chemical Corp New York NY.....	212-966-4330
UVP Inc San Gabriel CA.....	818-285-3123

CHEMICALS—LIQUID CRYSTAL

HUNTER PRODUCTS INC BRIDGEWATER NJ.....	201-526-8440
Atomerger Chemetals Corp Plainview NY.....	516-349-8800
Brewer Science Inc Rolla MO.....	314-364-0300
Cerac Inc Milwaukee WI.....	414-289-9800
Eastman Kodak Co Rochester NY.....	716-724-4000
Echelon Industries Inc Walnut CA.....	714-594-1891
EM Industries Inc Hawthorne NY.....	914-592-4660
Hunter Products Inc Bridgewater NJ.....	201-526-8440
Polysciences Inc Warrington PA.....	215-343-6484
Practical Products Co Cincinnati OH.....	513-891-1471

CHEMICALS—PLATING, ELECTROLESS

KEPRO CIRCUIT SYSTEMS INC FENTON MO.....	314-343-1630
OLIN HUNT SPECIALTY PRODUCTS INC WEST PATERSON NJ.....	201-977-6000
ADV PG 88	
Allied Corp Morristown NJ.....	201-455-6300
Atomerger Chemetals Corp Plainview NY.....	516-349-8800
Auric Corp Newark NJ.....	201-242-4110
Chemelux Div RBP Corp Milwaukee WI.....	414-258-8711
Circuit Services W R Hatch Pomona CA.....	714-594-5891
CuTech Inc Hatfield PA.....	215-822-8900
Degussa Corp So Plainfield NJ.....	201-757-6500
Dow Chemical Co Midland MI.....	517-636-1000
Dynachem Corp Tustin CA.....	714-730-4200
Electronic Trend Products Cupertino CA.....	408-996-7401
Engelhard Industries Iselin NJ.....	201-321-5900
Fairmount Chemical Co Inc Newark NJ.....	201-344-5790
Kepron Circuit Systems Inc Fenton MO.....	314-343-1630
Kollmorgen Corp PCK Technology Div Melville NY.....	516-454-4400
MacDermid Inc Waterbury CT.....	203-575-5600
M & T Chemicals Inc Rahway NJ.....	201-499-0200
McGeen Rohco Inc Cleveland OH.....	216-441-4900
Metaplast Electrochemicals Corp Bronx NY.....	212-328-2444
Oakite Products Inc Berkeley Hts NJ.....	201-464-6900
Olin Hunt Specialty Products Inc West Paterson NJ.....	201-977-6000
The PQ Corp Valley Forge PA.....	215-293-7200

Sel-Rex/OMI Intl Corp Nutley NJ.....	201-667-5200
Shipley Co Inc Newton MA.....	617-969-5500
Transene Co Inc Rowley MA.....	617-948-2501

CHEMICALS—PLATING, ELECTROPLATING

KEPRO CIRCUIT SYSTEMS INC FENTON MO.....	314-343-1630
Air Products & Chemicals Inc Allentown PA.....	215-481-4911
Allied Corp Morristown NJ.....	201-455-6300
Atomerger Chemetals Corp Plainview NY.....	516-349-8800
Auric Corp Newark NJ.....	201-242-4110
Barco Chemical Products Inc Chicago IL.....	312-427-2916
Barium and Chemicals Inc Steubenville OH.....	614-282-9776
CuTech Inc Hatfield PA.....	215-822-8900
Degussa Corp So Plainfield NJ.....	201-757-6500
Echelon Industries Inc Walnut CA.....	714-594-1891
Engelhard Industries Iselin NJ.....	201-321-5900
GTE Technical Products Div Reidsville NC.....	919-342-2381
Hutchinson Technology Inc Hutchinson MN.....	612-587-3797
Indium Corp of America Utica NY.....	315-797-1630
Kepron Circuit Systems Inc Fenton MO.....	314-343-1630
Kollmorgen Corp PCK Technology Div Melville NY.....	516-454-4400
MacDermid Inc Waterbury CT.....	203-575-5600
M & T Chemicals Inc Rahway NJ.....	201-499-0200
McGeen Rohco Inc Cleveland OH.....	216-441-4900
National Semiconductor Corp Santa Clara CA.....	408-721-5000
Oakite Products Inc Berkeley Hts NJ.....	201-464-6900
Pace Inc Laurel MD.....	301-490-9860
The PQ Corp Valley Forge PA.....	215-293-7200
Sel-Rex/OMI Intl Corp Nutley NJ.....	201-667-5200
Shipley Co Inc Newton MA.....	617-969-5500
Silco Selective Plating Div Silco Ind Inc Cleveland OH.....	216-524-0099
Teksil Inc Butler PA.....	412-352-4433
Transene Co Inc Rowley MA.....	617-948-2501
United Mineral & Chemical Corp New York NY.....	212-966-4330

CHEMICALS—RARE EARTHS

See Rare Earths

CHEMICALS—RESISTS

See Photoresists; Solder Resists

CHEMICALS—SEMICONDUCTOR DOPANTS

Air Products & Chemicals Inc Allentown PA.....	215-481-4911
Allied Corp Morristown NJ.....	201-455-6300
Atomerger Chemetals Corp Plainview NY.....	516-349-8800
Cerac Inc Milwaukee WI.....	414-289-9800
Cominco Electronic Materials Inc Spokane WA.....	509-924-2200
Cotronics Corp Brooklyn NY.....	718-646-7996
Dynachem Corp Tustin CA.....	714-730-4200
Eagle-Picher Industries Inc Quapaw OK.....	918-673-1650
EM Industries Inc Hawthorne NY.....	914-592-4660
Emulstone Co Whippany NJ.....	201-386-0053
Filmtronics Inc Butler PA.....	412-352-3790
Foot Mineral Co Exton PA.....	215-363-6500
Formulated Resins Inc Greenville RI.....	401-949-2060
General Diode Corp Framingham MA.....	617-879-0880
Indium Corp of America Utica NY.....	315-797-1630
Mailinckrodt Inc St Louis MO.....	314-895-2000
Matheson Secaucus NJ.....	201-867-4100
M & G Labs Inc Branchville NJ.....	201-948-6030
Polysciences Inc Warrington PA.....	215-343-6484
The PQ Corp Valley Forge PA.....	215-293-7200
Sohio Engineered Materials Co Niagara Falls NY.....	716-278-2000
Synthatron Corp Parsippany NJ.....	201-335-5000
Teksil Inc Butler PA.....	412-352-4433
Transene Co Inc Rowley MA.....	617-948-2501
United Mineral & Chemical Corp New York NY.....	212-966-4330

CHEMICALS—STATIC CONTROL

PHILIPS ECG INC WALTHAM MA.....	617-890-6107
ACL Inc Elk Grove Village IL.....	312-981-9212
Barco Chemical Products Inc Chicago IL.....	312-427-2916
Bruhl & Co Inc Indianapolis IN.....	800-428-7149
Crown Industrial Products Hebron IL.....	815-648-2424
MacDermid Inc Waterbury CT.....	203-575-5600
Master Bond Inc Englewood NJ.....	201-343-8983
Olympic Plastics Co Los Angeles CA.....	213-837-5321
Philips ECG Inc Waltham MA.....	617-890-6107
Plastics Systems Inc Marlboro MA.....	617-485-7390
Richmond Technology Inc Redlands CA.....	714-794-2111
Simeco Co Inc Hatfield PA.....	215-822-2171
SPC Technology Bensenville IL.....	312-766-6711
Takk Industries Inc Cincinnati OH.....	513-353-4306
Urban Chemical Co Deerfield IL.....	312-498-3080
Wescor Div DAL Indus Inc Mt View CA.....	415-969-7717

CHEMICALS—WIRE STRIPPING

See Strippers, Wire—Chemical

CHEMICALS, ETCHANTS TO CHOPPERS

CHOKE COILS

See Coils

CHOKES—WAVEGUIDE

See Waveguide Assemblies; Waveguide Flanges

CHOPPERS, DC TO AC—DIODE TYPE (CRYSTAL & TUBE)

CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY.....	718-361-2133
ELGAR CORP AN ONAN OPERATING UNIT SAN DIEGO CA.....	619-450-0085
Control Technology Co Inc Long Island City NY.....	718-361-2133
Elgar Corp An Onan Operating Unit San Diego CA.....	619-450-0085
Glentek Inc El Segundo CA.....	213-322-3026

CHOPPERS, DC TO AC—MAGNETIC AMPLIFIER TYPE

CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY.....	718-361-2133
Aydin Radar & EW Div San Jose CA.....	408-629-1100
Control Technology Co Inc Long Island City NY.....	718-361-2133
General Magnetics Inc Bloomfield NJ.....	201-743-2700
Tectrol Inc Downsview ON.....	416-630-8108

CHOPPERS, DC TO AC—PHOTOELECTRIC

CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY.....	718-361-2133
Control Technology Co Inc Long Island City NY.....	718-361-2133
De-Tec-Tronic Corp Elgin IL.....	312-695-9150
Ealing Corp South Natick MA.....	617-655-7000
Millivac Instruments Inc Schenectady NY.....	518-355-8300
Optifab Inc Phoenix AZ.....	602-271-0921

CHOPPERS, DC TO AC—REED RELAY TYPE

Cambridge Scientific Industries Cambridge MD.....	301-228-5111
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CHOPPERS, DC TO AC—SOLID STATE

COMPUTER CONVERSIONS CORP EAST NORTHPORT NY.....	516-261-3300
CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY.....	718-361-2133
ELGAR CORP AN ONAN OPERATING UNIT SAN DIEGO CA.....	619-450-0085
JOHN FRANEK CO INC IRVINE CA.....	714-261-5377
SOLID STATE ELECTRONICS CORP NORTHBRIDGE CA.....	818-993-8257
Aydin Radar & EW Div San Jose CA.....	408-629-1100
Computer Conversions Corp East Northport NY.....	516-261-3300
Control Technology Co Inc Long Island City NY.....	718-361-2133
Elgar Corp An Onan Operating Unit San Diego CA.....	619-450-0085
Firing Circuits Inc Norwalk CT.....	203-846-1633
Flight Systems Mechanicsburg PA.....	717-697-0333
John Franeck Co Inc Irvine CA.....	714-261-5377
General Magnetics Inc Bloomfield NJ.....	201-743-2700
Glentek Inc El Segundo CA.....	213-322-3026
Millivac Instruments Inc Schenectady NY.....	518-355-8300
Parko Electronics Co Inc Irvine CA.....	714-660-8014
Power Control Corp Pittsburgh PA.....	412-782-3120
Power Functions Engineering Inc Garland TX.....	214-278-0996
Singer Co Kearfott Div Little Falls NJ.....	201-785-6000
S K G Associates Inc Norwell MA.....	617-878-7250
Solid State Electronics Corp Northridge CA.....	818-993-8257
Solifon Devices Inc Semiconductor Group Riviera Beach FL.....	305-848-4311
Tectrol Inc Downsview ON.....	416-630-8108

CHOPPERS, DC TO AC—TUBE TYPE

CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY.....	718-361-2133
Control Technology Co Inc Long Island City NY.....	718-361-2133

CHOPPERS, DC TO AC—VIBRATING ARMATURE (ELECTROMAGNETIC)

Cambridge Scientific Industries Cambridge MD.....	301-228-5111
James Electronics Inc Chicago IL.....	312-463-6500

CHOPPERS, DC TO AC—VIBRATING TRANSISTOR TYPE, DC DRIVE

CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY	718-361-2133
SOLID STATE ELECTRONICS CORP NORTHIDGE CA	818-993-8257
Aydin Radar & EW Div San Jose CA	408-629-1100
Control Technology Co Inc Long Island City NY	718-361-2133
James Electronics Inc Chicago IL	312-463-6500
Solid State Electronics Corp Northridge CA	818-993-8257
Tectrol Inc Downsview ON	416-630-8108

CHOPPERS—LIGHT

Ealing Corp South Natick MA	617-655-7000
EG & G Gamma Scientific Inc San Diego CA	619-279-8034
Electro-Optical Industries Inc Santa Barbara CA	805-964-6701
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Infrared Industries Inc Detector Div Orlando FL	305-282-7700
Ithaco Inc Ithaca NY	607-272-7640
Laser Precision Corp Utica NY	315-797-4449
Optifab Inc Phoenix AZ	602-271-0921
Philamon Inc Farmingdale NY	516-249-2700
Teledyne-Gurley Troy NY	518-272-6300

CHROMATOGRAPHS

Figaro Engineering Inc Osaka Japan	0727 28 2560
Gow-Mac Instrument Co Bound Brook NJ	201-560-0600
Hewlett-Packard Palo Alto CA	415-857-8000
Kratos Analytical Ramsey NJ	201-934-9000
LDC/Milton Roy Riviera Beach FL	305-844-5241
Spectra-Physics Inc Mountain View CA	415-961-2550
Tracor Inc Austin TX	512-929-2051
Varian Instrument Group Sunnyvale CA	408-734-5370

CHROMIUM

See Metals—Chromium

CHRONOGRAPHS & CHRONOSCOPES

Chrono-Log Corp Havertown PA	215-853-1130
RIL Electronics Inc Warrington PA	215-343-5075

CIRCUIT ASSEMBLY

See Production Services

CIRCUIT BOARDS

See Also Printed Circuit Laminates; Printed

Circuits

BUD INDUSTRIES INC WILLOUGHBY OH	216-946-3200
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TIME ZERO CORP CLIFTON NJ	201-340-0400
Algorex Corp Hauppauge NY	516-434-9400
Applied Micro Technology Inc Tucson AZ	602-622-8605
Augat Inc Attleboro MA	617-222-2202
B & F Instruments Div FX Sys Corp Kingston NY	914-338-0515
BICC-Vero Electronics Inc Trumbull CT	203-372-0308
Bud Industries Inc Willoughby OH	216-946-3200
Circuit Boards Of America Inc Auburn Hills MI	313-858-5800
Circuit Service of NH Inc Lowell MA	617-452-1511
CTS Fabri-Tek Inc Eden Prairie MN	612-941-9100
Datatron Labs Inc Sussex NJ	914-856-4313
Doran Mfg Co Cincinnati OH	513-681-5424
Douglas Electronics San Leandro CA	415-483-8770
Eastern Electronics Mfg Corp East Hartford CT	203-528-9821
Electronic Controls Design Inc Mulino OR	503-829-9108
E/M Corp West Lafayette IN	317-463-2511
Enterprise Systems Corp Dover NH	603-742-7363
GC Electronics Div Household Intl Rockford IL	815-968-9661
Global Specialties Corp New Haven CT	203-624-3103
Gordos Corp Bloomfield NJ	201-743-6800
GTI Corp Circuits Div Laesburg IN	219-453-3261
Hughes Electronics Products Corp Livonia MI	313-427-8310
Kalmus & Associates Broadview IL	312-343-7004
K C Industries Inc Cambridge NE	308-697-4711
Keil Engineering Products Inc St Louis MO	314-225-5166
Leighton Electronics Inc Leighton PA	215-377-5990
MCE Semiconductor Inc West Palm Beach FL	305-845-2837
Mobil Electronics Inc Anderson IN	317-642-7976
Moore Systems-Stitchewld Corp Chatsworth CA	818-882-7700
Multiwire Div Kollmorgen Corp Melville NY	516-391-4100
Northern Automatic Assembly Inc Shoreview MN	612-481-0022
Oneida Electronic Mfg Inc Meadville PA	814-336-2125
Optifab Inc Phoenix AZ	602-271-0921
Pacific Industries Div D'Angelo Entrps Franklin Park IL	312-451-1505
PCI Inc Santa Clara CA	408-980-0591
Phil Electronics Comps & Matis Div Eindhoven Netherlands	040791111

Photocircuits Glen Cove Div Kollmorgen Corp Glen Cove NY	516-674-1000
Precontact Inc Langhorne PA	215-757-1202
Printed Wiring Sys Div Kinetic Sys Corp Lockport IL	815-838-0052
Pro-Log Corp Monterey CA	408-372-4593
Reliance Electric Co Cleveland OH	800-245-4497
RIL Electronics Inc Warrington PA	215-343-5075
Rockwell Intl Corp Commercial Elctns Opers Richardson TX	214-996-5000
Rogers Corp Rogers CT	203-774-9605
Rogers Corp ATD Lithonia GA	404-981-9830
Sager Hingham MA	617-749-6700
Sanders Associates Inc Nashua NH	603-885-4321
Scanbe Div Zero Corp El Monte CA	818-579-2300
Shipley Co Inc Newton MA	617-969-5500
Shokai Far East Ltd Hartsdale NY	914-681-0700
Solid State Circuits Inc Springfield MO	417-869-4678
Sparton of Canada Ltd London ON	519-455-6320
Stanford Applied Engineering Santa Clara CA	408-988-0700
Teknatonal Industries Inc Rochester NY	716-232-1291
Time Zero Corp Clifton NJ	201-340-0400
Unifab Inc Hempstead NH	603-329-8205
Vector Electronic Co Inc Sylmar CA	818-365-9661
Wire Graphics Inc Farmingdale NY	516-293-1525

CIRCUIT BREAKERS

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AIRPAX CORP CAMBRIDGE DIV CAMBRIDGE MD	301-228-4600
ADV PG 91	
ALCO ELECTRONIC PRODUCTS INC NORTH ANDOVER MA	617-685-4371
AROMAT CORP MOUNTAINSIDE NJ	201-232-4260
ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
ELECTRONIC EQUIPMENT CO LTD HEMPSTEAD NY	516-538-5510
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
AEG Corporation Somerville NJ	201-722-9800
Airpax Corp Cambridge Div Cambridge MD	301-228-4600
Alco Electronic Products Inc North Andover MA	617-685-4371
Amerace Corp Hackettstown NJ	201-852-1122
Amphenol Products Lisle IL	312-983-3500
Aromat Corp Mountainside NJ	201-232-4260
Bruce Electric Equipment Corp Lindenhurst NY	516-226-2424
Carlingswitch Inc W Hartford CT	203-233-5551
Connectron Inc Laurence Harbor NJ	201-583-3000
Crouse-Hinds Co Syracuse NY	315-477-7000
Eaton Corp/Cutler-Hammer Products Milwaukee WI	414-449-6000
Electric Switches Inc Los Angeles CA	213-660-1310
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Ercona Corp Port Jeffers Sta NY	516-331-5500
E-T-A Circuit Breakers Chicago IL	312-647-8303
GTE Lighting Products Danvers MA	617-777-1900
GTE Precision Materials Danvers MA	617-777-1900
GTE Sylvania Control Devices Standish ME	207-642-4535
Heinemann Electric Co Lawrenceville NJ	609-882-4800
Idec Izumi Corp Osaka Japan	81-6-2005530
IDEC Systems & Controls Corp Santa Clara CA	408-988-7500
Inmark Corp Norwalk CT	203-866-8474
Klockner-Moeller Natick MA	617-655-1910
Linrose Electronics Inc Plainview NY	516-293-2520
Littelfuse Inc Des Plaines IL	312-824-1188
Mechanical Products Inc Jackson MI	517-782-0391
Parko Electronics Co Inc Irvine CA	714-660-8014
Peerless Radio Corp Lynbrook NY	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN	412-386-1000
Raychem Corp Menlo Park CA	415-351-3333
Reliance Electric Co Cleveland OH	800-245-4497
Sager Hingham MA	617-749-6700
Schurter Inc Petaluma CA	707-778-6311
SOS Lighting Devices Div MEMCO Philadelphia PA	215-423-7077
Specialties Mfg Co St Clair Shores MI	800-482-2828
Square D Co Palatine IL	312-397-2600
Sylvania Control Devices Standish ME	207-642-4535
Texas Instruments Inc Control Prods Attleboro MA	617-699-3283
Therm-O-Disc Inc Mansfield OH	419-756-5911
Trimax Div Trush Cazenovia NY	315-655-3515
Underwriters Safety Device Allied Amphenol Prods Chicago IL	312-867-4600
Wadsworth Electric Mfg Co Inc Covington KY	606-431-0900
Wes-Garde Components Group Inc Hartford CT	203-525-6907
Workman Electronic Products Inc Sarasota FL	800-237-6666

CIRCUIT DEMONSTRATORS

See Demonstrators

CIRCUIT DESIGN AIDS

INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA	818-991-9614
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
MUPAC CORP BROCKTON MA	617-588-6110
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Bishop Graphics Inc Westlake Village CA	818-991-2600
Computer Sciences Corp El Segundo CA	213-615-0311
Control Technology Div AirBorn Elect Corp Garland TX	214-272-5544
Data I/O Corp Redmond WA	206-881-6444

Echelon Industries Inc Walnut CA	714-594-1891
Electrohome Ltd Kitchener ON	519-744-7111
E & L Instruments Inc New Haven CT	203-624-3103
GC Electronics Div Household Intl Rockford IL	815-968-9661
Gerber Scientific Instrument Co South Windsor CT	203-644-1551
Global Specialties Corp New Haven CT	203-624-3103
Handy Products/RSP Elec Branford CT	203-488-6603
Injectoral Electronics Corp Glen Cove NY	516-671-6010
International Instrumentation Inc Westlake Village CA	818-991-9614
Keuffel & Esser Co Parsippany NJ	201-428-7000
Mouser Electronics Mansfield TX	817-483-0165
Mupac Corp Brockton MA	617-588-6110
Optifab Inc Phoenix AZ	602-271-0921
Racal-Redac Inc Westford MA	617-692-4900
Sager Hingham MA	617-749-6700
Siliconix Inc Santa Clara CA	408-988-8000
United Tech Book Co Longmont CO	303-651-3184
Wayne Kerr Inc Woburn MA	617-938-8390
Wire Graphics Inc Farmingdale NY	516-293-1525
WRB Assoc Inc Troy MI	313-589-0054

CIRCUIT REPAIR STATIONS

See Printed Circuit Repair Stations

CIRCUITS

See Specific Type Desired;

See Also ICs Listings; Modules; Networks; Printed

Circuits; Wiring Devices

CIRCUITS—INTEGRATED

See IC Listings

CIRCUITS—PRINTED WIRING

See Printed Circuit Listings

CIRCUIT TESTERS

See Test Listings

CIRCULATORS

See Microwave Circulators & Gytrators

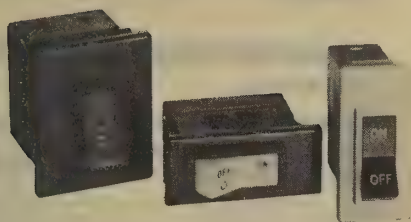
CLAD METALS

See Metals—Clad

CLAMPS—CABLE

CONCORD ELECTRONICS CORP NEW YORK NY	212-777-6571
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
ZIERICK MFG CORP MOUNT KISCO NY	914-666-2911
Accessories for Electronics Inc Baldwin NY	516-546-1751
Accurate Electronics Corp Elyria OH	216-365-1211
Air Electro Supply Inc Van Nuys CA	213-988-4400
Allmetal Screw Products Co Inc Garden City NY	516-222-1200
All-States Inc Chicago IL	312-728-0521
Alpha Wire Corp Elizabeth NJ	201-925-8000
Amrad Div Transcon Mfg Co Ft Smith AR	501-452-3987
Astrofab Inc Warren NJ	201-560-3800
Augat Inc Attleboro MA	617-222-6202
Blackburn Div FL Industries Sycamore IL	815-895-2501
Brady Co W H Industrial Prods Div Milwaukee WI	414-351-6630
BTC Electronic Components Inc Old Bridge NJ	201-536-8000
Budwig Mfg Co Ramona CA	619-789-0900
Caton Connector Corp Kingston MA	617-585-4315
Concord Electronics Corp New York NY	212-777-6571
Connector Systems Div BIW Santa Rosa CA	707-523-2030
Decibel Products Inc Dallas TX	214-631-0310
DEK Inc St Charles IL	312-377-2575
Dennison Mfg Co Fastener Div Framingham MA	617-879-0511
Eaton Corp Engineered Fasteners Div Cleveland OH	216-523-5361
Electrovert Inc Indus Elec & Elctn Prods Elmsford NY	914-592-7322
Federal Screw Products Inc Chicago IL	312-478-5744
GC Electronics Div Household Intl Rockford IL	815-968-9661
Glenair Inc Glendale CA	818-247-6000
Gries/Dynacast Div Coats & Clark Inc Yorktown Hts NY	914-633-8600
Hartwell Corp Placentia CA	714-993-4200
Heyco Molded Products Kanilworth NJ	201-245-0033
Hoffman Industrial Products Farmingdale NY	516-293-5244
Kellums Div Harvey Hubbell Inc Stonington CT	203-535-1256
Kestler Electronics Temple City CA	818-445-2892
Kings Electronics Co Inc Tuckaohoe NY	914-793-5000
Kulka Smith Inc Manasquan NJ	201-223-9400
Lynx Inc Leominster MA	617-537-6090
Oneida Electronic Mfg Inc Meadville PA	814-336-2125
Panduit Corp Tinley Park IL	312-532-1800
Reliance Electric Co Cleveland OH	800-245-4497
Richco Plastic Co Chicago IL	312-539-4060
Rose Enclosures Systems Inc Rockville MD	301-984-3770

Circuit Breakers

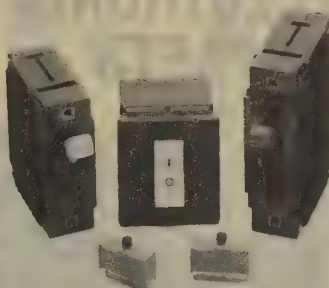


Model 203

Front panel mount device combines over-current protection, ON-OFF switching, pilot light. Series, shunt or relay trip.

Specifications: 1 to 3 poles. Ratings: 0.05-10A, 250Vac, 50Vdc, 10.1-20A, 120Vac, 32 Vdc. Interrupting capacity: 1000A.

Approval:



Models SNAPAK®, CARDGARD™, IEG and IEL.

All conform to VDE and IEC spacing requirements. CARDGARD is pc board mountable.

Specifications: SNAPAK®: 1 or 2 pole ratings: 0.10 to 15A at 32Vdc/125Vac, 0.10 to 7.5A at 50Vdc/250Vac. 2 pole only (2 pole breaking) and ratings; 7.6 to 15A at 125/250Vac, 32/50Vdc. Interrupting capacity: 1000A at 125Vac, 32Vdc and 50Vdc.

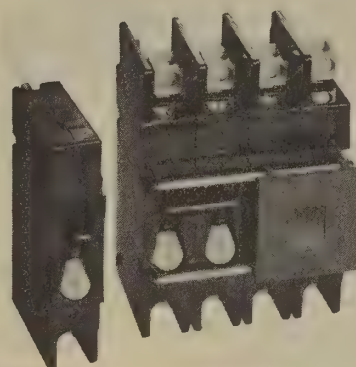
Approval: IEC

CARDGARD™: 1 pole. Ratings: 1.0 to 6.0A, 32Vdc, 250Vac. Interrupting capacity: 10 times rated current.

Approval:

IEG and IEL: 1 to 4 poles. Ratings: 0.05-30A, 65Vdc, 250Vac (Mod. IEL, 0.05-50A). Interrupting capacity: 2000A, 65Vdc, 3500A, 277Vac (Mod. IEL, 5000A, 277Vac).

Approval:

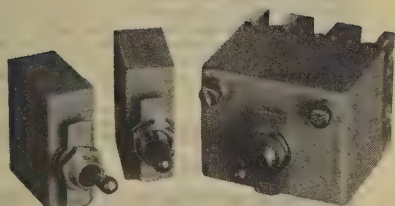


Model 209

Ideal for branch circuits. Mount in switch boards, panel enclosures, panel boards, junction boxes. Series includes 219 manual motor controller, 229 appliance controller, 249 marine power selector.

Specifications: 1 to 6 poles. Ratings: 0.10-100A, 125Vdc; 0.10-77A, 600Vac; 0.10-100A, 120, 240, 277 and 480 Vac. Interrupting capacity: 5000A.

Approval:



Models AP and UP

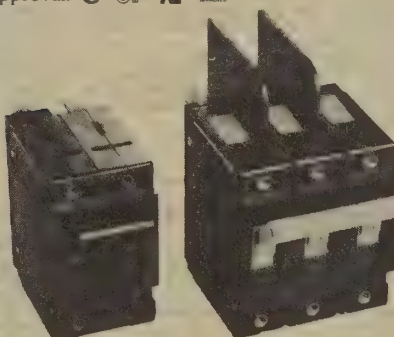
Hermetically sealed. DC, 50/60Hz or 400Hz versions. Various delays to meet your needs. UP version has wide glass terminals.

Specifications: 1 to 3 poles. Ratings: 0.05-20A, 240Vac, 50Vdc. Interrupting capacity: 1000A.

Approval:

(UP single pole series only)

Q P L : MIL-C-39019



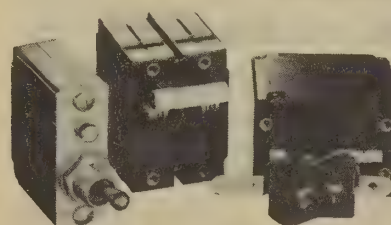
Models APL/UPL & 205

These breakers offer precision operation for critical service. Series, shunt and relay configuration options. Choice of delays, ratings. 205 dust-sealed for harsh environments.

Specifications: 1 to 9 poles. Ratings: 0.05-20A, 277Vac (Mod. 205, 277/480Vac); 0.05-50A, 250Vac, 65Vdc; 51-100A, 32Vdc. Interrupting capacity: 1000A, 65Vdc (Mod. 205 also 250Vac), 2000A, 32Vdc, 5000A, 120Vac (50A max. rating); 5000A, 277Vac (Mod. 205, 277/480Vac) (20A max. rating).

Approval:

Q P L : MIL-C-55629



Models APG/UPG

Low-cost, precision operation. Multipole assemblies, single or multi-handle. For data processing, broadcast equipment, vending machines, controllers, etc.

Specifications: 1 to 4 poles. Ratings: 0.02-30A, 277Vac, 65Vdc, 31-50A, 50Vdc. Interrupting capacity: 1000A, 277Vac, 65Vdc, and at 5000A, max. ratings of 30A at 120Vac, 20A at 250Vac, 10A at 277Vac.

Approval:

Q P L : MIL-C-55629

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SOS Lighting Devices Div MEMCO Philadelphia PA	215-423-7077
SPC Technology Bensenville IL	312-766-6711
Stewart Stamping Corp Yonkers NY	914-965-0816
Thomas & Betts Electrical Group Raritan NJ	201-685-1600
Transamerica Delaval Adel Fasteners Div Huntington WV	304-522-7345
Trico Mfg Corp Pewaukee WI	800-558-7008
Tru-Connector Corp Peabody MA	617-532-0775
Tyton Corp Milwaukee WI	414-355-1130
Umpco Inc Garden Grove CA	714-897-3531
UNR-Rohn Peoria IL	309-697-4400
Vertex Electronics Inc Farmingdale NY	516-293-9880
Whitso Inc Schiller Park IL	312-678-5200
Zierick Mfg Corp Mount Kisco NY	914-666-2911

CLAMPS—COMPONENT

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Aavid Engineering Inc Laconia NH	603-524-4443	
Accessories for Electronics Inc Baldwin NY	516-546-1751	
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Amrad Div Transcon Mfg Co Ft Smith AR	501-452-3987	
Altice Inc North Andover MA	617-681-1003	
Augat Inc Attleboro MA	617-222-2202	
Berg Inc Winfield M East Rockaway NY	516-599-5010	
Fae Industries Inc Huntington Station NY	516-271-0300	
Hartwell Corp Placentia CA	714-993-4200	
Instru-Lec Corp New Milford CT	203-355-3717	
Jan Hardware Mfg Co Inc Long Island City NY	212-361-0800	
Kestler Electronics Temple City CA	818-445-2692	
Keystone Electronics Corp New York NY	212-475-4600	
Kulka Smith Inc Manassquan NJ	201-223-9400	
Micro-Mounting Devices Inc Campbell CA	408-866-4626	
Panduit Corp Tinley Park IL	312-532-1800	
PIC Design Middlebury CT	203-758-8272	
Precision Mechanisms Corp Westbury NY	516-333-5955	
Richco Plastic Co Chicago IL	312-539-4060	
Ross Co Milton Southampton PA	215-355-0200	
Seastrom Mfg Co Inc Glendale CA	213-245-9121	
Sjoberg & Son Inc Cranston RI	401-461-8220	
SOS Lighting Devices Div MEMCO Philadelphia PA	215-423-7077	
SPC Technology Bensenville IL	312-766-6711	
Stamet Mfg Corp Fairfield NJ	201-227-2432	
Sterling Instrument Div Designtronics Inc New Hyde Park NY	516-328-3300	
Transamerica Delaval Adel Fasteners Div Huntington WV	304-522-7345	
Tyton Corp Milwaukee WI	414-355-1130	
Umpco Inc Garden Grove CA	714-897-3531	
Vemaline Prods Div O B Test Group Inc Providence RI	401-739-7600	

CLAMPS—SYNCHRO

See Synchro Clamps

CLAMPS—TUBE (ELECTRON)

Accessories for Electronics Inc Baldwin NY	516-546-1751
Argent Industries Inc Englewood OH	513-836-8633
Augat Inc Attleboro MA	617-222-2202
Industrial Electronic Hardware Corp New York NY	212-677-1881
Kestler Electronics Temple City CA	818-445-2692
National Radio Components Div Strux Corp Lindenhurst NY	516-957-8000
Richco Plastic Co Chicago IL	312-539-4060
Tyton Corp Milwaukee WI	414-355-1130

CLAMPS—TUBING

CONCORD ELECTRONICS CORP NEW YORK NY		212-777-6571
Accessories for Electronics Inc Baldwin NY	516-546-1751	
Amrad Div Transcon Mfg Co Ft Smith AR	501-452-3987	
Blackburn Div FL Industries Sycamore IL	815-895-6501	
Concord Electronics Corp New York NY	212-777-6571	
Dayco Corp Dayton OH	513-226-7000	
DEK Inc St Charles IL	312-377-2575	
Eaton Corp Engineered Fasteners Div Cleveland OH	216-523-5361	
Hartwell Corp Placentia CA	714-993-4200	
Kestler Electronics Temple City CA	818-445-2692	
Panduit Corp Tinley Park IL	312-532-1800	
Parker Hannifin Corp Hose Prods Div Wickliffe OH	216-943-5700	
Parker Hannifin Corp Parflex Div Ravenna OH	216-296-2871	
Richco Plastic Co Chicago IL	312-539-4060	
Ross Co Milton Southampton PA	215-355-0200	
SOS Lighting Devices Div MEMCO Philadelphia PA	215-423-7077	
Transamerica Delaval Adel Fasteners Div Huntington WV	304-522-7345	
Trico Mfg Corp Pewaukee WI	800-558-7008	
Tyton Corp Milwaukee WI	414-355-1130	
Up-Right Work Platforms Div Berkeley CA	415-843-0770	
Vertex Electronics Inc Farmingdale NY	516-293-9880	

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(ELECTROSTATIC)

Automated Production Concepts Inc Pompton Plains NJ	201-831-8300
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Heath Co Benton Harbor MI	616-982-3200
Hobson Brothers Inc Chicago IL	312-283-3600
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Research Products Corp Madison WI	608-257-8801
Scientific Enterprises Inc Broomfield CO	303-469-7801
Uvocs Inc Montgomeryville PA	215-822-0321

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Air Control Inc Huntingdon Valley PA	215-322-5800	
Allied Witan Co Inc Cleveland OH	216-237-9630	
Aluminum Filter Co Carpinteria CA	805-684-7651	
AMF Cuno General Filter Prods Meriden CT	203-237-5541	
Balston Inc Lexington MA	617-861-7240	
Brunswick Technetics San Diego CA	619-455-7260	
Bud Industries Inc Willoughby OH	216-946-3200	
Cambridge Filter Corp Syracuse NY	315-457-1000	
Carey Electronic Engineering Co Springfield OH	513-323-6300	
Clean Room Products Inc Ronkonkoma NY	516-588-7000	
Heat Systems-Ultrasonics Inc Farmingdale NY	516-694-9555	
Hoke Incorporated Cresskill NJ	201-568-9100	
Hunter Products Inc Bridgewater NJ	201-526-8440	
Mine Safety Appliances Co Pittsburgh PA	412-273-5175	
Osmonics Inc Hytrex Filters Div Minnetonka MN	612-933-2277	
Pall Ultrafine Filtration Corp East Hills NY	516-484-5400	
Parker Hannifin Corp Filter Div Metamora OH	418-944-4311	
Pure Aire Corp Canoga Park CA	818-998-3876	
Research Products Corp Madison WI	608-257-8801	
Serfilco Ltd Glenview IL	312-998-9300	
SSI Technologies Inc Janesville WI	608-755-1900	
Torit Div Donaldson Co Inc Minneapolis MN	612-887-3900	
Universal Air Filter Co East St Louis IL	618-271-7300	
Van Air Systems Inc Lake City PA	814-774-2631	
Wire Cloth Manufacturers Inc Radolph NJ	201-328-1000	

CLEANING FILTERS—FLUID

Allied Witan Co Inc Cleveland OH	216-237-9630
AMF Cuno General Filter Prods Meriden CT	203-237-5541
Balston Inc Lexington MA	617-861-7240
Barrett Centrifugals Worcester MA	617-755-4306
Brunswick Technetics San Diego CA	619-455-7260
CNI Inc Orefield PA	215-395-6444
H B S Equipment Corp Los Angeles CA	213-726-3033
Hoke Incorporated Cresskill NJ	201-568-9100
Odell Co M P Hoffman Estates IL	312-991-2828

Osmonics Inc Hytrex Filters Div Minnetonka MN	612-933-2277
Osmonics Inc Osmo Membrane Sys Div Minnetonka MN	612-933-2277
Pall Ultrafine Filtration Corp East Hills NY	516-484-5400
Parker Hannifin Corp Filter Div Metamora OH	418-944-4311
Sel-Rex/OMI Int'l Corp Nutley NJ	201-667-5200
Serfilco Ltd Glenview IL	312-998-9300
SSI Technologies Inc Janesville WI	608-755-1900
Wire Cloth Manufacturers Inc Radolph NJ	201-328-1000

CLEANING MACHINES

See Machines—Degreasing; Ultrasonic

Equipment—Cleaners & Ultraviolet Ozone

Cleaning

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ALCONOX INC NEW YORK NY		212-473-1300
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ADV PG 93		
Adre Co Inc Milwaukee WI	414-352-3531	
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Allied Corp Morristown NJ	201-455-6300	
Alpha Metals Inc Jersey City NJ	201-434-6778	
Barco Chemical Products Inc Chicago IL	312-427-2916	
Burlin & Co Inc Indianapolis IN	800-428-7149	
Caig Labs Inc Escondido CA	619-743-7143	
Chamtronics Inc Hauppauge NY	516-582-3322	
Cobehn Inc Fairfield NJ	201-227-6675	
Computer-Link Corp Wilmington MA	617-657-8820	
Controlled Environment Equipment Corp Westbrook ME	207-854-9126	
CRC Chemicals USA Warminster PA	215-674-4300	
CuTech Inc Hatfield PA	215-822-8900	
Echelon Industries Inc Walnut CA	714-594-1891	
Eraser Co Inc The Syracuse NY	315-454-3237	
Felton Brush Inc Manchester NH	603-669-1970	
GC Electronics Div Household Intl Rockford IL	815-968-9661	
Holt Lloyd Corp/LPS Chemical Prods Tucker GA	404-934-7800	
Ideal Industries Inc Sycamore IL	815-895-5181	
Injectoral Electronics Corp Glen Cove NY	516-671-6010	
Jelmar Lincolnwood IL	312-675-8400	
Jonard Industries Corp Tuckahoe NY	914-793-0700	
Kenco Industries Inc Atlanta GA	404-475-6100	
Kester Solder Div Litton Sys Inc Chicago IL	312-235-1600	
L & R Mfg Co Kearny NJ	201-991-5330	
Macdonald & Co Glendale CA	818-241-1101	
Miller-Stephenson Chemical Co Inc Danbury CT	203-743-4447	
Oakite Products Inc Berkeley Hts NJ	201-464-6900	
Pace Transducer Co Div CJ Instr Inc Tarzana CA	818-996-4131	
The PQ Corp Valley Forge PA	215-293-7200	
Rho-Chem Corp Inglewood CA	213-776-6233	
Scientific Enterprises Inc Broomfield CO	303-469-7801	
SPC Technology Bensenville IL	312-766-6711	
Sperex Corp Gardena CA	213-323-6162	
Texwipe Co Upper Saddle River NJ	201-327-5577	
Tower Chemical Corp Palmer PA	215-253-6200	
Transene Co Inc Rowley MA	617-948-2501	
Urban Chemical Co Deerfield IL	312-498-3080	
Workman Electronic Products Inc Sarasota FL	800-237-6666	

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ADV PG 93		
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Chemcut Corp State College PA	814-238-0514	
Chemex Div RBP Corp Milwaukee WI	414-258-8711	
CuTech Inc Hatfield PA	215-822-8900	
Dow Chemical Co Midland MI	517-636-1000	
Dynachem Corp Tustin CA	714-730-4200	
Eastman Kodak Co Rochester NY	716-724-4000	
Echelon Industries Inc Walnut CA	714-594-1891	
Electronic Controls Design Inc Mulino OR	503-829-9108	
Eraser Co Inc The Syracuse NY	315-454-3237	
Ethomach Inc Waltham MA	617-893-2020	
Felton Brush Inc Manchester NH	603-669-1970	
GC Electronics Div Household Intl Rockford IL	815-968-9661	
Holt Lloyd Corp/LPS Chemical Prods Tucker GA	404-934-7800	
Injectoral Electronics Corp Glen Cove NY	516-671-6010	
Jelmar Lincolnwood IL	312-675-8400	
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L & R Mfg Co Kearny NJ	201-991-5330	
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CRC Chemicals USA Warminster PA	215-674-4300
CuTech Inc Hatfield PA	215-822-8900
Dow Chemical Co Midland MI	517-636-1000
Dynachem Corp Tustin CA	714-730-4200
Echelon Industries Inc Walnut CA	714-594-1891
Electro-Science Labs Inc King of Prussia PA	215-272-8000
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Felton Brush Inc Manchester NH	603-669-1970
Gardiner Solder Co Chicago IL	312-847-0100
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Holt Lloyd Corp/LPS Chemical Prods	
Tucker GA	404-934-7800
Injectoral Electronics Corp Glen Cove NY	516-671-6010
Jelmar Lincolnwood IL	312-675-8400
Kenco Industries Inc Atlanta GA	404-475-6100
Kester Solder Div Litton Sys Inc Chicago IL	312-235-1600
L & R Mfg Co Kearny NJ	201-991-5330
MacDermid Inc Waterbury CT	203-575-5600
Macdonald & Co Glendale CA	818-241-1101
M & T Chemicals Inc Rahway NJ	201-499-0200
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Miller-Stephenson Chemical Co Inc	
Danbury CT	203-743-4447
Multicore Solders Westbury NY	516-334-7997
Oakite Products Inc Berkeley Hts NJ	201-464-6900
Pace Transducer Co Div CJ Instr Inc	
Tarzana CA	818-996-4131
Phillips Mfg Co Chicago IL	312-338-6200
Rho-Chem Corp Inglewood CA	213-776-6233
Sel-Rex/OMI Intl Corp Nutley NJ	201-667-5200
Shipley Co Inc Newton MA	617-969-5500
Static Inc Skippack PA	215-584-9800
Texwipe Co Upper Saddle River NJ	201-327-5577
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Urban Chemical Co Deerfield IL	312-498-3080
Vertex Electronics Inc Farmingdale NY	516-293-9880

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ADV PG 93	

ACL Inc Elk Grove Village IL	312-981-9212
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Temple City CA	818-579-6270
Allied Corp Morristown NJ	201-455-6300
Alpha Metals Inc Jersey City NJ	201-434-6778
AMP Products Corp Southeastern PA	215-647-1000
Applied Plastics Co Inc El Segundo CA	313-322-8050
Auric Corp Newark NJ	201-242-4110
Barco Chemical Products Inc Chicago IL	312-427-2916
Baron-Blakeslee Inc Sub Purex Ind Inc	
Melrose Park IL	312-450-3900
Brulin & Co Inc Indianapolis IN	800-428-7149
Caig Labs Inc Escondido CA	619-743-7143
Chemex Div RBP Corp Milwaukee WI	414-258-8711
Chemtronics Inc Hauppauge NY	516-582-3322
CNI Inc Orefield PA	215-395-6444
Cobehrn Inc Fairfield NJ	201-227-6675
Conap Inc Olean NY	716-372-9650
CRC Chemicals USA Warminster PA	215-674-4300
Devcon Corp Danvers MA	617-777-1100
Dow Chemical Co Midland MI	517-636-1000
Du Pont De Nemours & Co Inc E I Chemicals & Pigments	
Dept Wilmington DE	800-441-9442
Dynaloy Inc Hanover NJ	201-887-9270
Eastman Chemical Products Inc Kingsport TN	800-327-8626
Echelon Industries Inc Walnut CA	714-594-1891
Etchomatic Inc Waltham MA	617-893-2020
Formulabs Industrial Inks Inc Escondido CA	800-531-9358



SOLVENT CLEANERS

- Freon® TF Solvent
- Freon® TP-35 Solvent
- Freon® TMS Solvent
- Freon® TA Solvent
- Freon® TE Solvent
- Freon® TES Solvent
- 1,1,1 Trichloroethane Solvent

FLUX REMOVERS

- Freon® TMC flux remover
- Heavy duty flux remover

AERODUSTER

FREEZING & FAULT ISOLATION PRODUCTS

- Quik Freeze®
- Quik Freeze® Anti Static

TAPE HEAD & CONTACT CLEANER

- Magnetic Tape Head Cleaner
- Contact Re-Nu®
- Contact Re-Nu® & Lube
- Connector Cleaner

- Freon is DuPont's registered trademark for its fluorocarbon compounds
- Registered trademark of Miller-Stephenson

RELEASE AGENTS

- Release Agent/Dry Lubricant
- Release Agent Red Indicator
- Release Agent Heated Mold

SPECIALTY PRODUCTS

- Plastic, Glass, Metal Cleaner
- En-Stat Static Eliminator
- T-B1 Cutting Fluid
- Milshield™ Conductive Coating

CONFORMAL COATINGS

- Urethane Coating
- Acrylic Coating
- Silicone Resin Coating
- Protective Varnish

COBRA® SOLVENT SPRAY BRUSH

Miller-Stephenson offers a wide range of chemicals for electronics. Available in aerosols, pre-moistened Wet Pads™ and small bulk containers.



Los Angeles • Chicago • Toronto

Corporate Office:
Miller-Stephenson Chemical Co., Inc.
George Washington Highway
Danbury, Conn. 06810 • 203/743-4447

Formulated Resins Inc Greenville RI	401-949-2060
Gardiner Solder Co Chicago IL	312-847-0100
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Geneva Group of Co's Inc Eden Prairie MN	612-829-1724
Grobet File Co of America Inc Carlstadt NJ	201-939-6700
Hightemp Resins Inc Stamford CT	203-357-7401
Holt Lloyd Corp/LPS Chemical Prods	
Tucker GA	404-934-7800
Injectoral Electronics Corp Glen Cove NY	516-671-6010
Isochem Products Co Sub Rohm & Haas	
Lincoln RI	401-723-2100
Jelmar Lincolnwood IL	312-675-8400
Jonard Industries Corp Tuckaheoe NY	914-793-0700
Kenco Industries Inc Atlanta GA	404-475-6100
Kester Solder Div Litton Sys Inc Chicago IL	312-235-1600
L & R Mfg Co Kearny NJ	201-991-5330
MacDermid Inc Waterbury CT	203-575-5600
Mallinckrodt Inc St Louis MO	314-895-2000
Martindale Electric Co Cleveland OH	216-521-8567
McGean Rohco Inc Cleveland OH	216-441-4900
Miller-Stephenson Chemical Co Inc	
Danbury CT	203-743-4447
Multicore Solders Westbury NY	516-334-7997
Oakite Products Inc Berkeley Hts NJ	201-464-6900
Odell Co M P Hoffman Estates IL	312-991-2828
Pace Transducer Co Div CJ Instr Inc	
Tarzana CA	818-996-4131
Phillips Mfg Co Chicago IL	312-338-6200
Polysciences Inc Warrington PA	215-343-6484
The PQ Corp Valley Forge PA	215-293-7200
Rawn Co Inc Spooner WI	715-635-8711
Rho-Chem Corp Inglewood CA	213-776-6233
SPC Technology Bensenville IL	312-766-6711
Sperex Corp Gardena CA	213-323-6162
Texwipe Co Upper Saddle River NJ	201-327-5577
Tower Chemical Corp Palmer PA	215-253-8206
Transene Co Inc Rowley MA	617-948-2501
Urban Chemical Co Deerfield IL	312-498-3080
Vertex Electronics Inc Farmingdale NY	516-293-9880

CLEANING MATERIALS—ULTRASONIC CLEANING

ALCONOX INC NEW YORK NY	212-473-1300
ADV PG 92	
Alconox Inc New York NY	212-473-1300
Allied Corp Morristown NJ	201-455-6300
Atomerger Chemicals Corp Plainville NY	516-349-8800
Barco Chemical Products Inc Chicago IL	312-427-2916
Baron-Blakeslee Inc Sub Purex Ind Inc	
Melrose Park IL	312-450-3900
Blackstone Ultrasonics Inc Jamestown NY	716-665-2620
Branson Cleaning Equipment Co Shelton CT	203-929-7301
Chemtronics Inc Hauppauge NY	516-582-3322

Clean Room Products Inc Ronkonkoma NY	516-588-7000
Dow Chemical Co Midland MI	517-636-1000
Dynaloy Inc Hanover NJ	201-887-9270
Heat Systems-Ultrasonics Inc Farmingdale NY	516-694-9555
Holt Lloyd Corp/LPS Chemical Prods	
Tucker GA	404-934-7800
Injectoral Electronics Corp Glen Cove NY	516-671-6010
Kenco Industries Inc Atlanta GA	404-475-6100
Lewis Corp Oxford CT	203-264-3100
L & R Mfg Co Kearny NJ	201-991-5330
MacDermid Inc Waterbury CT	203-575-5600
Macdonald & Co Glendale CA	818-241-1101
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Mark V Lab Inc East Granby CT	203-653-7201
MDC Industries Inc Philadelphia PA	215-426-5925
Oakite Products Inc Berkeley Hts NJ	201-464-6900
Pace Transducer Co Div CJ Instr Inc	
Tarzana CA	818-996-4131
Phillips Mfg Co Chicago IL	312-338-6200
Polysciences Inc Warrington PA	215-343-6484
The PQ Corp Valley Forge PA	215-293-7200
Rho-Chem Corp Inglewood CA	213-776-6233
Scientific Enterprises Inc Broomfield CO	303-469-7801
Tower Chemical Corp Palmer PA	215-253-8206
Transene Co Inc Rowley MA	617-948-2501
Urban Chemical Co Deerfield IL	312-498-3080
Westinghouse Elec Corp Industrial Equip Div	
Sykesville MD	301-795-2800

CLEAN ROOM ACCESSORIES

See Also Benches & Stools; Dry Boxes & Glove

Boxes

ACL Inc Elk Grove Village IL	312-981-9212
Air Control Inc Huntingdon Valley PA	215-322-5800
Aluminum Filter Co Carpinteria CA	805-684-7651
American Ultraviolet Co Chatham NJ	201-635-8355
Associated Sales & Bag Co Milwaukee WI	414-272-2380
Branson Cleaning Equipment Co Shelton CT	203-929-7301
Cambridge Filter Corp Syracuse NY	315-457-1000
Cargocaire Engineering Corp Amesbury MA	617-388-0600
Chemtronics Inc Hauppauge NY	516-582-3322
Clauss Cutlery Co Fremont OH	419-322-7344
Clean Room Products Inc Ronkonkoma NY	516-588-7000
Cobehrn Inc Fairfield NJ	201-227-6675
Controlled Environment Equipment Corp	
Westbrook ME	207-854-9126
Echelon Industries Inc Walnut CA	714-594-1891
Edmont Coshocton OH	614-622-4311
InterMetro Industries Corp Wilkes-Barre PA	717-825-2741
Lensclean Inc South Hackensack NJ	201-641-7555
Macdonald & Co Glendale CA	818-241-1101
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Matrix Engineering Corp Gardena CA	213-770-0521

Mine Safety Appliances Co Pittsburgh PA.....	412-273-5175
Olympic Plastics Co Los Angeles CA.....	213-837-5321
Parent Metal Products Philadelphia PA.....	215-332-6800
Pure Aire Corp Canoga Pk CA.....	818-998-3876
Research Associates Inc Linden NJ.....	201-862-1154
Research Products Corp Madison WI.....	608-257-8801
Richmond Technology Inc Redlands CA.....	714-794-2111
Scientific Enterprises Inc Broomfield CO.....	303-469-7801
Simco Co Inc Hatfield PA.....	215-822-2171
Solder Absorbing Technology Springfield MA.....	413-788-6191
Standard Glove Co of N J Englewood NJ.....	201-567-7500
Static Inc Skippack PA.....	215-584-9600
Texwipe Co Upper Saddle River NJ.....	201-327-5577
Unimation Inc Danbury CT.....	203-744-1800
Vidaro Corp Kent OH.....	216-673-7413
Weber Technical Products Amesbury MA.....	617-388-5662

CLEAN ROOMS

Air Control Inc Huntingdon Valley PA.....	215-322-5800
B-M-A Inc Ayrer MA.....	617-772-3310
Cambridge Filter Corp Syracuse NY.....	315-457-1000
Clean Room Products Inc Ronkonkoma NY.....	516-588-7000
Controlled Environment Equipment Corp Westbrook ME.....	207-854-9126
Forma Scientific Div Mallinckrodt Inc Marietta OH.....	614-373-4763
Pure Aire Corp Canoga Pk CA.....	818-998-3876
Solder Absorbing Technology Springfield MA.....	413-788-6191
Static Inc Skippack PA.....	215-584-9600
Weber Technical Products Amesbury MA.....	617-388-5662

CLIPS—ALLIGATOR

CONCORD ELECTRONICS CORP NEW YORK NY.....	212-777-6571
ELECTRIC SWITCHES INC LOS ANGELES CA.....	213-660-1310
KEYSTONE ELECTRONICS CORP NEW YORK NY.....	212-475-4600
MG ELECTRONICS HAUPPAUGE NY MOUSER ELECTRONICS MANSFIELD TX.....	516-582-3400 817-483-0165
SAGER HINGHAM MA ADV PGS Green Pages/Footstrips SHOKAI FAR EAST LTD HARTSDALE NY.....	617-749-6700 914-681-0700
Allmetal Screw Products Co Inc Garden City NY.....	516-222-1200
AMP Products Corp Southeastern PA.....	215-647-1000
Concord Electronics Corp New York NY.....	212-777-6571
Electric Switches Inc Los Angeles CA.....	213-660-1310
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
Imtronics Industries Ltd St Petersburg FL.....	813-577-9010
ITT Pomona Electronics Pomona CA.....	714-623-3463
Keystone Electronics Corp New York NY.....	212-475-4600
Kulka Smith Inc Manasquan NJ.....	201-223-9400
Lynn Electronics Corp Feasterville PA.....	215-355-8200
MG Electronics Hauppauge NY.....	516-582-3400
Mouser Electronics Mansfield TX.....	817-483-0165
Mueller Electric Co Cleveland OH.....	216-771-5225
National Tel-Tronics Div Technodyne Inc Meadville PA.....	814-724-6440
Philmore Mfg Co Inc Inwood NY.....	516-239-6161
Sager Hingham MA.....	617-749-6700
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
SOS Lighting Devices Div MEMCO Philadelphia PA.....	215-423-7077
SPC Technology Bensenville IL.....	312-766-6711
States Co Div Multi-Amp Corp Dallas TX.....	214-333-3201
Tektronix Inc Beaverton OR.....	800-547-6711
Vaco Products Co Northbrook IL.....	312-564-3300
Workman Electronic Products Inc Sarasota FL.....	800-237-6666

CLIPS—BATTERY

AMP INCORPORATED HARRISBURG PA	717-564-0100
CONCORD ELECTRONICS CORP NEW YORK NY.....	212-777-6571
INTERNATIONAL COMPONENTS CORP MELVILLE NY.....	516-293-1500
KEYSTONE ELECTRONICS CORP NEW YORK NY.....	212-475-4600
ADV PG 37 MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
SAGER HINGHAM MA ADV PGS Green Pages/Footstrips SHOKAI FAR EAST LTD HARTSDALE NY.....	617-749-6700 914-681-0700
ZIERICK MFG CORP MOUNT KISCO NY	914-666-2911
Accessories for Electronics Inc Baldwin NY.....	516-546-1751
Acme Model Engineering Co Ridgefield NJ.....	201-943-7650
Allmetal Screw Products Co Inc Garden City NY.....	516-222-1200
AMP Incorporated Harrisburg PA.....	717-564-0100
Argent Industries Inc Englewood OH.....	513-836-6533
Concord Electronics Corp New York NY.....	212-777-6571
Continental Precision Stamping Inc Pomona CA.....	714-594-9014
Eaton Corp Engineered Fasteners Div Cleveland OH.....	216-523-5361
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
Imtronics Industries Ltd St Petersburg FL.....	813-577-9010
Industrial Electronic Hardware Corp New York NY.....	212-677-1881
International Components Corp Melville NY.....	516-293-1500
Keystone Electronics Corp New York NY.....	212-475-4600
Kulka Smith Inc Manasquan NJ.....	201-223-9400
Midland-Ross Corp Electronic Connector Div Cambridge MA.....	617-491-5400
Mouser Electronics Mansfield TX.....	817-483-0165
Mueller Electric Co Cleveland OH.....	216-771-5225
Philmore Mfg Co Inc Inwood NY.....	516-239-6161

Richco Plastic Co Chicago IL.....	312-539-4060
Sager Hingham MA.....	617-749-6700
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Sjoberg & Son Inc Cranston RI.....	401-461-8220
SOS Lighting Devices Div MEMCO Philadelphia PA.....	215-423-7077
Transamerica Delaval Adel Fasteners Div Huntington WV.....	304-522-7345
Waldom Electronics Chicago IL.....	312-585-1212
Workman Electronic Products Inc Sarasota FL.....	800-237-6666
Zierick Mfg Corp Mount Kisco NY.....	914-666-2911

CLIPS—TEST

CONCORD ELECTRONICS CORP NEW YORK NY.....	212-777-6571
GRAYHILL INC LA GRANGE IL	312-354-1040
HUNTER PRODUCTS INC BRIDGEWATER NJ.....	201-526-8440
MICRO ELECTRONIC SYSTEMS INC BROOKFIELD CT.....	203-775-1440
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
SAGER HINGHAM MA ADV PGS Green Pages/Footstrips SHOKAI FAR EAST LTD HARTSDALE NY.....	617-749-6700 914-681-0700
A P Products Incorporated Mentor OH.....	216-354-2101
Autosplice Inc Woodside NY.....	718-429-0500
Concord Electronics Corp New York NY.....	212-777-6571
Electronics Warehouse Inc Old Lyme CT.....	203-434-9838
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
Global Specialties Corp New Haven CT.....	203-624-3103
Grayhill Inc La Grange IL.....	312-354-1040
Hunter Products Inc Bridgewater NJ.....	201-526-8440
Industrial Devices Inc Edgewater NJ.....	201-224-4700
ITT Pomona Electronics Pomona CA.....	714-623-3463
Jettron Products Inc East Hanover NJ.....	201-887-0571
Kulka Smith Inc Manasquan NJ.....	201-223-9400
Loranger Intl Corp Warren PA.....	814-723-2250
Lynn Electronics Corp Feasterville PA.....	215-355-8200
Micro Electronic Systems Inc Brookfield CT.....	203-775-1440
Midland-Ross Corp Electronic Connector Div Cambridge MA.....	617-491-5400
Mouser Electronics Mansfield TX.....	817-483-0165
Mueller Electric Co Cleveland OH.....	216-771-5225
Philmore Mfg Co Inc Inwood NY.....	516-239-6161
Russell Industries Inc Oceanside NY.....	516-536-5000
Sager Hingham MA.....	617-749-6700
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Sjoberg & Son Inc Cranston RI.....	401-461-8220
SOS Lighting Devices Div MEMCO Philadelphia PA.....	215-423-7077
States Co Div Multi-Amp Corp Dallas TX.....	214-333-3201
Tech-Ech Inc Plymouth MA.....	617-747-0300
Tektronix Inc Beaverton OR.....	800-547-6711
Trico Mfg Corp Pewaukee WI.....	800-558-7008
Vector Electronic Co Inc Sylmar CA.....	818-365-9661
Workman Electronic Products Inc Sarasota FL.....	800-237-6666

CLIPS—TRANSISTOR

See Transistor Parts

CLOCKS—ATOMIC

See Standards

CLOCKS—DIGITAL

DCI INC OLATHE KS	913-782-5672
M F ELECTRONICS CORP NEW ROCHELLE NY.....	914-576-6570
NEWPORT ELECTRONICS INC SANTA ANA CA.....	714-540-4914
ACI Audior Communications Inc Ottawa ON.....	613-523-9933
Applied Electro Technology Int Santa Ana CA.....	714-556-6570
Austron Inc Austin TX.....	512-251-2313
Bayside Controls Clifton NJ.....	201-778-6611
Borg Instruments Inc Delavan WI.....	414-728-5531
Chrono-Log Corp Havertown PA.....	215-853-1130
Codar Technology Inc Longmont CO.....	303-776-0472
Creative Micro Systems Los Alamitos CA.....	714-493-2484
C-Tek Inc Wakefield MA.....	617-246-1720
Datachron Inc Anaheim CA.....	714-751-2211
Data-Sud/Systems US Inc Tempe AZ.....	602-438-1492
Datum Inc Timing/AACOM Divs Anaheim CA.....	714-533-6333
Daytronix Corp Miamisburg OH.....	513-866-3300
DCI Inc Olathe KS.....	913-782-5672
DigiTec Dayton OH.....	513-254-6251
Discon Industries Inc Pompano Beach FL.....	305-782-7424
Electromatic Equipment Co Inc Cedarhurst NY.....	516-295-4300
ESE El Segundo CA.....	213-322-2136
FPC Inc/Frequency Cont Prods Woodside NY.....	718-458-5811
Futronics Inc Sunnyvale CA.....	408-735-1122
Haydon Switch & Instrument Inc Waterbury CT.....	203-756-7441
Heath Co Benton Harbor MI.....	616-982-3200
Henschel Corp Newburyport MA.....	617-462-2400
Hewlett-Packard Palo Alto CA.....	415-857-8000
Kessler-Ellis Products Co Atlantic Highlands NJ.....	201-291-0500
Kinemetrics/True Time Santa Rosa CA.....	707-528-1230
Kysor/Cadillac Cadillac MI.....	616-775-4681
M F Electronics Corp New Rochelle NY.....	914-576-6570
NES Inc Carpentersville IL.....	312-426-5900
Newport Electronics Inc Santa Ana CA.....	714-540-4914
PCI Inc Santa Clara CA.....	408-980-0591
PPM Inc Cleveland OH.....	216-292-6006
Q-Tech Corp Los Angeles CA.....	213-820-4921
Racal-Dana Instruments Inc Irvine CA.....	714-859-8999
Refac Electronics Corp Winsted CT.....	203-379-2731

Rohde & Schwarz GmbH & Co KG.....	089-41290
Muenchen W Germany.....	314-535-1682
Sprengnether Instruments Inc St Louis MO.....	314-535-1682
Torpey Controls & Engineering Ltd Scarborough ON.....	416-298-7788
UFI Morro Bay CA.....	805-772-1203

CLOTHING—LINT FREE

Clean Room Products Inc Ronkonkoma NY.....	516-588-7000
Edmont Coshocton OH.....	614-622-4311
General Scientific Equipment Co Philadelphia PA.....	215-564-6366
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Mine Safety Appliances Co Pittsburgh PA.....	412-273-5171
Red Kap Industries Nashville TN.....	615-889-6801
Research Associates Inc Linden NJ.....	201-862-1151
Standard Glove Co of N J Englewood NJ.....	201-567-7500
Vidaro Corp Kent OH.....	216-673-7413

CLUTCHES

See Brakes & Clutches

COATING COMPOUNDS—ANTISTATIC

MILLER-STEPHENSON CHEMICAL CO INC DANBURY CT.....	203-743-4447
TECKNIT CRANFORD NJ	201-272-5500
Acheson Colloids Co Port Huron MI.....	313-984-5581
ACL Inc Elk Grove Village IL.....	312-981-9212
Advanced Coatings & Chemicals Temple City CA.....	818-579-6270
Armstrong Products Co Warsaw IN.....	219-267-3226
Barco Chemical Products Inc Chicago IL.....	312-427-2916
Chemtronics Inc Hauppauge NY.....	516-582-3322
Chomerics Inc Woburn MA.....	617-935-4850
CRC Chemicals USA Warminster PA.....	215-674-4300
Crown Industrial Products Hebron IL.....	615-648-2424
Deposition Technology Inc San Diego CA.....	619-578-9400
Echelon Industries Inc Walnut CA.....	714-594-1891
E/M Corp West Lafayette IN.....	317-463-2511
Engelhard Industries Iselin NJ.....	201-321-5900
Formulated Resins Inc Greenville RI.....	401-949-2060
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
General Electric Co Silicone Prods Div Waterford NY.....	518-237-3330
Holt Lloyd Corp/LPS Chemical Prods Tucker GA.....	404-934-7800
Keene Corp Laminates Div East Providence RI.....	401-434-2340
Master Bond Inc Englewood NJ.....	201-343-8988
Micro-Circuits Co New Buffalo MI.....	616-469-2727
Miller-Stephenson Chemical Co Inc Danbury CT.....	203-743-4447
Polysciences Inc Warrington PA.....	215-343-6484
Prevent Static Inc Pennsauken NJ.....	609-665-5595
Richmond Technology Inc Redlands CA.....	714-794-2111
Simco Co Inc Hatfield PA.....	215-822-2171
Solder Absorbing Technology Springfield MA.....	413-788-6191
Technit Cranford NJ.....	201-272-5500
Wescorp Div DAL Indus Inc Mt View CA.....	415-969-7717

COATING COMPOUNDS—CONDUCTIVE & SHIELDING

MILLER-STEPHENSON CHEMICAL CO INC DANBURY CT.....	203-743-4447
TECKNIT CRANFORD NJ	201-272-5500
Acheson Colloids Co Port Huron MI.....	313-984-5581
Acme Div Allied Prods Corp New Haven CT.....	203-562-2171
Advanced Coatings & Chemicals Temple City CA.....	818-579-6270
Armstrong Products Co Warsaw IN.....	219-267-3226
Bel-Ray Co Inc Farmingdale NJ.....	201-938-2421
Chase & Sons Inc Randolph MA.....	617-963-2600
Cherry Display Products Corp El Paso TX.....	915-779-7774
Chomerics Inc Woburn MA.....	617-935-4850
Deposition Technology Inc San Diego CA.....	619-578-9400
Dynalloy Inc Hanover NJ.....	201-887-9270
Echelon Industries Inc Walnut CA.....	714-594-1891
Electro-Science Labs Inc King of Prussia PA.....	215-272-8000
E/M Corp West Lafayette IN.....	317-463-2511
Emerson & Cuming Canton MA.....	617-828-3300
Engelhard Industries Iselin NJ.....	201-321-5900
Ferro Corp Coatings Div Cleveland OH.....	216-641-8580
Flight Research A Geotol Co Richmond VA.....	804-222-0163
Formulated Resins Inc Greenville RI.....	401-949-2060
Furane Products Co Los Angeles CA.....	818-247-6210
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
Hardman Incorporated Belleville NJ.....	201-751-3000
Holt Lloyd Corp/LPS Chemical Prods Tucker GA.....	404-934-7800
Hysol Div The Dexter Corp Industry CA.....	212-968-6511
Ideal Industries Inc Sycamore IL.....	815-895-5181
Isochem Products Co Sub Rohm & Haas Lincoln RI.....	401-723-2100
Keene Corp Laminates Div East Providence RI.....	401-434-2340
Master Bond Inc Englewood NJ.....	201-343-8988
Materials for Electronics Inc Jamaica NY.....	212-322-9400
Mereco Div Metachem Resins Corp Warwick RI.....	401-828-4550
Metaplast Electrochemicals Corp Bronx NY.....	212-328-2444
Micro-Circuits Co New Buffalo MI.....	616-469-2727
Miller-Stephenson Chemical Co Inc Danbury CT.....	203-743-4447
Optical Coating Lab Inc Santa Rosa CA.....	707-545-6440
Pervel Industries Plainfield CT.....	203-564-2741
Pierce & Stevens Chemical Corp Buffalo NY.....	716-631-8991

hpley Co Inc Newton MA	617-969-5500
ohio Engineered Materials Co	
Niagara Falls NY	716-278-2000
perex Corp Gardena CA	213-323-6162
terling Group Reichhold Chemicals	
Sewickley PA	412-766-7600
ecknit Cranford NJ	201-272-5500
hermalloy Inc Dallas TX	214-243-4321
homas & Betts Electrical Group Raritan NJ	201-685-1800
ra-Con Inc Medford MA	617-391-5550
ransene Co Inc Rowley MA	617-948-2501
imited Mineral & Chemical Corp	
New York NY	212-966-4330
escorp Div DAL Indus Inc Mt View CA	415-969-7717
Wilson-Fiberfil International Evansville IN	800-457-3764

COATING COMPOUNDS—PROTECTIVE, FLEXIBLE & REMOVABLE

ONAP INC OLEAN NY	716-372-9650
ADV PG 95	
MILLER-STEPHENSON CHEMICAL CO INC	
DANBURY CT	203-743-4447
Advanced Coatings & Chemicals	
Temple City CA	818-579-6270
Applied Plastics Co Inc El Segundo CA	213-322-8050
rmstrong Products Co Warsaw IN	219-267-3226
uric Corp Newark NJ	201-242-4110
Big Labs Inc Escondido CA	619-743-7143
hemtronics Inc Hauppauge NY	516-582-3322
onap Inc Olean NY	716-372-9650
oricone Corp Northfield IL	312-441-5800
RC Chemicals USA Warmminster PA	215-674-4300
ennis Chemical Co St Louis MO	314-771-1800
evcon Corp Danvers MA	617-777-1100
olph Co John C Monmouth Junction NJ	201-329-2333
ow Corning Corp Midland MI	517-496-4000
chelon Industries Inc Walnut CA	714-594-1891
ectro-Science Labs Inc King of Prussia PA	215-272-8000
erson & Cuming Canton MA	617-828-3300
chomatic Inc Waltham MA	617-893-2020
ormulated Resins Inc Greenville RI	401-949-2060
urane Products Co Los Angeles CA	818-247-6210
eneral Electric Co Silicone Prods Div	
Waterford NY	518-237-3330
ardman Incorporated Belleville NJ	201-751-3000
olt Lloyd Corp/LPS Chemical Prods	
Tucker GA	404-934-7800
ochem Products Co Sub Rohm & Haas	
Lincoln RI	401-723-2100
Keene Corp Laminates Div	
East Providence RI	401-434-2340
nto Industries Inc Atlanta GA	404-475-6100
ster Solder Div Litton Sys Inc Chicago IL	312-235-1600
aster Bond Inc Englewood NJ	201-343-8983
erco Div Metachem Resins Corp	
Warwick RI	401-828-4550
Miller-Stephenson Chemical Co Inc	
Danbury CT	203-743-4447
itto Denko America Inc Port Washington NY	516-484-9700
aratronix Inc Attleboro MA	617-222-8979
erco & Stevens Chemical Corp Buffalo NY	716-631-8991
olysciences Inc Warrington PA	215-343-6484
ramid Plastics Inc Hope AR	501-777-5759
chenectady Chemicals Inc Schenectady NY	518-370-4200
onap Inc New Newton MA	617-969-5500
perex Corp Gardena CA	213-323-6162
SWS Silicones Corp Adrian MI	517-263-5711
ansene Co Inc Rowley MA	617-948-2501
escorp Div DAL Indus Inc Mt View CA	415-969-7717
oper tubing Co Los Angeles CA	213-321-3901

COATING COMPOUNDS—PROTECTIVE, PERMANENT SEALING

ONAP INC OLEAN NY	716-372-9650
ADV PG 95	
INTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
MILLER-STEPHENSON CHEMICAL CO INC	
DANBURY CT	203-743-4447
Advanced Coatings & Chemicals	
Temple City CA	818-579-6270
Applied Plastics Co Inc El Segundo CA	213-322-8050
emco Products Inc Ossining NY	914-762-0685
rmstrong Products Co Warsaw IN	219-267-3226
uric Corp Newark NJ	201-242-4110
l-Ray Co Inc Farmingdale NJ	201-938-2421
Big Labs Inc Escondido CA	619-743-7143
install Inc E Weymouth MA	617-337-6075
ase & Sons Inc Randolph MA	617-963-2600
hemtronics Inc Hauppauge NY	516-582-3322
onap Inc Olean NY	716-372-9650
oricone Corp Northfield IL	312-441-5800
tronics Corp Brooklyn NY	718-646-7996
RC Chemicals USA Warmminster PA	215-674-4300
rown Industrial Products Hebron IL	815-648-2424
ennis Chemical Co St Louis MO	314-771-1800
evcon Corp Danvers MA	617-777-1100
olph Co John C Monmouth Junction NJ	201-329-2333
ow Chemical Co Midland MI	517-496-4000
ow Corning Corp Midland MI	517-496-4000
elman Chemical Products Inc Kingsport TN	800-327-8626
chelon Industries Inc Walnut CA	714-594-1891
ectro-Science Labs Inc King of Prussia PA	215-272-8000
erson & Cuming Canton MA	617-828-3300
oxylite Corp Anaheim CA	714-630-7910
chomatic Inc Waltham MA	617-893-2020
ro Corp Coatings Div Cleveland OH	216-641-8580
ormulated Resins Inc Greenville RI	401-949-2060
rane Products Co Los Angeles CA	818-247-6210
eneral Electric Co Silicone Prods Div	
Waterford NY	518-237-3330
rdman Incorporated Belleville NJ	201-751-3000

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Hightemp Resins Inc Stamford CT	203-357-7401
Holt Lloyd Corp/LPS Chemical Prods	
Tucker GA	404-934-7800
Humiseal Div Columbia Chase Corp	
Woodside NY	718-932-0800
Hunter Products Inc Bridgewater NJ	201-526-8440
Hysol Div The Dexter Corp Industry CA	213-968-6511
Injectorall Electronics Corp Glen Cove NY	516-671-6010
Innotech Corp Trumbull CT	203-371-0191
International Electronic Research Corp	
Burbank CA	213-849-2481
Isochem Products Co Sub Rohm & Haas	
Lincoln RI	401-723-2100
Keene Corp Laminates Div	
East Providence RI	401-434-2340
Kenco Industries Inc Atlanta GA	404-475-6100
Kester Solder Div Litton Sys Inc Chicago IL	312-235-1600
Master Bond Inc Englewood NJ	201-343-8983
Mereco Div Metachem Resins Corp	
Warwick RI	401-828-4550
Miller-Stephenson Chemical Co Inc	
Danbury CT	203-743-4447
Multi-Tech Industries Inc Marlboro NJ	201-431-0550
Nitto Denko America Inc Port Washington NY	516-484-9700
Nova Tran Corp Clear Lake WI	715-263-2333
Oakite Products Inc Berkeley Hts NJ	201-464-6900
Panelgraphic Corp West Caldwell NJ	201-227-1500
Paratronix Inc Attleboro MA	617-222-8979
Pierce & Stevens Chemical Corp Buffalo NY	716-631-8991
Polymer Corp Reading PA	215-320-6600
Polysciences Inc Warrington PA	215-343-6484
Polytronix Inc Richardson TX	214-238-7045
The PQ Corp Valley Forge PA	215-293-7200
Pyramid Plastics Inc Hope AR	501-777-5759
Schenectady Chemicals Inc Schenectady NY	518-370-4200
Shipley Co Inc Newton MA	617-969-5500
SPC Technology Bensenville IL	312-766-6711
Sperex Corp Gardena CA	213-323-6162
Sterling Group Reichhold Chemicals	
Sewickley PA	412-766-7600
SWS Silicones Corp Adrian MI	517-263-5711
Tra-Con Inc Medford MA	617-391-5550
Transene Co Inc Rowley MA	617-948-2501
Viking Chemical Products Inc Waverly NY	607-565-4551
Wescorp Div DAL Indus Inc Mt View CA	415-969-7717
Wilson-Fiberfil International Evansville IN	800-457-3764

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ADV PG 95	
Acheson Colloids Co Port Huron MI	313-984-5581
Advanced Coatings & Chemicals	
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Applied Plastics Co Inc El Segundo CA	213-322-8050
Armstrong Products Co Warsaw IN	219-267-3226
Bel-Ray Co Inc Farmingdale NJ	201-938-2421
Cambridge Plating Co Inc Belmont MA	617-489-2750
Conap Inc Olean NY	716-372-9650
Coricone Corp Northfield IL	312-441-5800
CRC Chemicals USA Warmminster PA	215-674-4300
Crown Industrial Products Hebron IL	815-648-2424
Dennis Chemical Co St Louis MO	314-771-1800
Devcon Corp Danvers MA	617-777-1100
Dilric Optics Inc Hudson MA	617-562-9373
Dolph Co John C Monmouth Junction NJ	201-329-2333
Dow Corning Corp Midland MI	517-496-4000
Eastman Chemical Products Inc Kingsport TN	800-327-8626
Echelon Industries Inc Walnut CA	714-594-1891
E/M Corp West Lafayette IN	317-463-2511
Emerson & Cuming Canton MA	617-828-3300
Formulated Resins Inc Greenville RI	401-949-2060
General Electric Co Silicone Prods Div	
Waterford NY	518-237-3330
Hardman Incorporated Belleville NJ	201-751-3000
Hightemp Resins Inc Stamford CT	203-357-7401
Hi-Shear Technology Corp Torrance CA	213-326-8110
Holt Lloyd Corp/LPS Chemical Prods	
Tucker GA	404-934-7800
Hysol Div The Dexter Corp Industry CA	213-968-6511
International Electronic Research Corp	
Burbank CA	213-849-2481
Isochem Products Co Sub Rohm & Haas	
Lincoln RI	401-723-2100
Keene Corp Laminates Div	
East Providence RI	401-434-2340
Kester Solder Div Litton Sys Inc Chicago IL	312-235-1600
Master Bond Inc Englewood NJ	201-343-8983
Mereco Div Metachem Resins Corp	
Warwick RI	401-828-4550
Nitto Denko America Inc Port Washington NY	516-484-9700
Oakite Products Inc Berkeley Hts NJ	201-464-6900
Paratronix Inc Attleboro MA	617-222-8979
Polymer Corp Reading PA	215-320-6600
Polysciences Inc Warrington PA	215-343-6484
Pyramid Plastics Inc Hope AR	501-777-5759
Schenectady Chemicals Inc Schenectady NY	518-370-4200
Shipley Co Inc Newton MA	617-969-5500
Sperex Corp Gardena CA	213-323-6162
Sterling Group Reichhold Chemicals	
Sewickley PA	412-766-7600
SWS Silicones Corp Adrian MI	517-263-5711
Tra-Con Inc Medford MA	617-391-5550
Transene Co Inc Rowley MA	617-948-2501
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Echelon Industries Inc Walnut CA	714-594-1891
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General Electric Co Silicone Prods Div	
Waterford NY	518-237-3330
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Tucker GA	404-934-7800
Humiseal Div Columbia Chase Corp	
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Oakite Products Inc Berkeley Hts NJ	201-464-6900
Paratronix Inc Attleboro MA	617-222-8979
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SPC Technology Bensenville IL	312-766-6711
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Lincoln RI	401-723-2100
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Master Bond Inc Englewood NJ	201-343-8983
Optical Coating Lab Inc Santa Rosa CA	707-545-6440
Paratronix Inc Attleboro MA	617-222-8979
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Isochem Products Co Sub Rohm & Haas Lincoln RI.....	401-723-2100
Keene Corp Laminates Div East Providence RI.....	401-434-2340
Master Bond Inc Englewood NJ.....	201-343-8983
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National Moldite Co Newark NJ.....	201-589-6860
Norelcom Industries Inc Farmingdale NY.....	516-249-7262
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Polygon Co Walkerton IN.....	219-586-3122
Precision Paper Tube Co Wheeling IL.....	312-537-4250
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Magnetico Inc Holtsville NY.....	516-654-118
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Northlake Engineering Inc Antioch IL.....	312-395-571
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Torotek Products Inc Grandview MO.....	816-761-631
Torotron Corp Mt Vernon NY.....	914-664-205
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Triad-Utrad Huntington IN.....	219-356-655
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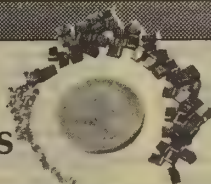


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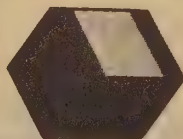
M Series broadband air core choke has high self-resonant frequency (SRF) from 1 to 30 GHz, with inductances (L) from 18 nH to 1 μ H and operating frequencies from 250 MHz. Size .004" - .170" L x .027" O.D. maximum.



PW and PVW Fixed and Tunable Chip Inductors. Inductances from 0.01 μ H to 1.0 mH, Typ Q's from 60@200 MHz to 30@790 KHz. Minimum size .140" W x 0.095" H x 0.180" L. Metalization is suitable for wire bonding or solder reflow.



ST Series are rectangular-shaped, microminiature, top tunable inductors, only .275" H x .100" x .200" to conserve space. With an internal adjusting screw, devices have inductances: 20 nH to 1 mH, typ Q's 30 to 50 over range, tolerances of $\pm 10\%$.



PK Series fixed chip inductors are rectangular for easy assembly, edge plated for forming solder fillet, and feature ceramic substrate. Contact metallization protects plating. Int. connections welded for reflow soldering. Inductances .010 μ H to 1 MH. Typical tolerance $\pm 10\%$, Q's from 60 at 200 MHz to 45 at 7.90 MHz; other available. Size only .160" L x .125" W x .130" H.



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1537	.15- 240	.156" x .375"	
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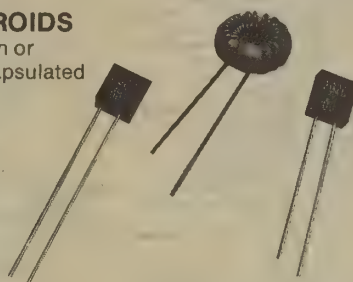
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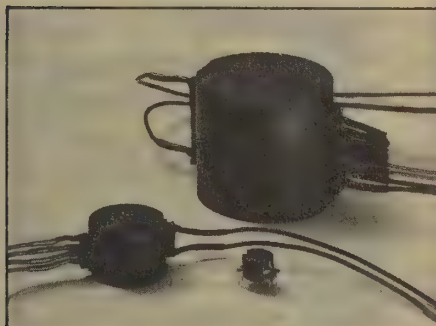
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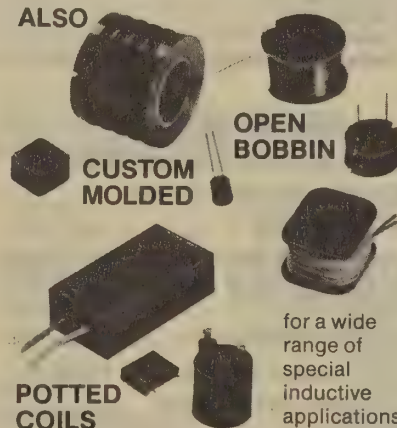
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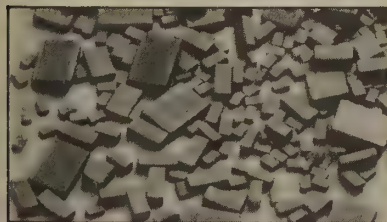
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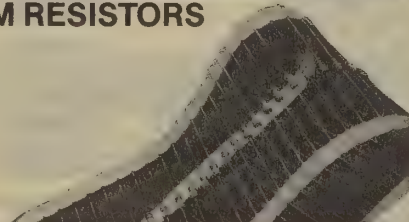
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Custom Coils Inc Alcester SD	605-934-2460
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Acme Electric Corp Olean NY..... 716-968-2400
Arnold Engineering Co Marengo IL..... 815-568-2000
Automatic Coil Corp Hialeah FL..... 305-883-5311
Aydin Radar & EW Div San Jose CA..... 408-629-1100
Better Coil & Transformer Corp Goodland IN..... 219-297-3111
Coil Specialty Co State College PA..... 814-234-7044
Cramer Coil & Transformer Co Inc
Saukville WI..... 414-284-9425
Elma Engineering Palo Alto CA..... 415-494-7303
E W C Inc Kenilworth NJ..... 201-245-3200
Inductive Products Inc Garden Grove CA..... 714-891-2572
James Electronics Inc Chicago IL..... 312-463-6500
JB Electronic Transformers Inc Chicago IL..... 312-342-0080
Leotronics Inc Longmont CO..... 303-443-6250
Magnetic Component Engineering Inc
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Magnetic Laboratories Apalachin NY..... 607-754-5800
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Permaluster Inc Burbank CA..... 213-849-4543
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Skyway Magnetics Warner Springs CA..... 619-782-3342
Tapecon Inc Rochester NY..... 716-621-8400
Teco Corp Winnisquam NH..... 603-524-1998
Thordarson Meissner Inc Mt Carmel IL..... 618-262-5121
Torwico Electronics Inc Lakewood NJ..... 609-364-1800
Tranex Inc Sub Micro-Mask Inc Sunnyvale CA..... 408-732-0441
Trans American Transformer Inc Medford NY..... 516-654-1880
Walker Scientific Inc Worcester MA..... 617-852-3674
Wayne Transformer Co Inc Paterson NJ..... 201-278-7674

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YANKTON SD..... 605-665-9301
ICONICS INC TYNGSBORO MA..... 617-649-7501
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Acme Electric Corp Olean NY..... 716-968-2400
Arnold Engineering Co Marengo IL..... 815-568-2000
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Better Coil & Transformer Corp Goodland IN..... 219-297-3111
Cramer Coil & Transformer Co Inc
Saukville WI..... 414-284-9425
Dale Electronics Inc Yankton Div Yankton SD..... 605-665-9301
Dayoung Mfg Inc Kirkland WA..... 206-823-4798
Eastman Kodak Co Rochester NY..... 716-724-4000
Endicott Coil Co Inc Binghamton NY..... 607-797-1263
Epco Products Inc Walkkill NY..... 914-895-2033
E W C Inc Kenilworth NJ..... 201-245-3200
Freed Transformer Co Inc Ridgewood NY..... 718-386-1300
James Electronics Inc Chicago IL..... 312-463-6500
Keytronics Inc Endicott NY..... 607-754-5405
Ladeco Inc Nashua NH..... 603-883-7158
Leonard Electric Products Co Brownsville TX..... 512-546-1625
Magnetic Component Engineering Inc
Culver City CA..... 213-398-4761
Minnesota Magnetic Coil Co Stacy..... 612-464-7714
Ogallala Electronics Sub Magnetics & Elctns Div
Ogallala NE..... 308-284-4093
Pace Transducer Co Div CJ Instr Inc
Tarzana CA..... 818-996-4131
Permaluster Inc Burbank CA..... 213-849-4543
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Precision Econwind Inc North Fort Myers FL..... 803-997-3860
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Wabash Electrical Components Group
Huntington IN..... 219-356-8300
Warsaw Coil Co Inc Warsaw IN..... 219-267-6041
Wayne Transformer Co Inc Paterson NJ..... 201-278-7674
Winatic Corp Vestal NY..... 607-729-6318

COILS—INDUCTANCES & INDUCTORS

See Inductances; Inductors

COILS—METALIZED GLASS

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ADV PG 97
SPRAGUE-GOODMAN ELECTRONICS INC
GARDEN CITY PARK NY..... 516-746-1385
ADV PG 77
GTE Precision Materials Danvers MA..... 617-777-1900



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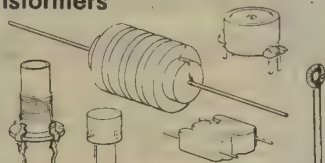
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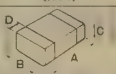
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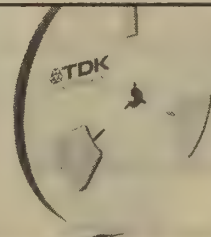




MULTILAYER CHIP INDUCTORS

Type	A	B	C	D	Inductance (μH)
MLF3216	3.2 ± 0.2 (.126)	1.6 ± 0.2 (.063)	0.6 ± 0.2 (.024) 1.1 ± 0.3 (.043)	0.5 ± 0.3 (.02)	0.047-33
MLF3225	3.2 ± 0.2 (.126)	2.5 ± 0.2 (.098)	1.1 ± 0.3 (.043) 2.5 ± 0.3 (.098)	0.5 ± 0.3 (.02)	39-220





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Oxley Developments Co Ltd Ulverston Cumbria England	0229-52621
Sprague-Goodman Electronics Inc Garden City Park NY	516-746-1385

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Coil Specialty Co State College PA	814-234-7044
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Dreisilker Electric Motors Inc Glen Ellyn IL	312-469-7510
Eastman Kodak Co Rochester NY	716-724-4000
Ladeco Inc Nashua NH	603-883-7158
Reliance Electric Co Cleveland OH	800-245-4497
RMS Motor Corp Binghamton NY	607-775-1100
Sag Harbor Industries Inc Sag Harbor NY	516-725-0440
Stone Safety Corp Wallingford CT	203-265-7131
Stonite Coil Corp Trenton NJ	609-585-6600
Tech Systems Corp Precise Power Div Thomaston CT	203-283-5801
Trans American Transformer Inc Medford NY	516-654-1880
U S Electronics Corp Union NJ	201-688-0111
Wayne Transformer Co Inc Paterson NJ	201-278-7674
Winatic Corp Vestal NY	607-729-6318

COILS—PICKUP, PROXIMITY (DETECT METAL PARTS)

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Dale Electronics Inc Yankton Div Yankton SD	605-665-9301
Designatronics Inc Sub Automatic Coil New Hyde Park NY	516-328-3333
Eastman Kodak Co Rochester NY	716-724-4000
Electro Corp Sarasota FL	813-355-8411
Endicott Coil Co Inc Binghamton NY	607-736-6339
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Gowanda Electronics Corp Gowanda NY	716-532-2234
Hoffer Flow Controls Port Monmouth NJ	201-787-1997
Mag-Con Inc St Paul MN	612-633-8820
Minnesota Magnetic Coil Co Stacy	612-464-7714
Permaluster Inc Burbank CA	213-849-4543
Piconics Inc Tyngsboro MA	617-649-7501
Precision Inc Minneapolis MN	612-537-9340
RCD Components Inc Manchester NH	603-669-0054
Richard Lee Co New Providence NJ	201-276-0710
Rodon Products Inc Westminster CA	714-898-3528
Schaevitz Engineering Pennsauken NJ	609-662-8000
Sensor Corp Scottsdale PA	412-887-4080
Smallwood Ltd S G Kitchener ON	519-894-2280
Stonite Coil Corp Trenton NJ	609-585-6600
Sub-Tronics Inc Stacy MN	612-462-2541
Transducer Systems Inc Kulpville PA	215-256-4611
Wabash Electrical Components Group Huntington IN	219-356-8300
Walker Scientific Inc Worcester MA	617-852-3674
Winatic Corp Vestal NY	607-729-6318

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ADV PG 499	
Coil Specialty Co State College PA	814-234-7044
Cord Electronics Inc Westbury NY	516-935-3640
Cramer Coil & Transformer Co Inc Saukville WI	414-284-9425
Eastman Kodak Co Rochester NY	716-724-4000
Magnetic Component Engineering Inc Culver City CA	213-398-4761
Magnetico Inc Holtville NY	516-654-1166
Mitsumi Electronics Corp Melville NY	516-752-7730
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Cardwell Condenser Corp Lindenhurst NY	516-957-7200

Communication Coil Co Chicago IL	312-637-1333
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Dale Electronics Inc Yankton Div Yankton SD	605-665-9301
Designatronics Inc Sub Automatic Coil New Hyde Park NY	516-328-3333
Eastman Kodak Co Rochester NY	716-724-4000
Elma Engineering Palo Alto CA	415-494-7303
Lepel Corp Maspeth NY	212-426-4580
Lindberg/Cycle-Dyne Unit Gen Signal Chicago IL	312-942-2500
Midland-Ross Corp Electronic Connector Div Cambridge MA	617-491-5400
Miller Co L C Monterey Park CA	213-268-3611
Mitsumi Electronics Corp Melville NY	516-752-7730
NWL Transformers Bordertown NJ	609-298-7300
Nytronic Components Group Inc Darlington SC	803-393-5421
Ogallala Electronics Sub Magnetics & Elctns Div Ogallala NE	308-284-4093
Raydyne/Ako Corp Butler WI	414-781-8360
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Automatic Coil Corp Hialeah FL	305-883-5311
Coil Specialty Co State College PA	814-234-7044
Cramer Coil & Transformer Co Inc Saukville WI	414-284-9425
Designatronics Inc Sub Automatic Coil New Hyde Park NY	516-328-3333
Eastman Kodak Co Rochester NY	716-724-4000
Permaluster Inc Burbank CA	213-849-4543
Precision Econwind Inc North Fort Myers FL	803-997-3860
RCD Components Inc Manchester NH	603-669-0054
Sag Harbor Industries Inc Sag Harbor NY	516-725-0440
Shokai Far East Ltd Hartsdale NY	914-681-0700
Skyway Magnetics Warner Springs CA	619-782-3342
Toko America Inc Mt Prospect IL	312-297-0070
Tur-Bo Jet Products Co Inc Rosemead CA	818-285-1294
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Toko America Inc Mt Prospect IL	312-297-0070
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SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
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Deyoung Mfg Inc Kirkland WA	206-823-4798
Eastman Kodak Co Rochester NY	716-724-4000
Industrial/Midwec Capacitor Corp Rolling Meadows IL	312-577-0120
James Electronics Inc Chicago IL	312-463-6500
JB Electronic Transformers Inc Chicago IL	312-342-0080
Microtran Co Inc Valley Stream NY	516-561-6050
Minnesota Magnetic Coil Co Stacy	612-464-7714
Pan-Magnetics Intl Inc Carson CA	213-532-1790
Precision Inc Minneapolis MN	612-537-9340
Rodon Products Inc Westminster CA	714-898-3528
Sag Harbor Industries Inc Sag Harbor NY	516-725-0440
Shokai Far East Ltd Hartsdale NY	914-681-0700
Smallwood Ltd S G Kitchener ON	519-894-2280
Sub-Tronics Inc Stacy MN	612-462-2541
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HISONIC INC OLATHE KS	913-782-0001
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ADV PG 97	
INDUCTOR SUPPLY INC. HUNTINGTON BEACH CA	714-891-4522
ADV PG 226	
MICROTRAN CO INC VALLEY STREAM NY	516-561-6050
PAN-MAGNETICS INTL INC CARSON CA	213-532-1790
ADV PG 493	
PICONICS INC TYNGSBORO MA	617-649-7501
ADV PG 98	
PREM MAGNETICS INC MCHENRY IL	815-385-2700
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ADV PG 103	
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AIE Magnetics Div Vernitron Nashville TN	615-244-9002
American Trans-Coil Corp Richmond Hill NY	718-441-5200
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Component Specialties Corp Temple City CA	213-287-3221
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Cramer Coil & Transformer Co Inc Saukville WI	414-284-9425
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El-Rad Mfg Co Chicago IL	312-478-7301
Endicott Coil Co Inc Binghamton NY	607-797-1261
ESC Electronics Corp Palisades Park NJ	201-947-0400
E W C Inc Kenilworth NJ	201-245-3201
Forbes & Wagner Inc Silver Creek NY	716-934-2699
Freed Transformer Co Inc Ridgewood NY	718-386-1301
GKD Electronics Santa Ana CA	714-261-2221
Gowanda Electronics Corp Gowanda NY	716-532-2239
Grand Transformers Inc Grand Haven MI	616-842-5431
Hisonic Inc Olathe KS	913-782-0001
Inductive Products Inc Garden Grove CA	714-891-2572
Inductor Supply Inc. Huntington Beach CA	714-891-4522
Industrial/Midwec Capacitor Corp Rolling Meadows IL	312-577-0120
James Electronics Inc Chicago IL	312-463-6500
JB Electronic Transformers Inc Chicago IL	312-342-0080
Jeffers Electronics Inc Nogales AZ	602-287-5851
Jetrionics Co Div J L Hall Co Inc Santa Rosa CA	707-544-2431
Kappa Networks Inc Rahway NJ	201-541-1601
Keytronics Inc Endicott NY	607-754-5401
K G S Electronics Pasadena CA	818-798-0781
Ladeco Inc Nashua NH	603-883-7158
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Magnetic Component Engineering Inc Culver City CA	213-398-4761
Magnetic Laboratories Apalachin NY	607-754-5800
Magnetico Inc Holtsville NY	516-654-1166
Microtran Co Inc Valley Stream NY	516-561-6050
Mini-Magnetics Co Inc Fremont CA	415-490-7500
Minnesota Magnetic Coil Co Stacy	612-464-7714
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Nytronics Components Group Inc Darlington SC	803-393-5421
Pan-Magnetics Intl Inc Carson CA	213-532-1790
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Sag Harbor Industries Inc Sag Harbor NY	516-725-0440
Schott Corp Wayzata MN	612-475-1173
SFE Technologies San Fernando CA	818-365-9411
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Warsaw Coil Co Inc Warsaw IN	219-267-6041
Wayne Transformer Co Inc Paterson NJ	201-278-7674
Winatic Corp Vestal NY	607-729-6318

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Automatic Coil Corp Hialeah FL	305-883-5311
Avial Radar & EW Div San Jose CA	408-629-1100
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Phillips Electronic Comps & Mats Div Eindhoven Netherlands	040791111
Toko America Inc Mt Prospect IL	312-297-0070
Walker Scientific Inc Worcester MA	617-852-3674

COILS—VARIABLE

See Inductances—Variable

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PICONICS INC TYNGSBORO MA	617-649-7501
ADV PG 98	
PREM MAGNETICS INC MCHENRY IL	815-385-2700
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SCHOTT CORP WAYZATA MN	612-475-1173
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
U S ELECTRONICS CORP UNION NJ	201-688-0111
ADV PG 103	
WALKER SCIENTIFIC INC WORCESTER MA	617-852-3674
Aircraft Instruments Co Doylestown PA	215-348-5274
American Magnetics Corp Cartersville IL	618-985-4838
Apollo Magnetics Corp Los Angeles CA	213-381-2500
A P W Co Inc Rockaway NJ	201-627-0643
Automatic Coil Corp Hialeah FL	305-883-5311
Automation Devices Inc Fairview PA	814-474-5561
Aydin Radar & EW Div San Jose CA	408-629-1100

Custom Coils-Solenoids Custom Encapsulated Coils Custom Bobbin Coils

- LOW INITIAL TOOLING
- MOLDED PLASTIC
- EPOXY-CLASS A,B,F,H
- UNIVERSAL MOLD FRAMES

SINCE 1956 PIONEER PRODUCER OF ENCAPSULATED COILS BY TRANSFER MOLDING

u. s. electronics corp.
Quality Magnetic Components Since 1943



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Barker & Williamson Bristol PA	215-788-5581
Beil Industries J W Miller Div Rancho Dominguez CA	213-537-5200
Bel-Tronics Corp Addison IL	312-543-7777
Better Coil & Transformer Corp Goodland IN	219-297-3111
BH Electronics Burnsville MN	612-894-9590
Boeing Electronics Tukwila WA	206-575-5755
Caddell-Burns Mfg Co Inc Mineola NY	516-746-2310
Caddell Coil Corp Poultney VT	802-287-4055
Capco/Lectrohm Grand Junction CO	303-243-8753
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Centroid Inc Syosset NY	516-822-4770
Chet Engineering Co Sepulveda CA	818-786-7226
Coil-Q Corp Bronxville NY	914-337-4775
Coil Specialty Co State College PA	814-234-7044
Coil Winders Mineola NY	516-746-2310
Component Specialties Corp Temple City CA	213-287-3221
Computer Components Inc Pelham NY	914-738-1611
Coto Corp Providence RI	401-943-2686
Cramer Coil & Transformer Co Inc Saukville WI	414-284-9425
Custom Coil & Transformer Co Zanesville OH	614-452-6973
Custom Coils Inc Alcester SD	605-934-2460
Delevan Div Amer Prec Indus Inc East Aurora NY	716-652-3600
Designatronics Inc Sub Automatic Coil New Hyde Park NY	516-328-3333
Deyoung Mfg Inc Kirkland WA	206-823-4798
Douglas Randall Div Pawcatuck CT	203-599-2075
Dreisler Electric Motors Inc Glen Ellyn IL	312-469-7510
Eastman Kodak Co Rochester NY	716-724-4000
Electrical Windings Inc Chicago IL	312-235-3360
Electronic Coils Inc Springfield MA	413-736-6339
Electronic Transformer Corp Totowa NJ	201-942-2222
Elma Engineering Palo Alto CA	415-494-7303
El-Rad Mfg Co Chicago IL	312-478-7300
Endicott Coil Co Inc Binghamton NY	607-797-1263
E W C Inc Kenilworth NJ	201-245-3200
Forbes & Wagner Inc Silver Creek NY	716-934-2691
GKD Electronics Santa Ana CA	714-261-2271
Gowanda Electronics Corp Gowanda NY	716-532-2234
Grand Transformers Inc Grand Haven MI	616-842-5430
Inductive Products Inc Garden Grove CA	714-891-2572
InResCo Inc Point Pleasant NJ	201-892-5881
James Electronics Inc Chicago IL	312-463-6500
Kappa Networks Inc Rahway NJ	201-541-1600
K C Industries Inc Cambridge NE	308-697-4711
Keytronics Inc Endicott NY	607-754-5405
K G S Electronics Pasadena CA	818-798-0786
Ladesco Inc Nashua NH	603-883-7158
Lelectronics Inc Longmont CO	303-443-6250
Mag-Con Inc St Paul MN	612-633-8820
Magnetek Corp Boulder CO	303-442-6700
Magnetic Component Engineering Inc Culver City CA	213-398-4761
Magnetek Laboratories Apalachin NY	607-754-5800
Magnetico Inc Holtsville NY	516-654-1166
Megatron Electronic Power Bordentown NJ	609-298-7300
Microtran Co Inc Valley Stream NY	516-561-6050
Midland-Ross Corp Electronic Connector Div Cambridge MA	617-491-5400
Minnesota Magnetic Coil Co Stacy	612-464-7714
Montevideo Technology Inc Montevideo MN	612-269-6562
Nicollet Mfg Inc Minneapolis MN	612-779-7919
NWL Transformers Bordentown NJ	609-298-7300
Nyco Transformer Co t/a New York Coil Pottstown PA	215-327-4106
Ogallala Electronics Sub Magnetics & Elctns Div Ogallala NE	308-284-4093
Osborne Transformer Corp Detroit MI	313-368-4136
Pace Transducer Co Div CJ Instr Inc Tarzana CA	818-996-4131
Pan-Magnetics Intl Inc Carson CA	213-532-1790
Permaluster Inc Burbank CA	213-849-4543
Peschel Instruments Inc Cape Coral FL	813-574-3164
Piconics Inc Tyngsboro MA	617-649-7501
Precision Econwind Inc North Fort Myers FL	803-997-3860
Precision Inc Minneapolis MN	612-537-9340
Prem Magnetics Inc McHenry IL	815-385-2700
Sag Harbor Industries Inc Sag Harbor NY	516-725-0440
Schott Corp Wayzata MN	612-475-1173
Shokai Far East Ltd Hartsdale NY	914-681-0700
S K G Associates Inc Norwell MA	617-878-7250
Smallwood Ltd S G Kitchener ON	519-894-2280
SR Engineering Inc Garden Grove CA	714-554-4200
Stonite Coil Corp Trenton NJ	609-585-6600
Sub-Tronics Inc Stacy MN	612-462-2541

Technitrol Inc Philadelphia PA	215-426-9105
Teco Corp Winnisquam NH	603-524-1998
Telecrafters Corp Harrisburg PA	717-564-8993
Thordarson Meissner Inc Mt Carmel IL	618-262-5121
Toko America Inc Mt Prospect IL	312-297-0070
Torelco Inc Irvington NJ	201-374-8641
Torotron Corp Mt Vernon NY	914-664-2050
Tranex Inc Sub Micro-Mask Inc Sunnyvale CA	408-732-0441
Transducer Systems Inc Kulpville PA	215-256-4611
Tur-Bo Jet Products Co Inc Rosemead CA	818-285-1294
U S Electronics Corp Union NJ	201-688-0111
Viz Test Equip Div Viz Mfg Co Philadelphia PA	215-844-2626
Walker Scientific Inc Worcester MA	617-852-3674
Warsaw Coil Co Inc Warsaw IN	219-267-6041
Wayne Transformer Co Inc Paterson NJ	201-278-7674
Winatic Corp Vestal NY	607-729-6318

COIL TESTERS

See Testers—Coil

COIL WINDERS

See Machines, Coil Winding

COINCIDENCE ANALYZERS

See Analyzers

COLLECTOR RINGS (EXCEPT SLIP RINGS)

Meridian Lab Middleton WI	608-836-7571
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COLLIMATORS

Barnes Engineering Co Stamford CT	203-348-5381
Davidson Optonics Inc West Covina CA	818-962-5181
EG & G Gamma Scientific Inc San Diego CA	619-279-8034
Electro-Optical Industries Inc Santa Barbara CA	805-964-6701
Ercona Corp Port Jefferson Sta NY	516-331-5500
Eureka X-Ray Tube Co Div Litton Indus Chicago IL	312-545-3126
Farrand Optical Co Inc Valhalla NY	914-428-6800
Gaertner Scientific Corp Chicago IL	312-281-5335
Gordon Enterprises Inc North Hollywood CA	818-985-5500
Infrared Industries Inc-Instruments Div Santa Barbara CA	805-684-4181
Melikes Griot Irvine CA	714-556-8200
NK Instrument Group Garden City NY	516-222-0200
Rank Precision Corp Norfolk MA	617-528-4100
Rank Precision Industries Inc Des Plaines IL	312-297-7720
Recon/Physical Inc Barrington IL	312-381-2400
Spectra-Physics Inc Mountain View CA	415-961-2550

COLORIMETERS (COLOR ANALYZERS)

Du Pont De Nemours & Co Inc E I Instrument Sys Wilmington DE	302-772-5488
EG & G Gamma Scientific Inc San Diego CA	619-279-8034
GCA/Instruments & Equip Group Chicago IL	312-227-2660
Integrated Photomatrix Inc Mountainside NJ	201-233-6010
Photo Research Div Kolmogorov Corp Burbank CA	818-843-6100
Sargent-Welch Scientific Co Skokie IL	312-677-0600
Simco/Ramic Corp Medford OR	503-776-9800
Spectron Engineering Inc Denver CO	303-623-8987

COLUMBIUM

See Metals—Niobium; Wire, Bare—Niobium

COMMUNICATIONS EQUIPMENT

See Categories Referenced As Follows:

Adapters—Panoramic
Amplifiers
Antenna Listings
Cables
Character Generators
Communications Systems
Commutators
Computers, Digital—Communications System
Control
Controls, Remote
Converters Listings
Countermeasures Equipment
Couplers
Data Processing Reference List
Data Synchronizers—Telemetry
Decoders
Decommutators
Demodulators
Demultiplexers
Detectors, Microwave
Diplexers
Discriminators
Display Terminals
Duplexers
Earphones-Headphones
Encoders
Facsimile Listings
Filters
Frequency Dividers
Frequency Doublers & Multipliers
Generators, Signal
Guidance & Navigation Reference List
IC's Listings
Instruments & Accessories Reference List
Intercommunications Systems
Keys
Key Sets
Kits—Amateur Radio
Klystron Stabilizers
Lightning Arresters
Magnetic Tape Recorders
Microphones
Microwave Listings
Mixers
Modems
Modulators
Multicoders
Multicouplers
Multiplexers
Optoelectronic Systems
Oscillators
Power Converters
Power Generators
Power Inverters
Power Supplies
Pressurization Systems
Printers
Programmers—Broadcast

Radarsondes
Radiometers
Radiosondes
Receivers Listings (Incl. Transceivers)
Repeaters
Rotary Joints
Scramblers
Shelters
Sonobuoys
Speakers
Surge Protectors
Switching Matrixes
Switching Systems
Telephones
Teleprinters (Tape)
Teletypewriter Equipment
Terminations
Test Sets
Test Systems
Time Code Generators
Trailers & Vans
Translators
Transmitters
Tuners
TV Listings
Waveguide Listings
Word Generators

COMMUNICATIONS PROCESSORS (EXCEPT COMPUTERS—DATA COMMUNICATIONS CONTROL)

Able Computer Costa Mesa CA..... 714-979-7030
Advanced Systems Concepts Inc
Pasadena CA..... 213-793-8972
Amdahl Communications Systems Div
Richardson TX..... 214-699-9500
Applied Communications Div Amstar Tech Prods Inc
Frederick MD..... 301-694-5300
Complex Systems Inc Huntsville AL..... 205-830-4310
Computer Communications Inc Torrance CA..... 213-320-9101
Conversational Voice Technologies Corp
Gurnee IL..... 312-249-5560
Data General Corp Westboro MA..... 617-366-8911
Digital Communication Assoc Alpharetta GA..... 404-442-4000
Digital Equipment Corp Maynard MA..... 617-897-5111
Dynatech Packet Tech Alexandria VA..... 703-642-9391
General Instrument Corp Govt Systems Div
Hicksville NY..... 516-933-3408
HAL Communications Corp Urbana IL..... 217-367-7373
Harris Corp Govt Sys Sector Melbourne FL..... 305-727-4000
Innovative Electronics Inc Miami FL..... 305-624-1644
Kahn Communications Inc Westbury NY..... 516-222-2221
Kurz Instruments Inc Carmel Valley CA..... 408-659-3421
Lockheed Electronics Co Inc Plainfield NJ..... 201-757-1600
Memorex Corp Santa Clara CA..... 408-987-1000
Moseley Associates Inc Goleta CA..... 805-968-9621
NCR Comten Inc St Paul MN..... 612-638-7777
Ocean Technology Inc Burbank CA..... 213-849-7111
Paradyne Corp Largo FL..... 813-530-2000
Rolm Corp—Mil-Spec Computers
San Jose CA..... 408-942-8000
SCI Systems Inc Huntsville AL..... 205-882-4800
Signatron Inc Lexington MA..... 617-861-1500
Swintek Enterprises Campbell CA..... 408-378-8091
Systech Corp San Diego CA..... 619-453-8970
Tesdata Systems Corp McLean VA..... 703-827-4000
Timeplex Inc Woodcliff Lake NJ..... 201-391-1111
Watkins-Johnson Co Palo Alto CA..... 415-493-4141

COMMUNICATIONS RECEIVERS

See Receivers

COMMUNICATIONS SYSTEMS—AIRCRAFT (COMPLETE SYSTEMS)

See Also Receivers & Transmitters Listings

Applied Communications Div Amstar Tech Prods Inc
Frederick MD..... 301-694-5300
Astronautics Corp of America Milwaukee WI..... 414-447-8200

Bendix Air Transport Avionics Div
Ft Lauderdale FL..... 305-928-2100
ElectroSpace Systems Inc Richardson TX..... 214-783-2000
General Aviation Electronics Inc
Indianapolis IN..... 317-262-2000
Harris Corp Govt Sys Sector Melbourne FL..... 305-727-4000
Hazeltine Corp Commack NY..... 516-462-5100
LaPointe Industries Inc Rockville CT..... 203-872-8550
Loral Data Systems/Conic San Diego CA..... 619-279-0410
RCA Government Systems Div Cherry Hill NJ..... 609-338-3000
Rockwell Intl Corp Commercial Elects Opers
Richardson TX..... 214-996-5000
SCI Systems Inc Huntsville AL..... 205-882-4800

COMMUNICATIONS SYSTEMS—AIRPORT TRAFFIC CONTROL

AEG CORPORATION SOMERVILLE NJ..... 201-722-9800
ACI Aador Communications Inc Ottawa ON..... 613-523-9930
AEG Corporation Somerville NJ..... 201-722-9800
Aerocom Miami FL..... 305-448-6500
Air-A-Plane Corp Norfolk VA..... 804-622-5760
American Laser Systems Inc Goleta CA..... 805-967-0420
Aydin Monitor Systems Ft Washington PA..... 215-646-8100
C-COR Electronics Inc State College PA..... 814-238-2460
Computer Sciences Corp El Segundo CA..... 213-615-0310
Dowdy RFL Industries Inc Commun
Boonton NJ..... 201-334-3100
Electrodynamics Inc A Talley Indus Co
Rolling Meadows IL..... 312-259-0740
Genave Inc Indianapolis IN..... 317-262-2000
General Aviation Electronics Inc
Indianapolis IN..... 317-262-2000
Grim Corp Medford NJ..... 609-267-7950
Hazeltine Corp Commack NY..... 516-462-5100
Johnson Co E F/Radio Products Div
Waseca MN..... 507-835-6220
Johnson International E F Waseca MN..... 507-835-6220
LaPointe Industries Inc Rockville CT..... 203-872-8550
Metric Systems Corp Fort Walton Beach FL..... 904-244-9600
Microvoice Systems Inc Laguna Hills CA..... 714-859-1090
Oklahoma Aerotronics Inc Hartshorne OK..... 918-297-2560
Orbit Instrument Corp Hauppauge NY..... 516-435-8300
Paradyne Corp Largo FL..... 813-530-2000
Paso Sound Products Inc Pelham NY..... 914-738-4800
RCA Government Systems Div Cherry Hill NJ..... 609-338-3000
Rockwell Intl Corp Commercial Elects Opers
Richardson TX..... 214-996-5000
RTS Systems Inc Burbank CA..... 818-840-7111
Scientific Radio Systems Inc Rochester NY..... 716-458-3730
Teledyne Micronetics San Diego CA..... 619-583-3520
Thomson CSF Inc White Plains NY..... 914-694-4440
UNR-Rohn Peoria IL..... 309-697-4400

COMMUNICATIONS SYSTEMS—AMATEUR RADIO

See Receivers & Transmitters Listings

COMMUNICATIONS SYSTEMS—CITIZENS BAND

See Receivers & Transmitters Listings

COMMUNICATIONS SYSTEMS—DATA, LOCAL AREA NETWORK

See Local Area Network Equipment

COMMUNICATIONS SYSTEMS—DATA TERMINAL, MULTIPLEX

AEG CORPORATION SOMERVILLE NJ..... 201-722-9800
INTERNATIONAL INSTRUMENTATION INC
WESTLAKE VILLAGE CA..... 818-991-9614
OPTICAL DATA SYSTEMS INC
RICHARDSON TX..... 214-234-6400
Able Computer Costa Mesa CA..... 714-979-7030
ADC Telecommunications Minneapolis MN..... 612-835-6800
Adech Inc Honolulu HI..... 808-941-0700
Advanced Systems Concepts Inc
Pasadena CA..... 213-793-8972
AEG Corporation Somerville NJ..... 201-722-9800
Anderson Jacobson Inc San Jose CA..... 408-263-8520
Astronautics Corp of America Milwaukee WI..... 414-447-8200
ATACS Corp Oxford PA..... 215-932-3000
Avatar Technologies Hopington MA..... 617-435-6872
Bay Technical Associates Inc
Bay St Louis MS..... 601-467-8231
Central Data Corp Champaign IL..... 217-359-8010
Century Analysis Inc Pacheco CA..... 415-680-7800
Chromatics Inc Tucker GA..... 404-493-7000
Cognitronics Corp Stamford CT..... 203-327-5307
ComData Corp Morton Grove IL..... 312-470-9600
Complex Systems Inc Huntsville AL..... 205-830-4310
Computer Communications Inc Torrance CA..... 213-320-9101
Computerwise Inc Olathe KS..... 913-829-0600
Computrol Div Kidde Automated Sys Inc
Ridgefield CT..... 203-544-9371
Data General Corp Westboro MA..... 617-366-8911
Dataprobe Inc Palisades Park NJ..... 201-947-9500
Dataproducts Corp Woodland Hills CA..... 818-887-8000
Decom Systems Inc San Marcos CA..... 619-744-1002
Develcon Electronics Inc Warminster PA..... 215-443-5450
Di/A Controls Inc Boston MA..... 617-288-7700
Digital Communication Assoc Alpharetta GA..... 404-442-4000

Digital Equipment Corp Maynard MA	617-897-5111
Digital Products Inc Watertown MA	617-924-1680
Dowty RFL Industries Inc Commun	
Boonton NJ	201-334-3100
Dynatech Packet Tech Alexandria VA	703-642-9391
EO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
F Data Corp Tempe AZ	602-968-0447
Electrohome Ltd Kitchener ON	519-744-7111
Electronic Associates Inc	
West Long Branch NJ	201-229-1100
ElectroSpace Systems Inc Richardson TX	214-783-2004
E-Systems Inc Garland Div Dallas TX	214-272-0515
Excelan Inc San Jose CA	408-434-2300
FiberCom Inc Roanoke VA	703-342-6700
Foundation Instruments Inc Nepean ON	613-226-4000
Gandalf Data Inc Wheeling IL	312-541-6060
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Honeywell Inc IPC Div York PA	717-848-1151
IE Systems Inc Newmarket NH	603-659-5891
Infinet Inc North Andover MA	617-681-0600
Innovative Electronics Inc Miami FL	305-624-1644
Integrated Photomatrix Inc Mountaintop NJ	201-233-6010
Interlink Computer Sciences Inc Fremont CA	415-792-5212
International Data Sciences Inc Lincoln RI	401-333-8200
International Microwave Corp Stamford CT	203-323-5599
ITT Defense Communications Div Nutley NJ	201-284-0123
Kaufman Data Commun Inc Mt View CA	415-962-8811
Kinetic Systems Corp Lockport IL	815-838-0005
Lockheed Electronics Co Inc Plainfield NJ	201-757-1600
Memorex Corp Santa Clara CA	408-987-1000
Metric Systems Corp Fort Walton Beach FL	904-244-9600
Moseley Associates Inc Goleta CA	805-968-9621
Mulholland Inc Mountaintop NJ	201-293-6010
NCR Comten Inc St Paul MN	612-638-7777
NEC America Inc Melville NY	516-753-7000
NPC Electronics New Brighton MN	612-638-4591
Optical Data Systems Inc Richardson TX	214-234-6400
Ortel Corp Alhambra CA	818-281-3636
Paradyne Corp Largo FL	813-530-2000
Peripheral Dynamics Inc	
Plymouth Meeting PA	215-825-7090
Phoenix Microsystems Inc Huntsville AL	205-881-2173
PlessCor Optronics Inc Chatsworth CA	818-700-1233
Precision Inc Minneapolis MN	612-537-9340
Proteon Inc Natick MA	617-655-3340
Racal-Milgo Inc Sunrise	305-475-1601
Racon Inc Seattle WA	206-241-1110
RCA Government Systems Div Cherry Hill NJ	609-338-3000
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Ricoh Corp West Caldwell NJ	201-882-2000
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Scientific Technology Inc Mtn View CA	415-965-0910
Serial Lab Products Inc Marlboro MA	617-481-1684
Siecor Corp Hickory NC	704-327-5000
Simco/Ramic Corp Medford OR	503-776-9800
Spartan Technology Inc Rio Rancho NM	505-892-5300
Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
Square D Co Palatine IL	312-397-2600
Sulmar Systems Engineering Belmont MA	617-862-6358
Teleterminal Corp Greenland NH	603-431-1200
Telton Corp Kirkland WA	206-827-9626
Tienet Inc Boulder CO	303-444-2600
Timeplex Inc Woodcliff Lake NJ	201-391-1111
T M Systems Inc Bridgeport CT	203-366-4571
Whittaker Corp Tasker Sys Div	
Simi Valley CA	805-584-8200
Xerox Corp Business Sys Group	
Rochester NY	716-423-3539

Digital Equipment Corp Maynard MA	617-897-5111
Digital Products Inc Watertown MA	617-924-1680
Dowty RFL Industries Inc Commun	
Boonton NJ	201-334-3100
Dynatech Packet Tech Alexandria VA	703-642-9391
EF Data Corp Tempe AZ	602-968-0447
Electronic Associates Inc	
West Long Branch NJ	201-229-1100
ElectroSpace Systems Inc Richardson TX	214-783-2004
E-Systems Inc Garland Div Dallas TX	214-272-0515
Excelan Inc San Jose CA	408-434-2300
FiberCom Inc Roanoke VA	703-342-6700
Foundation Instruments Inc Nepean ON	613-226-4000
Gandalf Data Inc Wheeling IL	312-541-6060
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Honeywell Inc IPC Div York PA	717-848-1151
IE Systems Inc Newmarket NH	603-659-5891
Infinet Inc North Andover MA	617-681-0600
Innovative Electronics Inc Miami FL	305-624-1644
Integrated Photomatrix Inc Mountaintop NJ	201-233-6010
Interlink Computer Sciences Inc Fremont CA	415-792-5212
International Data Sciences Inc Lincoln RI	401-333-8200
International Microwave Corp Stamford CT	203-323-5599
ITT Defense Communications Div Nutley NJ	201-284-0123
Kaufman Data Commun Inc Mt View CA	415-962-8811
Kinetic Systems Corp Lockport IL	815-838-0005
Lockheed Electronics Co Inc Plainfield NJ	201-757-1600
Memorex Corp Santa Clara CA	408-987-1000
Metric Systems Corp Fort Walton Beach FL	904-244-9600
Moseley Associates Inc Goleta CA	805-968-9621
Mulholland Inc Mountaintop NJ	201-293-6010
NCR Comten Inc St Paul MN	612-638-7777
NEC America Inc Melville NY	516-753-7000
NPC Electronics New Brighton MN	612-638-4591
Optical Data Systems Inc Richardson TX	214-234-6400
Ortel Corp Alhambra CA	818-281-3636
Paradyne Corp Largo FL	813-530-2000
Peripheral Dynamics Inc	
Plymouth Meeting PA	215-825-7090
Phoenix Microsystems Inc Huntsville AL	205-881-2173
PlessCor Optronics Inc Chatsworth CA	818-700-1233
Precision Inc Minneapolis MN	612-537-9340
Proteon Inc Natick MA	617-655-3340
Racal-Milgo Inc Sunrise	305-475-1601
Racon Inc Seattle WA	206-241-1110
RCA Government Systems Div Cherry Hill NJ	609-338-3000
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Ricoh Corp West Caldwell NJ	201-882-2000
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Scientific Technology Inc Mtn View CA	415-965-0910
Serial Lab Products Inc Marlboro MA	617-481-1684
Siecor Corp Hickory NC	704-327-5000
Simco/Ramic Corp Medford OR	503-776-9800
Spartan Technology Inc Rio Rancho NM	505-892-5300
Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
Square D Co Palatine IL	312-397-2600
Sulmar Systems Engineering Belmont MA	617-862-6358
Teleterminal Corp Greenland NH	603-431-1200
Telton Corp Kirkland WA	206-827-9626
Tienet Inc Boulder CO	303-444-2600
Timeplex Inc Woodcliff Lake NJ	201-391-1111
T M Systems Inc Bridgeport CT	203-366-4571
Whittaker Corp Tasker Sys Div	
Simi Valley CA	805-584-8200
Xerox Corp Business Sys Group	
Rochester NY	716-423-3539

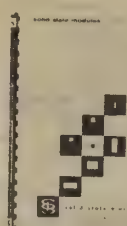
COMMUNICATIONS SYSTEMS—FACSIMILE

See Facsimile Listings

COMMUNICATIONS SYSTEMS—FLIGHT TEST & TELEMETRY

AEG CORPORATION SOMERVILLE NJ	201-722-9800
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
ADV PG 105	
AEG Corporation Somerville NJ	201-722-9800
Aydin Monitor Systems Ft Washington PA	215-646-8100
Aydin Vector Div Newtown PA	215-968-4271
Bail Aerospace Systems Div Boulder CO	303-939-4000
Base Ten Systems Inc Trenton NJ	609-586-7010
Betatronics Inc Lincolnwood IL	312-676-1747
B F Electronics Solana Beach CA	619-755-1881
Computer Systems Corp El Segundo CA	213-615-0311
Consell Cheshire CT	203-272-5750
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Datum Inc Timing/AACOM Divs Anaheim CA	714-533-6333
Decom Systems Inc San Marcos CA	619-744-1002
Dewey Electronics Corp Oakland NJ	201-337-4700
ElectroSpace Systems Inc Richardson TX	214-783-2004
En Instrumentation Inc Van Nuys CA	818-781-2185
Fairchild Weston Systems Inc Sarasota FL	813-371-0811
Fifth Dimension Inc Trenton NJ	609-393-8350
General Aviation Electronics Inc	
Indianapolis IN	317-262-2000
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Interface Technology Glendora CA	818-914-2741
Loral Data Systems/Conic San Diego CA	619-279-0411
Metraflex Corp Frederick MD	301-695-8050
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Scientific-Atlanta Inc Atlanta GA	404-441-4000
SCI Systems Inc Huntsville AL	205-882-4800
Solid State Electronics Corp Northridge CA	818-993-8257
Sonex Corp Philadelphia PA	215-533-4900
Watkins-Johnson Co Palo Alto CA	415-493-4141
Whittaker Corp Tasker Sys Div	
Simi Valley CA	805-584-8200

NEW SOLID STATE MODULE CATALOG



- Choppers, Analog Switches
- Modulators, Demodulators
- Relays
- Transistors, Diodes, Semiconductors
- Telemetering
- RF Modems
- FM Transmitters and Receivers
- Voltage Controlled Oscillators
- FM Discriminators
- Voltage-to-Frequency Converters
- Frequency-to-Voltage Converters
- Frequency Counters (Digital)
- Over-Under Frequency Detectors
- Frequency Meters
- Amplifiers
- Oscillators, Pulse Generators
- Signal and Frequency Mixers
- Phase Detectors
- DC Signal Isolators

WRITE OR PHONE FOR BULLETINS

SOLID STATE ELECTRONICS CORP.

18646 PARTHENIA STREET,

NORTHBRIDGE, CALIFORNIA 91324

(818) 993-8257

COMMUNICATIONS SYSTEMS—FREQUENCY SHIFT (EXCEPT TELEMETRY, TELEPRINTER & TELETYPEWRITER)

SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
ADV PG 105	
Betatronics Inc Lincolnwood IL	312-676-1747
Bristol Babcock Inc Waterbury CT	203-575-3000
Chase Electronics Portland OR	503-297-6356
ComData Corp Morton Grove IL	312-470-9600
Communication Associates Inc	
Huntington Station NY	516-271-0800
Computrol Div Kilde Automated Sys Inc	
Ridgfield CT	203-544-9371
Cubic Corp San Diego CA	619-277-6780
Dataprobe Inc Palisades Park NJ	201-947-9500
Da-Tel Research Co Inc Montrose CO	303-249-6129
Dowty RFL Industries Inc Commun	
Boonton NJ	201-334-3100
ElectroSpace Systems Inc Richardson TX	214-783-2004
Glenayre Electronics Ltd Vancouver BC	604-293-1611
Grim Corp Medford NJ	609-267-7950
Infinet Inc North Andover MA	617-681-0600
Lake Systems Corp Newton MA	617-244-6881
LSI Avionic Sys Corp Sub Lear Siegler Inc	
Florham Park NJ	201-822-1300
RCA Government Systems Div Cherry Hill NJ	609-338-3000
Seaboard Electronics Div Nealar Corp	
New Rochelle NY	914-235-8073
Signatron Inc Lexington MA	617-861-1500
Solid State Electronics Corp Northridge CA	818-993-8257
Sonex Corp Philadelphia PA	215-533-4900
Telton Corp Kirkland WA	206-827-9626
Thomson CSF Inc White Plains NY	914-694-4450
Timeplex Inc Woodcliff Lake NJ	201-391-1111
T M Systems Inc Bridgeport CT	203-366-4571

COMMUNICATIONS SYSTEMS—LAND MOBILE NETWORKS

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
American Laser Systems Inc Goleta CA	805-967-0423
American Microsignal Corp Stanton CA	714-761-1222
American Satellite Co Rockville MD	301-251-8333
Andrew Corp Orlando Park IL	312-349-3300
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Applied Communications Div Amstar Tech Prods Inc	
Frederick MD	301-694-5300

Astronautics Corp of America Milwaukee WI.....	414-447-8200
ATACS Corp Oxford PA.....	215-932-3000
Atlantic Research Corp Alexandria VA.....	703-642-4000
Chase Electronics Portland OR.....	503-297-6356
Communication Associates Inc Huntington Station NY.....	516-271-0800
Decibel Products Inc Dallas TX.....	214-631-0310
DLL Com Con Inc Ithaca NY.....	607-257-0333
ElectroSpace Systems Inc Richardson TX.....	214-783-2004
E-Systems Inc Garland Div Dallas TX.....	214-272-0515
Gandalf Data Inc Wheeling IL.....	312-541-6060
Genave Inc Indianapolis IN.....	317-262-2000
General Aviation Electronics Inc Indianapolis IN.....	317-262-2000
General Elec Co Mobile Communications Div Lynchburg VA.....	804-528-7000
Glenayre Electronics Ltd Vancouver BC.....	604-293-1611
Harris Corp Govt Sys Sector Melbourne FL.....	305-727-4000
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
ITT Defense Communications Div Nutley NJ.....	201-284-0123
Johnson Co E F/Radio Products Div Waseca MN.....	507-835-6222
Johnson International E F Waseca MN.....	507-835-6222
Kel Corp Melrose MA.....	617-662-2222
Lake Systems Corp Newton MA.....	617-244-6881
LogiMetrics Inc Plainview NY.....	516-349-1700
Mitel Corp Semiconductor Div Kanata ON.....	613-592-5630
Mobil Electronics Inc Anderson IN.....	317-642-7976
Moseley Associates Inc Goleta CA.....	805-968-9621
NEC America Inc Melville NY.....	516-753-7000
Regency Electronics Inc Indianapolis IN.....	317-545-4281
Repro Inc Orlando FL.....	305-843-8484
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Sinclair Radio Labs Inc Tonawanda NY.....	716-874-3682
Swintek Enterprises Campbell CA.....	408-378-8091
SYT Corp El Paso TX.....	915-593-1234
Thomson CSF Inc White Plains NY.....	914-694-4450
UNR-Rohn Peoria IL.....	309-697-4400

COMMUNICATIONS SYSTEMS—MESSAGE SWITCHING CENTERS

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Amadahl Communications Systems Div Richardson TX.....	214-699-9500
Anderson Jacobson Inc San Jose CA.....	408-263-8520
Applied Research Inc Plainview NY.....	516-349-9200
ATACS Corp Oxford PA.....	215-932-3000
Atlantic Research Corp Alexandria VA.....	703-642-4000
Centigram Corp San Jose CA.....	408-734-3222
Computer Communications Inc Torrance CA.....	213-320-9101
Computer Sciences Corp El Segundo CA.....	213-615-0311
Data General Corp Westboro MA.....	617-366-8911
Digital Communication Assoc Alpharetta GA.....	404-442-4000
ElectroSpace Systems Inc Richardson TX.....	214-783-2004
Epsilon-Lambda Electronics Corp Geneva IL.....	312-232-9611
Eriasson Communications Garden Grove CA.....	714-895-3962
E-Systems Inc Garland Div Dallas TX.....	214-272-0515
FiberCom Inc Roanoke VA.....	703-342-6700
Gandalf Data Inc Wheeling IL.....	312-541-6060
Hughes Aircraft Co Microelectronic Sys Div Irvine CA.....	714-752-3800
Information Transfer Industrial Inc Holcomb NY.....	716-657-7074
International Data Sciences Inc Lincoln RI.....	401-333-6200
ITT Defense Communications Div Nutley NJ.....	201-284-0123
Lake Systems Corp Newton MA.....	617-244-6881
Microperipheral Corp Redmond WA.....	206-881-7544
Muirhead Inc Mountaineer NJ.....	201-233-6010
NCR Comten Inc St Paul MN.....	612-638-7777
NEC America Inc Melville NY.....	516-753-7000
Paradyne Corp Largo FL.....	813-530-2000
Racon Inc Seattle WA.....	206-241-1110
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Rolm Corp—Mil-Spec Computers San Jose CA.....	408-942-8000
Signatron Inc Lexington MA.....	617-861-1500
Sinco/Ramic Corp Medford OR.....	503-776-9800
Systems Technology Assoc Washington DC.....	703-471-8000
Tienet Inc Boulder CO.....	303-444-2600
UNR-Rohn Peoria IL.....	309-697-4400

COMMUNICATIONS SYSTEMS—MICROWAVE POINT-TO-POINT See Microwave Systems

COMMUNICATIONS SYSTEMS—MILITARY SPECIAL CODE SYSTEMS (INCL. RANDOM ACCESS & SCRAMBLED SPEECH)

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
ILC DATA DEVICE CORP BOHEMIA NY.....	516-567-5600
AEG Corporation Somerville NJ.....	201-722-9800
American Satellite Co Rockville MD.....	301-251-8333
ATACS Corp Oxford PA.....	215-932-3000
Comstron Corp Freeport NY.....	516-546-9700
Controlonics Corp Westford MA.....	617-692-3000
Cubic Corp San Diego CA.....	619-277-6780
ElectroSpace Systems Inc Richardson TX.....	214-783-2004
E-Systems Inc Garland Div Dallas TX.....	214-272-0515

Fairchild Weston Systems Inc Syosset NY.....	516-494-2200
Foundation Instruments Inc Nepean ON.....	613-226-4000
Harris Corp Govt Sys Sector Melbourne FL.....	305-727-4000
Hazeltine Corp Commack NY.....	516-462-5100
ILC Data Device Corp Bohemia NY.....	516-567-5600
ITT Defense Communications Div Nutley NJ.....	201-284-0123
Locus Inc State College PA.....	814-466-6275
Miller Communications Systems Ltd Kanata ON.....	613-592-3020
New Wave Instruments San Jose CA.....	408-629-3105
NPC Electronics New Brighton MN.....	612-633-4591
Paradyne Corp Largo FL.....	813-530-2000
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
SCI Systems Inc Huntsville AL.....	205-882-4800
Signatron Inc Lexington MA.....	617-861-1500
Spivey Inc James S Bethesda MD.....	301-656-6028
Telectro Systems Corp Corona NY.....	212-651-8900
Thomson CSF Inc White Plains NY.....	914-694-4450
T M Systems Inc Bridgeport CT.....	203-366-4571
Whittaker Corp Tasker Sys Div Simi Valley CA.....	805-584-8200

COMMUNICATIONS SYSTEMS—MULTIPLEX RADIO CARRIER NETWORKS

See Also Receivers & Transmitters Listings

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
American Satellite Co Rockville MD.....	301-251-8333
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
ATACS Corp Oxford PA.....	215-932-3000
Avantek Inc Santa Clara CA.....	408-496-6710
BR Communications Sunnyvale CA.....	408-734-1600
Cardion Electronics Communications Holtville NY.....	516-289-6200
Cardion Electronics Div Gen Signal Corp Woodbury NY.....	516-921-7300
ElectroSpace Systems Inc Richardson TX.....	214-783-2004
Emulex Corp Costa Mesa CA.....	714-662-5600
Eon Instrumentation Inc Van Nuys CA.....	818-781-2185
Harris Corp Farinon Div San Carlos CA.....	415-594-3000
Harris Corp Govt Sys Sector Melbourne FL.....	305-727-4000
Karkar Electronics Inc San Francisco CA.....	415-552-1247
Loral TerraCom San Diego CA.....	619-278-4100
Moseley Associates Inc Goleta CA.....	805-968-9621
NEC America Inc Melville NY.....	516-753-7000
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
SCI Systems Inc Huntsville AL.....	205-882-4800
Sonex Corp Philadelphia PA.....	215-533-4900
Sprengnether Instruments Inc St Louis MO.....	314-535-1682
Telectro Systems Corp Corona NY.....	212-651-8900

COMMUNICATIONS SYSTEMS—MULTIPLEX WIRELINE CARRIER NETWORKS

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
ENVIROMARINE SYSTEMS INC	
LAUREL MD.....	301-598-8833
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA.....	818-993-8257
ADV PG 105	
AEG Corporation Somerville NJ.....	201-722-9800
American Science & Engineering Inc Cambridge MA.....	617-868-1600
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
ATACS Corp Oxford PA.....	215-932-3000
Autocore Industries Inc St Paul MN.....	612-642-1784
Avatar Technologies Hopkinton MA.....	617-435-6872
Bristol Babcock Inc Waterbury CT.....	203-575-3000
Cardion Electronics Div Gen Signal Corp Woodbury NY.....	516-921-7300
Cognitronics Corp Stamford CT.....	203-327-5307
ComData Corp Morton Grove IL.....	312-470-9600
Complex Systems Inc Huntsville AL.....	205-830-4310
Computrol Div Kidde Automated Sys Inc Ridgfield CT.....	203-544-9371
Data-Control Systems A CompuDyne Co Rockville MD.....	301-279-8798
Decibel Products Inc Dallas TX.....	214-631-0310
Digital Communication Assoc Alpharetta GA.....	404-442-4000
Dowty RFL Industries Inc Commun Boonton NJ.....	201-334-3100
Dynatech Packet Tech Alexandria VA.....	703-642-9391
ElectroSpace Systems Inc Richardson TX.....	214-783-2004
Enviromarine Systems Inc Laurel MD.....	301-598-8833
Eriasson Communications Garden Grove CA.....	714-895-3962
FiberCom Inc Roanoke VA.....	703-342-6700
Futronics Inc Sunnyvale CA.....	408-735-1122
Gandalf Data Inc Wheeling IL.....	312-541-6060
General Electric Co Ordnance Sys Div Pittsfield MA.....	413-494-3634
Harris Corp Govt Sys Sector Melbourne FL.....	305-727-4000
Hughes Aircraft Co Microelectronic Sys Div Irvine CA.....	714-752-3800
Infinet Inc North Andover MA.....	617-681-0600
Loral TerraCom San Diego CA.....	619-278-4100
Paradyne Corp Largo FL.....	813-530-2000
Raychem Corp Menlo Park CA.....	415-361-3333
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Solid State Electronics Corp Northridge CA.....	818-993-8257
Sonex Corp Philadelphia PA.....	215-533-4900
Sparton Technology Inc Rio Rancho NM.....	505-892-5300
Sprengnether Instruments Inc St Louis MO.....	314-535-1682
Telectro Systems Corp Corona NY.....	212-651-8900
Tele Measurements Inc Clifton NJ.....	201-473-8822
Tienet Inc Boulder CO.....	303-444-2600

Timeplex Inc Woodcliff Lake NJ.....	201-391-1111
Veritron Div Keene Corp Washington DC.....	202-722-8666

COMMUNICATIONS SYSTEMS—OPTICAL See Optoelectronic Systems

COMMUNICATIONS SYSTEMS—RADIO RELAY

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Andrew Corp Orland Park IL.....	312-349-3333
ATACS Corp Oxford PA.....	215-932-3000
Avantek Inc Santa Clara CA.....	408-496-6710
Cardion Electronics Communications Holtville NY.....	516-289-6200
Cardion Electronics Div Gen Signal Corp Woodbury NY.....	516-921-7300
Decibel Products Inc Dallas TX.....	214-631-0310
Gabriel Electronics Inc Scarborough ME.....	207-883-5151
Harris Corp Govt Sys Sector Melbourne FL.....	305-727-4000
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
ITT Defense Communications Div Nutley NJ.....	201-284-0123
Johnson Co E F/Radio Products Div Waseca MN.....	507-835-6222
Loral TerraCom San Diego CA.....	619-278-4100
Moseley Associates Inc Goleta CA.....	805-968-9621
RHG Electronics Lab Inc Deer Park NY.....	516-242-1111
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Seaboard Electronics Div Nealar Corp New Rochelle NY.....	914-235-8000
Signatron Inc Lexington MA.....	617-861-1500
SYT Corp El Paso TX.....	915-593-1234
Tele Measurements Inc Clifton NJ.....	201-473-8822
Thomson CSF Inc White Plains NY.....	914-694-4450
TRW Microwave Sunnyvale CA.....	408-732-0800
UNR-Rohn Peoria IL.....	309-697-4400

COMMUNICATIONS SYSTEMS—RAILROAD (INCL. RAILROAD SYSTEMS CONTROL)

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Atlantic Research Corp Alexandria VA.....	703-642-4000
Decibel Products Inc Dallas TX.....	214-631-0310
Dowty RFL Industries Inc Commun Boonton NJ.....	201-334-3100
Glenayre Electronics Ltd Vancouver BC.....	604-293-1611
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
International Microwave Corp Stamford CT.....	203-323-5555
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Safetran Sys Corp Electronic Div Cucamonga CA.....	714-987-4600

COMMUNICATIONS SYSTEMS—SELECTIVE CALLING RADIO

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
American Microsignal Corp Stanton CA.....	714-761-1122
Communication Associates Inc Huntington Station NY.....	516-271-0800
Comstron Corp Freeport NY.....	516-546-9700
Genave Inc Indianapolis IN.....	317-262-2000
General Aviation Electronics Inc Indianapolis IN.....	317-262-2000
General Elec Co Mobile Communications Div Lynchburg VA.....	804-528-7000
Harris Corp Govt Sys Sector Melbourne FL.....	305-727-4000
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Johnson Co E F/Radio Products Div Waseca MN.....	507-835-6222
Kel Corp Melrose MA.....	617-662-2222
Lear Siegler Inc Santa Monica CA.....	213-452-5400
Mobil Electronics Inc Anderson IN.....	317-642-7976
Regency Electronics Inc Indianapolis IN.....	317-545-4281
Ring Group of North America Great Neck NY.....	516-487-0200
Safetran Sys Corp Electronic Div Cucamonga CA.....	714-987-4600
Scientific Radio Systems Inc Rochester NY.....	716-458-3377
SYT Corp El Paso TX.....	915-593-1234

COMMUNICATIONS SYSTEMS—SHIP-TO-SHORE NETWORKS

See Also Receivers & Transmitters Listings

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
ACI Audio Communications Inc Ottawa ON.....	613-523-9991
AEG Corporation Somerville NJ.....	201-722-9800
Alden Electronics Inc Westboro MA.....	617-366-8888
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Applied Communications Div Amstar Tech Prods Inc Frederick MD.....	301-694-5300
Communication Associates Inc Huntington Station NY.....	516-271-0800

Computer Sciences Corp El Segundo CA	213-615-0311
Delta Electronics Inc Alexandria VA	703-354-3350
Electro-Nav Inc Elizabeth NJ	201-527-0099
Runo USA Inc So San Francisco CA	415-873-9393
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Gain Div Telex Commun Inc	
Minneapolis MN	612-884-4051
Elect Inc Santa Clara CA	408-727-0500
John Communications Inc Westbury NY	516-222-2221
Agency Electronics Inc Indianapolis IN	317-445-4281
Scientific-Atlanta Inc Atlanta GA	404-541-4000
Scientific Radio Systems Inc Rochester NY	716-458-3733
erry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
lex Communications Inc Minneapolis MN	612-884-4051

COMMUNICATIONS SYSTEMS—SINGLE SIDE BAND (COMPLETE SYSTEMS)

See Also Receivers & Transmitters Listings

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
ed Corp Bendix Commun Div	
Baltimore MD	301-583-4000
merican Satellite Co Rockville MD	301-251-8333
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Applied Communications Div Amstar Tech Prods Inc	
Frederick MD	301-694-5300
Electronics Solana Beach CA	619-755-1881
ilifornia Microwave Inc Sunnyvale CA	408-732-4000
ommunication Associates Inc	
Huntington Station NY	516-271-0800
umstern Corp Freeport NY	516-546-9700
wy RFL Industries Inc Commun	
Bloomington NJ	201-334-3100
ctrac Inc Anaheim CA	714-879-6021
ctro-Nav Inc Elizabeth NJ	201-527-0099
runo USA Inc So San Francisco CA	415-873-9393
ave Inc Indianapolis IN	317-262-2000
ris Corp Govt Sys Sector Melbourne FL	305-727-4000
ris Corp RF Commun Grp Rochester NY	716-244-5830
ath Co Benton Harbor MI	616-982-3200
ech Inc Santa Clara CA	408-727-0500
hn Communications Inc Westbury NY	516-222-2221
rk Electronics Inc San Francisco CA	415-552-1247
ainte Industries Inc Rockville CT	203-872-8581
ler Communications Systems Ltd	
Kanata ON	613-952-3020
A Government Systems Div Cherry Hill NJ	609-338-3000
ckwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Scientific Radio Systems Inc Rochester NY	716-458-3733
ner Communications Inc	
Sancho Cucamonga CA	714-987-4624
n-Tec Inc Sevierville TN	615-453-7172
on CSF Inc White Plains NY	914-694-4450

COMMUNICATIONS SYSTEMS—SPACE SATELLITE RECEIVERS, TRANSPONDERS & TRANSMITTERS

AEG CORPORATION SOMERVILLE NJ	201-722-9800
G Corporation Somerville NJ	201-722-9800
en Electronics Inc Westboro MA	617-366-8851
ed Corp Bendix Commun Div	
Baltimore MD	301-583-4000
merican Laser Systems Inc Goleta CA	805-967-0423
merican Satellite Co Rockville MD	301-251-8333
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
plied Research Inc Plainview NY	516-349-9200
ante Inc Santa Clara CA	408-496-6710
ilifornia Microwave Inc Sunnyvale CA	408-732-4000
mputer Sciences Corp El Segundo CA	213-615-0311
ctrac Inc Anaheim CA	714-879-6021
ctro-Nav Inc Elizabeth NJ	201-527-0099
ct Engineering Inc Boulder CO	303-447-8750
edback Inc Berkeley Heights NJ	201-464-5181
ave Inc Indianapolis IN	317-262-2000
ederal Aviation Electronics Inc	
Indianapolis IN	317-262-2000
ris Corp Govt Sys Sector Melbourne FL	305-727-4000
ris Corp RF Commun Grp Rochester NY	716-244-5830
zeltine Corp Commack NY	516-462-5100
neywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
Defense Communications Div Nutley NJ	201-284-0123
R Communications Inc Hauppauge NY	516-273-7111
al Data Systems/Conic San Diego CA	619-279-0411
C America Inc Melville NY	516-753-7000
el Corp Alhambra CA	818-281-3636
A Government Systems Div Cherry Hill NJ	609-338-3000
entific-Atlanta Inc Atlanta GA	404-541-4000
atron Inc Lexington MA	617-861-1500
erry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
W Microwave Sunnyvale CA	408-732-0880
tkins-Johnson Co Palo Alto CA	415-493-4141
Whittaker Corp Tasker Sys Div	
Simi Valley CA	805-584-8200

COMMUNICATIONS SYSTEMS—SPACE SYSTEMS, GROUND OR SHIP

AEG CORPORATION SOMERVILLE NJ	201-722-9800
IL MACARR DIV BROOKLYN NY	718-857-2400
TICAL DATA SYSTEMS INC	
RICHARDSON TX	214-234-6400
Audor Communications Inc Ottawa ON	613-523-9933
ech Inc Honolulu HI	808-941-0708

AEG Corporation Somerville NJ	201-722-9800
American Satellite Co Rockville MD	301-251-8333
Andrew Corp Orland Park IL	312-349-3300
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Avantek Inc Santa Clara CA	408-496-6710
Chase Electronics Portland OR	503-297-6356
CML Macarr Div Brooklyn NY	718-857-2400
Computer Sciences Corp El Segundo CA	213-615-0311
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Decom Systems Inc San Marcos CA	619-744-1002
Electrac Inc Anaheim CA	714-879-6021
Electro-Nav Inc Elizabeth NJ	201-527-0099
Episco Inc Westwood MA	617-329-1500
E-Systems Inc Garland Div Dallas TX	214-272-0515
Foundation Instruments Inc Nepean ON	613-226-4000
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
ITT Defense Communications Div Nutley NJ	201-284-0123
LaPointe Industries Inc Rockville CT	203-872-8581
Locus Inc State College PA	814-466-6275
LogiMetrics Inc Plainview NY	516-349-1700
LSI Avionic Sys Corp Sub Lear Siegler Inc	
Florham Park NJ	201-822-1300
Miller Communications Systems Ltd	
Kanata ON	613-592-3020
NEC America Inc Melville NY	516-753-7000
Ocean Technology Inc Burbank CA	213-849-7111
Optical Data Systems Inc Richardson TX	214-234-6400
Ortel Corp Alhambra CA	818-281-3636
RCA Government Systems Div Cherry Hill NJ	609-338-3000
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Scientific-Atlanta Inc Atlanta GA	404-541-4000
Signatron Inc Lexington MA	617-861-1500
Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
Teledyne Micronetics San Diego CA	619-583-3525
TIW Systems Inc Sunnyvale CA	408-734-3900
Watkins-Johnson Co Palo Alto CA	415-493-4141
Whittaker Corp Tasker Sys Div	
Simi Valley CA	805-584-8200

COMMUNICATIONS SYSTEMS—TACTICAL NAVIGATION

See Aircraft Guidance & Navigation

Systems—Tactical Radio

COMMUNICATIONS SYSTEMS—TELEMETRY, INDUSTRIAL (COMPLETE SYSTEMS)

See Also Receivers & Transmitters Listings

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ENVIROMARINE SYSTEMS INC	
LAUREL MD	301-598-8833
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
ADV PG 105	
TELEDYNE GEOTECH GARLAND TX	214-271-2561
Acromag Inc Wixom MI	313-624-1541
AEG Corporation Somerville NJ	201-722-9800
Air-A-Plane Corp Norfolk VA	804-622-5761
American Laser Systems Inc Goleta CA	805-967-0423
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Autocon Industries Inc St Paul MN	612-642-1784
Aydin Monitor Systems Ft Washington PA	215-646-8100
Base Ten Systems Inc Trenton NJ	609-586-7010
Betatronics Inc Lincolnwood IL	312-676-1747
B F Electronics Solana Beach CA	619-755-1881
Bristol Babcock Inc Waterbury CT	203-575-3000
Chase Electronics Portland OR	503-297-6356
ComData Corp Morton Grove IL	312-470-9600
Communifronics Ltd Bohemia NY	516-567-8320
Compu-Mech Inc Toledo OH	419-535-6702
Computer Sciences Corp El Segundo CA	213-615-0311
Conversational Voice Technologies Corp	
Gurnee IL	312-249-5560
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Dataprobe Inc Palisades Park NJ	201-947-9500
Da-Tech Research Co Inc Montrose CO	303-249-6129
Decom Systems Inc San Marcos CA	619-744-1002
Dowry RFL Industries Inc Commun	
Bloomington NJ	201-334-3100
Electrac Inc Anaheim CA	714-879-6021
Enviro-marine Systems Inc Laurel MD	301-598-8833
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Ertac Engineering Inc Boulder CO	303-447-8750
Fairchild Weston Systems Inc Sarasota FL	813-371-0811
Fifth Dimension Inc Trenton NJ	609-393-8350
Foundation Instruments Inc Nepean ON	613-226-4000
The Foxboro Co Foxboro MA	617-543-8750
Futronics Inc Sunnyvale CA	408-735-1122
Gai-Tronics Corp Reading PA	215-777-1374
Glenayre Electronics Ltd Vancouver BC	604-293-1611
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Kinetic Systems Corp Lockport IL	516-838-0005
Loral Data Systems/Conic San Diego CA	619-279-0411
Meltrplex Corp Frederick MD	301-695-8050
Miller Communications Systems Ltd	
Kanata ON	613-592-3020
Moseley Associates Inc Goleta CA	805-968-9621
North Hills Electronics Inc Glen Cove NY	516-671-5700
Repro Inc Orlando FL	305-843-8484
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
SAS Systems Inc Norcross GA	404-448-4190
Scientific-Atlanta Inc Atlanta GA	404-541-4000

SCI Systems Inc Huntsville AL	205-882-4800
Seaboard Electronics Div Nealor Corp	
New Rochelle NY	914-235-8073
Sigma Instruments Inc Fisher Pierce Div	
Braintree MA	617-843-5000
Solid State Electronics Corp Northridge CA	818-993-8257
Sonex Corp Philadelphia PA	215-533-4900
Sprengnether Instruments Inc St Louis MO	314-535-1682
Tejas Controls Inc Houston TX	713-956-4800
Teletro Systems Corp Corona NY	212-651-8900
Teledyne Geotech Garland TX	214-271-2561
Thomson CSF Inc White Plains NY	914-694-4450
TIW Systems Inc Sunnyvale CA	408-734-3900
UFI Morro Bay CA	805-772-1203
United Teletelcom Electronics Inc	
Asbury Park NJ	201-922-1000
West Coast Research Corp Los Angeles CA	213-478-8833

COMMUNICATIONS SYSTEMS—TELEMETRY, METEOROLOGY (EXCEPT RADARSONDES & RADIOSONDES)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
ADV PG 105	
TELEDYNE GEOTECH GARLAND TX	214-271-2561
AEG Corporation Somerville NJ	201-722-9800
Air-A-Plane Corp Norfolk VA	804-622-5761
Alden Electronics Inc Westboro MA	617-366-8851
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Aydin Monitor Systems Ft Washington PA	215-646-8100
Ball Aerospace Systems Div Boulder CO	303-939-4000
Base Ten Systems Inc Trenton NJ	609-586-7010
Belfort Instrument Co Baltimore MD	301-342-2626
Betatronics Inc Lincolnwood IL	312-676-1747
B F Electronics Solana Beach CA	619-755-1881
Bristol Babcock Inc Waterbury CT	203-575-3000
Climatronics Corp Bohemia NY	516-567-3000
Decom Systems Inc San Marcos CA	619-744-1002
Electro-Nav Inc Elizabeth NJ	201-527-0099
Ertac Engineering Inc Boulder CO	303-447-8750
Fairchild Weston Systems Inc Sarasota FL	813-371-0811
Feedback Inc Berkeley Heights NJ	201-464-5181
Glenayre Electronics Ltd Vancouver BC	604-293-1611
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Hermes Electronics Ltd Dartmouth NS	902-466-7491
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
Leupold & Stevens Inc Beaverton OR	503-646-9171
Loral Data Systems/Conic San Diego CA	619-279-0411
Scientific-Atlanta Inc Atlanta GA	404-541-4000
Solid State Electronics Corp Northridge CA	818-993-8257
Sonex Corp Philadelphia PA	215-533-4900
Teledyne Geotech Garland TX	214-271-2561
Thomson CSF Inc White Plains NY	914-694-4450
TIW Systems Inc Sunnyvale CA	408-734-3900

COMMUNICATIONS SYSTEMS—TELEMETRY, SCIENTIFIC & MEDICAL (EXCEPT METEOROLOGY)

SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
ADV PG 105	
American Laser Systems Inc Goleta CA	805-967-0423
Base Ten Systems Inc Trenton NJ	609-586-7010
Betatronics Inc Lincolnwood IL	312-676-1747
Chase Electronics Portland OR	503-297-6356
Communifronics Ltd Bohemia NY	516-567-8320
Compu-Mech Inc Toledo OH	419-535-6702
Consell Cheshire CT	203-272-5750
Datum Inc Timing/AACOM Divs Anaheim CA	714-533-6333
Digital Technology Associates LaVerne CA	714-596-4145
Fairchild Weston Systems Inc Sarasota FL	813-371-0811
Fifth Dimension Inc Trenton NJ	609-393-8350
Foundation Instruments Inc Nepean ON	613-226-4000
Futronics Inc Sunnyvale CA	408-735-1122
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
ICS Electronics Corp San Jose CA	408-263-4844
Interface Engineering Inc Stoughton MA	617-344-7383
Kel Corp Melrose MA	617-662-2222
Kinetic Systems Corp Lockport IL	516-838-0005
Pacific Communications Inc Santa Ana CA	714-546-0147
Ramsay Engineering Co Anaheim CA	714-524-8855
Serial Lab Products Inc Marlboro MA	617-481-1684
Solid State Electronics Corp Northridge CA	818-993-8257
Sonex Corp Philadelphia PA	215-533-4900
Sprengnether Instruments Inc St Louis MO	314-535-1682
Teletro Systems Corp Corona NY	212-651-8900
TIW Systems Inc Sunnyvale CA	408-734-3900
UFI Morro Bay CA	805-772-1203
West Coast Research Corp Los Angeles CA	213-478-8833

COMMUNICATIONS SYSTEMS—TELEPRINTER & TELETYPEWRITER NETWORKS

A C D Corp Dayton OH	513-222-2600
American Laser Systems Inc Goleta CA	805-967-0423
Anderson Jacobson Inc San Jose CA	408-263-8520
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
ATACS Corp Oxford PA	215-932-3000
Avator Technologies Hopington MA	617-435-6872

BR Communications Sunnyvale CA	408-734-1600
Chase Electronics Portland OR	503-297-6356
ComData Corp Morton Grove IL	312-470-9600
Communication Associates Inc	
Huntington Station NY	516-271-0800
Computewise Inc Olathe KS	913-829-0600
Com/Tech Systems Inc New York NY	212-594-5377
Dataprobe Inc Palisades Park NJ	201-947-9500
DI/An Controls Inc Boston MA	617-288-7700
Digitech Industries Inc Ridgefield CT	203-438-3731
Dowty RFL Industries Inc Commun	
Boonton NJ	201-334-3100
Dynatech Packet Tech Alexandria VA	703-642-9391
Enterprise Systems Corp Dover NH	603-742-7363
HAL Communications Corp Urbana IL	217-367-7373
Harris Corp RF Commun Grp Rochester NY	716-244-5830
NCR Comten Inc St Paul MN	612-638-7777
Ocean Technology Inc Burbank CA	213-849-7111
RCA Service Co-Automated Business Commun Svcs	
Cherry Hill NJ	609-338-4343
Sakata USA Corp Elk Grove Village IL	312-593-3211
SCI Systems Inc Huntsville AL	205-882-4800
Sonex Corp Philadelphia PA	215-533-4900
Teletype Technology Inc Greenlawn NY	516-423-3232
Tele Measurements Inc Clifton NJ	201-473-8822
Tietnet Inc Boulder CO	303-444-2600
Timeplex Inc Woodcliff Lake NJ	201-391-1111
T M Systems Inc Bridgeport CT	203-366-4571
TTS (Telecom Terminal Sys) Inglewood CA	213-641-8111
Vector Associates Inc Yaphank NY	516-924-0100

COMMUNICATIONS SYSTEMS—TONE TELEGRAPH

ENVIROMARINE SYSTEMS INC	301-598-8833
LAUREL MD	
Aptek Microsystems Deerfield Beach FL	305-421-8450
Betatronics Inc Lincolnwood IL	312-676-1747
ComData Corp Morton Grove IL	312-470-9600
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Da-Tel Research Co Inc Montrose CO	303-249-6129
Dowty RFL Industries Inc Commun	
Boonton NJ	201-334-3100
Enviromarine Systems Inc Laurel MD	301-598-8833
Grim Corp Medford NJ	609-267-7950
HAL Communications Corp Urbana IL	217-367-7373
Microperipheral Corp Redmond WA	206-881-7544
Systems Technology Assoc Washington DC	703-471-8000
T M Systems Inc Bridgeport CT	203-366-4571

COMMUNICATIONS SYSTEMS—TROPOSCATTER (COMPLETE SYSTEMS)

California Microwave Inc Sunnyvale CA	408-732-4000
Harris Corp RF Commun Grp Rochester NY	716-244-5830
ITT Defense Communications Div Nutley NJ	201-284-0123
RCA Government Systems Div Cherry Hill NJ	609-338-3000
Signatron Inc Lexington MA	617-861-1500

COMMUNICATIONS SYSTEMS—UNDERWATER

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ENVIROMARINE SYSTEMS INC	
LAUREL MD	301-598-8833
AEG Corporation Somerville NJ	201-722-9800
AMETEK Straza Div El Cajon CA	619-442-3451
Computer Sciences Corp El Segundo CA	213-615-0311
Enviromarine Systems Inc Laurel MD	301-598-8833
General Instrument Corp Govt Systems Div	
Hicksville NY	516-933-3408
Hazeltine Corp Commack NY	516-462-5100
Signatron Inc Lexington MA	617-861-1500
Sonatech Inc Goleta CA	805-683-1431
Sparton Corp Jackson MI	517-787-8600
Sparton Electronics Div Sparton Corp	
Jackson MI	517-787-8600

COMMUNICATIONS SYSTEMS—VLF (COMPLETE SYSTEMS)

See Also Receivers & Transmitters Listings

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Communifonics Ltd Bohemia NY	516-567-8320
Computer Sciences Corp El Segundo CA	213-615-0311
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Cushman Electronics Inc San Jose CA	408-263-8100
Electro-Nav Inc Elizabeth NJ	201-527-0009
Electrospace Systems Inc Richardson TX	214-783-2004
Hekimian Labs Inc Gaithersburg MD	301-840-1217
ITT Defense Communications Div Nutley NJ	201-284-0123
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Thomson CSF Inc White Plains NY	914-694-4450

COMMUNICATION SYSTEM TESTERS

See Test Sets; Test Systems

See Also Instruments & Accessories Reference

List

COMMUNICATIONS TRANSMITTERS

See Transmitters

COMMUNITY TV ANTENNAS

See Antennas—CATV

COMMUTATOR SLIP RINGS

See Slip Rings; Slip Ring Assemblies

COMMUTATORS

TECH LABORATORIES INC	
PALISADES PARK NJ	201-944-2221
Airflyte Electronics Co Bayonne NJ	201-436-2230
Aristo-Craft New York NY	212-924-4041
Aydin Vector Div Newtown PA	215-968-4271
Collectron Corp Elmhurst NY	718-429-5200
Electro-Tec Corp Blacksburg VA	703-552-2111
Loral Data Systems/Conic San Diego CA	619-279-0411
Mercotac Inc San Diego CA	619-586-2751
Morganite Inc Dunn NC	919-892-8081
Reliance Electric Co Cleveland OH	800-245-4497
Tech Laboratories Inc Palisades Park NJ	201-944-2221
Unit Industries Inc Fullerton CA	714-871-4161

COMMUTATORS, SWITCHING—ELECTRONIC

PRESTON SCIENTIFIC INC ANAHEIM CA	714-776-6400
Base Ten Systems Inc Trenton NJ	609-586-7010
Cubic Corp San Diego CA	619-277-6780
Eon Instrumentation Inc Van Nuys CA	818-781-2185
Fifth Dimension Inc Trenton NJ	609-393-8350
Loral Data Systems/Conic San Diego CA	619-279-0411
Preston Scientific Inc Anaheim CA	714-776-6400
Sonex Corp Philadelphia PA	215-533-4900
Viz Test Equip Div Viz Mfg Co	
Philadelphia PA	215-844-2626

COMMUTATORS, SWITCHING—MOTOR DRIVEN CONTACT TYPE

TECH LABORATORIES INC	
PALISADES PARK NJ	201-944-2221
Airflyte Electronics Co Bayonne NJ	201-436-2230
Collectron Corp Elmhurst NY	718-429-5200
Electro-Tec Corp Blacksburg VA	703-552-2111
Fifth Dimension Inc Trenton NJ	609-393-8350
Tech Laboratories Inc Palisades Park NJ	201-944-2221

COMMUTATORS, SWITCHING—TELEMETERING

SERVO INSTRUMENT CORP BARABOO WI	608-356-6623
TECH LABORATORIES INC	
PALISADES PARK NJ	201-944-2221
Airflyte Electronics Co Bayonne NJ	201-436-2230
Base Ten Systems Inc Trenton NJ	609-586-7010
Eon Instrumentation Inc Van Nuys CA	818-781-2185
Fairchild Weston Systems Inc Sarasota FL	813-371-0811
Fifth Dimension Inc Trenton NJ	609-393-8350
Interface Engineering Inc Stoughton MA	617-344-7383
Loral Data Systems/Conic San Diego CA	619-279-0411
Matrix Corp Indianapolis IN	317-248-2036
Servo Instrument Corp Baraboo WI	608-356-6623
Sonex Corp Philadelphia PA	215-533-4900
Tech Laboratories Inc Palisades Park NJ	201-944-2221

COMPARATORS—AUTOMATIC TEST

See Test Listings

COMPARATORS—CIRCUITS

See Amplifiers, Analog Module: ICs Listings:

Modules

COMPARATORS—DIGITAL (EXCEPT CIRCUITS)

See Also Amplifiers, Analog Module: ICs Listings;

Modules—Digital

DCI INC OLATHE KS	913-782-5672
ELECTRO NUMERICS INC IRVINE CA	714-250-1501
IET LABS INC WESTBURY NY	516-334-5959
INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA	818-991-9614
NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
TIME ZERO CORP CLIFTON NJ	201-340-0400
Bay Labs Div Tegam Inc Madison OH	216-428-7505
C-Tek Inc Wakefield MA	617-246-1720
Datatron Labs Inc Sussex NJ	914-856-4313
DCI Inc Olathe KS	913-782-5672
DigiTec Dayton OH	513-254-6251

Dynapar Corp Gurnee IL	312-662-26
Electro Numerics Inc Irvine CA	714-250-15
Global Scientific Industries Inc Portland OR	503-641-141
IET Labs Inc Westbury NY	203-624-31
Interface Engineering Inc Stoughton MA	516-334-59
International Instrumentation Inc	617-344-73
Westlake Village CA	818-991-96
National Semiconductor Corp Santa Clara CA	408-721-50
NES Inc Carpentersville IL	312-426-59
Newport Electronics Inc Santa Ana CA	714-540-49
Plessey Semiconductors Irvine CA	714-951-52
Tau-Tron Inc Westford MA	617-692-51
Tesdata Systems Corp McLean VA	703-827-40
Time Zero Corp Clifton NJ	201-340-04
Toko America Inc Mt Prospect IL	312-297-00
Valhalla Scientific Inc San Diego CA	619-457-55

COMPARATORS—FREQUENCY

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-21
SANDERS ASSOCIATES INC NASHUA NH	603-885-43
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-82
Adams-Russell Co Inc Anza Div	
Burlington MA	617-273-33
Anaren Microwave Inc E Syracuse NY	315-432-89
Autronics Corp Arcadia CA	818-445-54
Control Technology Co Inc	
Long Island City NY	718-361-21
Dranetz Technologies Inc Edison NJ	201-287-36
FCP Inc/Frequency Cont Prods Woodside NY	718-458-58
Kinematics/True Time Santa Rosa CA	707-528-12
National Semiconductor Corp Santa Clara CA	408-721-50
NES Inc Carpentersville IL	312-426-59
Parko Electronics Co Inc Irvine CA	714-660-80
Sanders Associates Inc Nashua NH	603-885-43
Solid State Electronics Corp Northridge CA	818-993-82
Spectracom Corp East Rochester NY	716-381-48
Tracor Inc Austin TX	512-929-20

COMPARATORS—IMPEDANCE

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-21
INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA	818-991-96
Control Technology Co Inc	
Long Island City NY	718-361-21
Dranetz Technologies Inc Edison NJ	201-287-36
Gen Rad Inc Waltham MA	617-369-44
International Instrumentation Inc	
Westlake Village CA	818-991-96
Parko Electronics Co Inc Irvine CA	714-660-80
RE Instruments Corp Westlake OH	216-871-76
Wide Band Engineering Co Inc Phoenix AZ	602-254-15

COMPARATORS—OPTICAL

See Optical Comparators

COMPARATORS—PHASE

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-21
SANDERS ASSOCIATES INC NASHUA NH	603-885-43
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-82
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-33
Anaren Microwave Inc E Syracuse NY	315-432-89
Austron Inc Austin TX	512-251-23
Autronics Corp Arcadia CA	818-445-54
Control Technology Co Inc	
Long Island City NY	718-361-21
Dranetz Technologies Inc Edison NJ	201-287-36
Kinematics/True Time Santa Rosa CA	707-528-12
Lorch Electronics Corp Englewood NJ	201-569-82
Merrimac Industries Inc West Caldwell NJ	201-575-13
Olektron Corp Webster MA	617-943-74
Parko Electronics Co Inc Irvine CA	714-660-80
Sanders Associates Inc Nashua NH	603-885-43
Solid State Electronics Corp Northridge CA	818-993-82
Spectracom Corp East Rochester NY	716-381-48
Triangle Microwave Inc East Hanover NJ	201-884-14

COMPARATORS—VOLTAGE (EXCEPT CIRCUITS)

ILC DATA DEVICE CORP BOHEMIA NY	516-567-56
Applied Controls Co Inc Fairfield NJ	201-227-54
Autronics Corp Arcadia CA	818-445-54
Calex Mfg Co Inc Pleasant Hill CA	415-932-35
Guidline Instruments Inc Orlando FL	305-423-82
ILC Data Device Corp Bohemia NY	516-567-56
LeCroy Corp Spring Valley NY	914-425-20
Leeds & Northrup Instruments	
North Wales PA	215-643-20
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-66
National Semiconductor Corp Santa Clara CA	408-721-50
NES Inc Carpentersville IL	312-426-59
Optical Electronics Inc Tucson AZ	602-624-83
Parko Electronics Co Inc Irvine CA	714-660-80
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-36
Valhalla Scientific Inc San Diego CA	619-457-55
Zi-Tech Instrument Corp Palo Alto CA	415-326-27

COMPASSES—AIRCRAFT & SHIP

Electro-Nav Inc Elizabeth NJ	201-527-0099
Humphrey Inc San Diego CA	619-565-6631
Sperry Corp Aerospace & Marine Group Phoenix AZ	602-869-2311
Watson Industries Inc Eau Claire WI	715-839-0628

COMPASSES—RADIO

See Receivers, Radio Navigation

COMPONENTS & PARTS

See Specific Types Desired

See Also Categories Referenced As Follows:

Alarm Devices
Antenna Listings
Cable Assemblies with Connectors
Ceramic Parts
Fabric Parts
Fasteners & Fastening Devices
Ferrite Parts
Glass & Glass Parts
Hardware—Electronic
ICs Listings
Infrared Optical Components
Laminations
Metal Parts
Mica Parts
Microwave Circuits
Optical Lenses & Prisms
Package Parts
Packages
Paper Parts
Plastic Parts
Printed Circuits
Production Services
Quartz Parts
Rubber—Parts
Sapphire—Finished Parts
Shielding, Magnetic—Cans or Housings
Substrates
Tube Parts
Wiring Harnesses
Wiring Matrixes, Microminiature

COMPUTER-AIDED DESIGN SYSTEMS

INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA	818-991-9614
TIME ZERO CORP CLIFTON NJ	201-340-0400
Algorex Corp Hauppauge NY	516-434-9400
Analogic Corp Peabody MA	617-532-5660
Applicon Ann Arbor MI	313-995-6000
Autodesk Inc Sausalito CA	415-332-2344
Auto-trol Technology Corp Denver CO	303-452-4919
Aydin Controls Ft Washington PA	215-542-7800
Bishop Graphics Inc Westlake Village CA	818-991-2600
Cadnetix Corp Boulder CO	303-444-8075
CalComp Anaheim CA	714-821-2000
Computer Talk Inc Morrison CO	303-697-5485
Cromemco Inc Mtn View CA	415-964-7400
Digital Equipment Corp Maynard MA	617-897-5111
ECO Instruments Div Sea Data Corp Newton MA	617-964-8360
FutureNet Corp Canoga Park CA	818-700-0061
Gerber Scientific Instrument Co South Windsor CT	203-644-1551
Harris Corp Computer Systems Div Ft Lauderdale FL	305-974-1700
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
International Instrumentation Inc Westlake Village CA	818-991-9614
Istel Inc Burlington MA	617-272-7333
Jupiter Systems Inc Alameda CA	415-523-9000
Lexidata Corp Billerica MA	617-663-8550
Lundy Electronics & Systems Inc Glen Head NY	516-671-9000
Microsim Corp Laguna Hills CA	714-770-3022
Optifab Inc Phoenix AZ	602-271-0921
Perq Systems Corp Pittsburgh PA	412-355-0900
Racal-Redac Inc Westford MA	617-692-4900

For addresses, phones & sales offices, see green pages

Ridge Computers Corp Santa Clara CA	408-986-8500
Siltran Digital Atascadero CA	805-466-3209
Summit CAD Corp Houston TX	713-440-1468
Tektronix Inc CAE Systems Div Santa Clara CA	408-727-1234
Time Zero Corp Clifton NJ	201-340-0400
Verticom Inc Sunnyvale CA	408-747-1222
VIA Systems Inc North Billerica MA	617-667-8574
Wintek Corp Lafayette IN	317-742-8428
Wire Graphics Inc Farmingdale NY	516-293-1525
WRB Assoc Inc Troy MI	313-589-0054

COMPUTER BOARD-LEVEL SYSTEMS

See Computers—Board-Level

COMPUTER CABLES WITH STANDARD CONNECTORS (RS232C, IEEE-488, ETC.)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AMP INCORPORATED HARRISBURG PA	717-564-0100
CONSOLIDATED ELECTRONIC WIRE & CABLE CORP FRANKLIN PARK IL	312-455-8830
ADV PG 55	
INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA	818-991-9614
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Accurate Electronics Corp Elyria OH	216-365-1211
Acurex Autodata Mountain View CA	415-964-3200
ADC Telecommunications Minneapolis MN	612-835-6800
AEG Corporation Somerville NJ	201-722-9800
Alphatron Ltd Haverhill MA	617-687-2371
AMP Incorporated Harrisburg PA	717-564-0100
Brintec Corp Brand-Rex Cable Sys Div Willimantic CT	203-456-8000
Cirris Systems Corp Salt Lake City UT	801-466-6600
Computer Cable & Products Inc Farmingdale NY	516-293-1610
Consolidated Electronic Wire & Cable Corp Franklin Park IL	312-455-8830
Craig Data Cable Co Inc Stamford CT	203-356-9315
C-W Industries Southampton PA	215-355-7080
Dataprobe Inc Palisades Park NJ	201-947-9500
Digital Equipment Corp Maynard MA	617-897-5111
Electro Standards Lab Inc Providence RI	401-943-1164
Eventide Inc Little Ferry NJ	201-641-1200
Gandalf Data Inc Wheeling IL	312-541-6060
GSI Corp Timonium MD	301-252-1768
Harbor Electronics Inc Ridgefield CT	203-438-9625
ICS Electronics Corp San Jose CA	408-263-4844
Infotek Systems Anaheim CA	714-956-9300
International Instrumentation Inc Westlake Village CA	818-991-9614
King Wire & Cable Corp Jamaica NY	718-657-4422
Manger Electric Co Inc Stamford CT	203-348-7761
Micom Systems Inc Simi Valley CA	805-583-8600
National Instruments Austin TX	215-250-9119
National Telephone & Elctns Inc Miami FL	305-592-0551
Northern Automatic Assembly Inc Shoreview MN	612-481-0022
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Ora Electronics Div Alliance Rsch Corp Chatsworth CA	818-701-5848
Pacific Electricord Co Gardena CA	213-532-6600
Peerless Radio Corp Lynbrook NY	516-593-2121
Pfanstiehl Waukegan IL	312-623-1360
Recoton Corp Long Island City NY	718-392-6442
Sager Hingham MA	617-749-6700
Storm Products Co Inglewood CA	213-776-8141
Support Systems Intl Cables & Access Div Richmond CA	415-234-9090
Telecommunication Devices Inc Downers Grove IL	312-971-3460
Tienet Inc Boulder CO	303-444-2600
Topaz Inc San Diego CA	619-569-7982
Vertex Electronics Inc Farmingdale NY	516-293-9880
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

COMPUTER CARD READERS

Alloy Computer Products Inc Framingham MA	617-875-6100
BMS Data Handling Inc Riverside CA	714-359-8824
Chatsworth Data Corp Chatsworth CA	213-341-9200
Cognitronics Corp Stamford CT	203-327-5307
Computer Products Inc Grant Tech Div Chelmsford MA	617-256-8881
Data General Corp Westboro MA	617-366-8911
Digital Equipment Corp Maynard MA	617-897-5111
GEN/COMP Inc Canton MA	617-828-2008
Harris Corp Computer Systems Div Ft Lauderdale FL	305-974-1700
HEI Inc Victoria MN	612-443-2500
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
Peripheral Dynamics Inc Plymouth Meeting PA	215-825-7090
Raymond Engineering Inc Middletown CT	203-632-1000
Sealectro Corp Trumbull CT	203-372-4118
Taurus Corp Lambertville NJ	609-397-2390
True Data Corp Irvine CA	714-979-4842

COMPUTER CARDS

See Cards—Punch; Computers—Board-Level

COMPUTER INPUT IMAGE SCANNERS (INCL. DOCUMENT READERS)

LEAR SIEGLER INC ELECTRONIC INSTRUMENTATION DIV ANAHEIM CA		714-774-1010
BMS Data Handling Inc Riverside CA	714-359-8824	
Caere Corp Los Gatos CA	408-395-7000	
CEL CO (Constantine Engineering Labs Co) Mahwah NJ	201-327-1123	
Cognitronics Corp Stamford CT	203-327-5307	
Data-Sud/Systems US Inc Tempe AZ	602-438-1492	
Dest Corp Milpitas CA	408-946-7100	
Digital Equipment Corp Maynard MA	617-897-5111	
EGG Reticon Sunnyvale CA	408-738-4266	
Integrated Photomatrix Inc Mountainside NJ	201-233-6010	
Leer Siegler Inc Electronic Instrumentation Div Anaheim CA	714-774-1010	
Lundy Electronics & Systems Inc Glen Head NY	516-671-9000	
Percon/Peripheral Connections Inc Eugene OR	503-344-1189	
Recognition Concepts Inc Incline Village NV	702-831-0473	
Scan-Graphics Inc Broomall PA	215-328-1040	
Sierra Scientific Mountain View CA	408-745-1500	
Spatial Data Systems Inc Melbourne FL	305-729-8346	
Spectron Engineering Inc Denver CO	303-623-8987	
Sulmar Systems Engineering Belmont MA	617-862-6358	
Technical Arts Corp Redmond WA	206-885-1185	

COMPUTER INPUT MAGNETIC SCANNERS

See Magnetic Card & Code Readers

COMPUTER INPUT MICE

Digital Equipment Corp Maynard MA	617-897-5111
Disc Instruments, A Honeywell Sub Costa Mesa CA	714-979-5300
Hewlett-Packard Palo Alto CA	415-857-8000
Logitech Inc Redwood City CA	415-365-9852

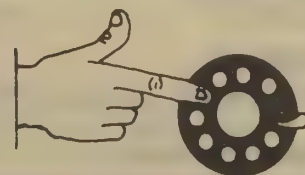
COMPUTER INPUT TABLETS

Atek Corp Silver Spring MD	301-622-3906
Apple Computer Inc Cupertino CA	408-996-1010
Applicon Ann Arbor MI	313-995-6000
Cherry Electrical Products Corp Waukegan IL	312-662-9200
Computer Talk Inc Morrison CO	303-697-5485
Digital Equipment Corp Maynard MA	617-897-5111
Elgraphics Inc Oak Ridge TN	615-482-4100
GTCO Corp Rockville MD	301-279-9550
Hewlett-Packard Palo Alto CA	415-857-8000
Houston Instrument Austin TX	512-835-0900
Numonics Corp Lansdale PA	215-362-2766
Preh Electronics Industries Inc Niles IL	312-647-8338
Science Accessories Corp Southport CT	203-255-1526
Summagraphics Corp Fairfield CT	203-384-1344
Summit CAD Corp Houston TX	713-440-1468

COMPUTER INPUT TOUCH SUBSYSTEMS (CRT TOUCH)

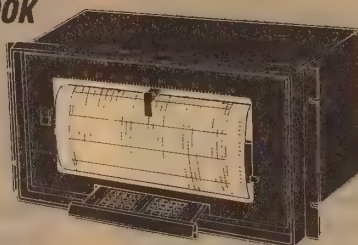
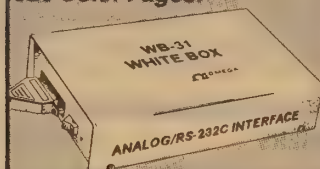
AMP INCORPORATED HARRISBURG PA	717-564-0100
AMP Incorporated Harrisburg PA	717-564-0100
Carroll Touch Round Rock TX	512-244-3500
Digital Equipment Corp Maynard MA	617-897-5111
Dorman Bogdonoff Corp Andover MA	617-470-0001
Fluke Mfg Co Inc John Everett WA	206-356-5400
Hewlett-Packard Palo Alto CA	415-857-8000
Peritek Corp Oakland CA	415-531-6500
TSD Display Products Inc Bohemia NY	516-589-6800
Unitronix Corp Somerville NJ	201-231-9400

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COMPUTER INTERFACE AND DATA ACQUISITION

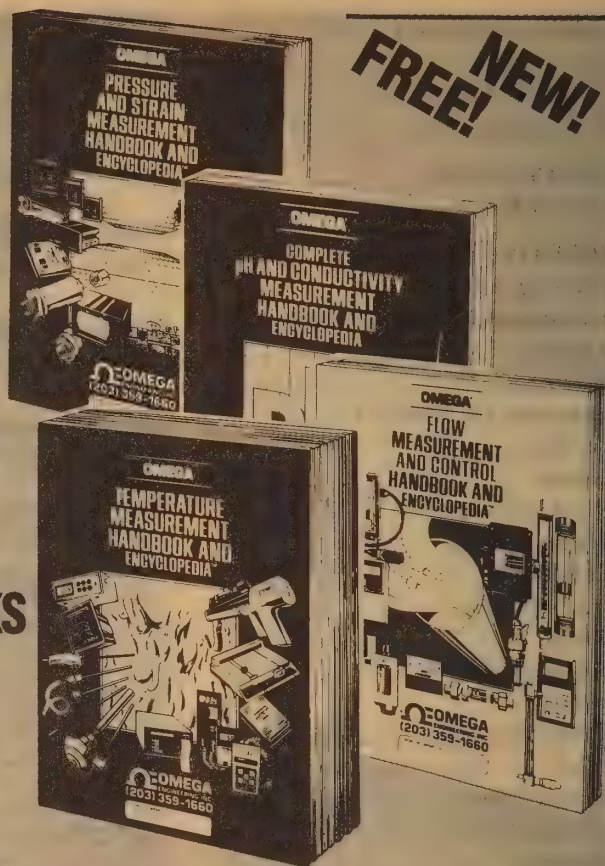
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COMPUTER INTERFACE

INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA.....	818-991-9614
OMEGA ENGINEERING INC	
STAMFORD CT.....	203-359-1660
ADG PGS 110, Gatefold	
Acromag Inc Wixom MI.....	313-624-1541
Acrosystems Corp Beverly MA.....	617-927-8880
Applied Micro Technology Inc Tucson AZ.....	602-622-8605
ATV Research Inc Dakota City NE.....	402-987-3771
Auscom a KMW Sys Co Austin TX.....	512-836-8080
Bit 3 Computer Corp Minneapolis MN.....	612-881-6955
Daytronic Corp Miamisburg OH.....	513-866-3300
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI.....	414-449-6000
Electrohome Ltd Kitchener ON.....	519-744-7111
Elxor Associates Morris Plains NJ.....	201-299-1615
Erbtec Engineering Inc Boulder CO.....	303-447-8750
Helm Instrument Co Inc Maumee OH.....	419-893-4356
Hewlett-Packard Palo Alto CA.....	415-857-8000
Industrial Computer Designs Inc	
Westlake Village CA.....	818-889-3179
International Instrumentation Inc	
Westlake Village CA.....	818-991-9614
Kinetic Systems Corp Lockport IL.....	815-838-0005
Magnum Opus Custom Electronic Engrg	
Iselin NJ.....	201-283-4925
MDB Systems Inc Orange CA.....	714-998-6900
Method Systems Inc Willoughby OH.....	216-942-2100
Micom Systems Inc Simi Valley CA.....	805-583-8600
Motorola Semiconductor Products Inc	
Phoenix AZ.....	602-244-6900
National Instruments Austin TX.....	215-250-9119
Omega Engineering Inc Stamford CT.....	203-359-1660
Ora Electronics Div Alliance Rsch Corp	
Chatsworth CA.....	818-701-5848
Performance Technologies Inc	
East Rochester NY.....	716-586-6727
Risk Industries Inc George Kimball NE.....	308-235-4645
Simco/Ramic Corp Medford OR.....	503-776-9800
Strawberry Tree Computers Sunnyvale CA.....	408-736-3083
Technology 80 Inc Minneapolis MN.....	612-542-9545
Transensory Devices Inc Fremont CA.....	415-490-3333
Welch Allyn Inc Industrial Div	
Skaneateles Falls NY.....	315-685-8395

COMPUTER KITS

See Kits—Computer

COMPUTER LIGHT PENS

SANDERS ASSOCIATES INC NASHUA NH..... 603-885-4321

Aydin Controls Ft Washington PA.....	215-542-7800
Design Technology San Diego CA.....	619-268-8194
Digital Equipment Corp Maynard MA.....	617-897-5111
Disc Instruments, A Honeywell Sub	
Costa Mesa CA.....	714-979-5300
HEI Inc Victoria MN.....	612-443-2500
Hewlett-Packard Palo Alto CA.....	415-857-8000
Information Control Corp Los Angeles CA.....	213-841-8520
Paradyne Corp Largo FL.....	813-530-2000
Photobell Co Inc Fairfield NJ.....	201-227-3613
Sanders Associates Inc Nashua NH.....	603-885-4321
Welch Allyn Inc Industrial Div	
Skaneateles Falls NY.....	315-685-8395

COMPUTER MEMORY SYSTEMS

See Computer Storage Systems; Memories

COMPUTER NETWORKING

See Communications Systems—Data; Local Area
Network Equipment

COMPUTER OUTPUT MICROFILM READERS

CANON USA INC ELECTRONIC COMPONENTS DIV	
LAKE SUCCESS NY.....	516-488-6700
Canon USA Inc Electronic Components Div	
Lake Success NY.....	516-488-6700
Datagraphix Inc San Diego CA.....	619-291-9960
Eastman Kodak Co Rochester NY.....	716-724-4000
Gordon Enterprises Inc North Hollywood CA.....	818-985-5500
Memorex Corp Santa Clara CA.....	408-987-1000
Photomatrix Corp Santa Monica CA.....	213-828-9585

COMPUTER OUTPUT MICROFILM RECORDERS

Autologic Inc Newbury Park CA.....	805-498-9611
CELCO (Constantine Engineering Labs Co)	
Mahwah NJ.....	201-327-1123
Datagraphix Inc San Diego CA.....	619-291-9960
Eastman Kodak Co Rochester NY.....	716-724-4000
Image Graphics Inc Fairfield CT.....	203-259-1394
Memorex Corp Santa Clara CA.....	408-987-1000

COMPUTER OUTPUT PLOTTERS

B-G INSTRUMENTS INC ALTA LOMA CA.....	714-989-4802
ADV PG 367	
ENVIROMARINE SYSTEMS INC	
LAUREL MD.....	301-598-8833
IWATSU INSTRUMENTS INC	
CARLSTADT NJ.....	201-935-5220
Advanced Color Technology Inc	
Chelmsford MA.....	617-256-1222
Alpha Merics Corp Chatsworth CA.....	818-709-1155
AMF Geo Space Corp Houston TX.....	713-666-1611
Applcon Ann Arbor MI.....	313-995-6000
Autologic Inc Newbury Park CA.....	805-498-9611
Axiom Corp San Fernando CA.....	818-365-9521
Bascom-Turner Instruments Norwood MA.....	800-225-3298
B-G Instruments Inc Alta Loma CA.....	714-989-4802
CalComp Anaheim CA.....	714-821-2000
Computer Talk Inc Morrison CO.....	303-697-5485
Data Technology Inc Woburn MA.....	617-935-8820
Digital Equipment Corp Maynard MA.....	617-897-5111
ECO Instruments Div Sea Data Corp	
Newton MA.....	617-964-8360
Enter Computer Inc San Diego CA.....	619-457-4372
Enviromarine Systems Inc Laurel MD.....	301-598-8833
Everett/Charles Marketing Services Inc	
Fontana CA.....	714-899-2521
Gerber Scientific Instrument Co	
South Windsor CT.....	203-644-1551
Harris Corp Computer Systems Div	
Ft Lauderdale FL.....	305-974-1700
Hewlett-Packard Palo Alto CA.....	415-857-8000
Houston Instrument Austin TX.....	512-835-0900
Image Graphics Inc Fairfield CT.....	203-259-1394
Iwatsu Instruments Inc Carlstadt NJ.....	201-935-5220
Mauro Engineering Div Numonics Corp	
Mount Shasta CA.....	916-926-4406
Nicolet Computer Graphics Div Martinez CA.....	415-372-7568
Numonics Corp Lansdale PA.....	215-362-2766
Printronic Inc Irvine CA.....	714-863-1900
Sakata USA Corp Elk Grove Village IL.....	312-593-3211
Scan-Graphics Inc Brookmell PA.....	215-328-1040
Summit CAD Corp Houston TX.....	713-440-1468
Tektronix Inc Beaverton OR.....	800-547-6711
Unifonix Corp Somerville NJ.....	201-231-9400
Versatec Inc Santa Clara CA.....	408-988-2800
Yokogawa Corp Of America Shenandoah GA.....	404-253-7000

COMPUTER PATCHBOARDS, PLUGBOARDS & PROBLEM BOARDS

AMP INCORPORATED HARRISBURG PA.....	717-564-0100
INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA.....	818-991-9614

Electro-mechanical
products with

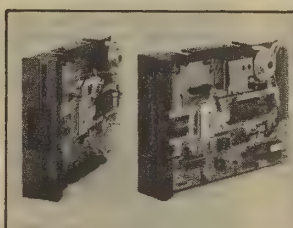
The Alps Advantage

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- High Quality & Reliability
- Competitive Pricing
- World-Wide Reputation



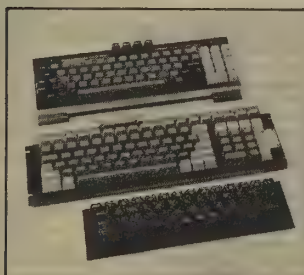
KEY SWITCHES

Choose from several contact types: mechanical, conductive rubber or tactile feedback. Snap-in mounting. Double-shot molded keytops in many colors, shapes, legends. Fully automated assembly assures maximum reliability, with ratings up to 20-million operating cycles.



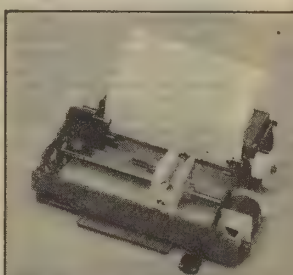
FLOPPY DISK DRIVES

New design units, for 5¼" disks, offers super-slim profile—only 1.69" thick, half the conventional thickness. Standard features include fast access time, automatic eject, long-life ceramic head, and surprisingly low price! Available with or without built-in electronics control board.



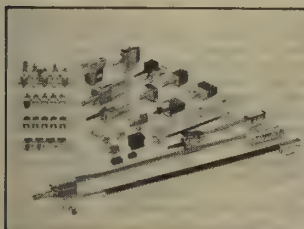
KEYBOARDS

Standard and custom keyboards, fully assembled including switches, keytops, PC board, matrix circuit, encoder circuit. NEW!—Series KCL Low Profile Keyboards meet all the latest European DIN standards for full-travel key switches with reduced profile dimensions.



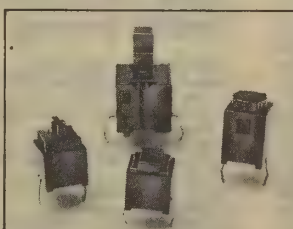
MICROMINIATURE PRINTERS

An incredible example of "The Alps Advantage" in technical innovation, Series DPG printers handle Alpha-Numeric-Graphic requirements, actually writing with microminiature ball point pens (1 or 4 colors!) invented by Alps using exclusive ink technology. Available for 2¼" or 4½" ordinary plain paper. Their small size and small price will astound you!



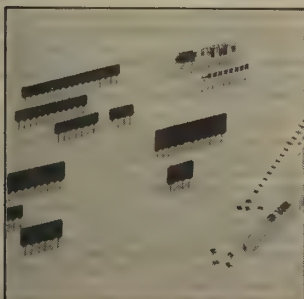
SWITCHES

Alps produces more than 900,000,000 switches per year, including some of the world's smallest, in a variety of types—rotary, push, slide, lever, power, flex and digital—all noteworthy for their unsurpassed smooth-action performance, built-in quality and long-life reliability.



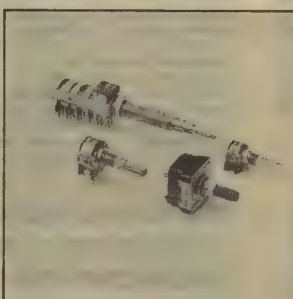
TACT SWITCHES

Tactile key switches with a "snap" (conductive rubber) or "click" (metal contacts) feeling to signal when contact is made. Available in a wide range of life cycle ratings, shapes, sizes, and "feelings"—ideal for many types of mini-keyboard applications.



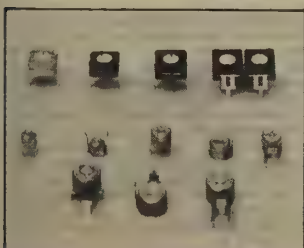
RESISTOR NETWORKS & CHIP RESISTORS

Thick film cermet element on alumina substrate, for extremely high stability. Networks in SIP configuration, from 4 to 17 pins, with resistance values from 10 ohms to 1 megohm. Chips are international standard size, 1.6 × 3.2 × .55 mm, with values from 10 ohms to 10 megohms. Available in bulk, reel tape, or plastic magazine for automatic chip placement machines.



VARIABLE RESISTORS

Rotary and slide types, ranges from 500 ohms to 2 megohms, with a wide variety of diameters, strokes, tapers, mounting, shafts, levers, etc. Exclusive lubricants for high quality smooth action. Miniature trimmer pots, sizes from 4mm to 16mm, with cermet, carbon film or carbon composition elements—ranges from 100 ohms to 2.2 megohms. Stick controls packaged with 2, 3 or 4 pots.



TRIMMER CAPACITORS

Ceramic or film elements, trimmer ranges from 2.5–6 pF to 10–150 pF. Snap-in terminals, with standard, reverse or side mounting—front or rear adjustment. Minimum drift, with virtually linear temperature characteristics. Precision structure protects dielectric from contamination by flux or wax.

OTHER PRODUCTS now available from Alps include: telephone keypads, liquid crystal displays, magnetic heads, cassette mechanisms, RF modulators, switches, TV tuners.

ALPS

ALPS ELECTRIC (USA), INC.

3553 No. First St., San Jose, CA 95131 Tel. 408-946-6000
100 No. Centre Ave., Rockville Centre, NY 11570 Tel. 516-766-3636
1810 So. Lynhurst Dr. X, Indianapolis, IN 46241 Tel. 317-248-2577

Allied Systems Corp Greensboro NC	919-299-2294
AMP Incorporated Harrisburg PA	717-564-0100
CompuPro Hayward CA	415-786-0909
Dataprobe Inc Palisades Park NJ	201-947-9500
Digital Equipment Corp Maynard MA	617-897-5111
Electronic Associates Inc	
West Long Branch NJ	201-229-1100
Electro Standards Lab Inc Providence RI	401-943-1163
Global Specialties Corp New Haven CT	203-624-3104
International Instrumentation Inc	
Westlake Village CA	818-991-9614
Leighton Electronics Inc Leighton PA	215-377-5990
LVC Industries Inc Co-Ord Switch Div	
Freeport NY	516-868-1900
Mac Panel Co High Point NC	919-884-8111
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
Ross Co Milton Southampton PA	215-355-0200
Sealectro Corp Trumbull CT	203-372-4118
Support Systems Intl Cables & Access Div	
Richmond CA	415-234-9090
Vector Electronic Co Inc Sylmar CA	818-365-9661
Virginia Panel Corp Waynesboro VA	703-949-8376

COMPUTER PLOTTING BOARDS

ENVIROMARINE SYSTEMS INC

LAUREL MD	301-598-8833
Data Technology Inc Woburn MA	617-935-8820
Electronic Associates Inc	
West Long Branch NJ	201-229-1100
Enviromarine Systems Inc Laurel MD	301-598-8833
Scan-Graphics Inc Broomall PA	215-328-1040

COMPUTER PRINTERS

See Printers

Force Computers Inc Los Gatos CA	408-354-3410
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COMPUTERS—AEROSPACE & MILITARY (ANALOG OR DIGITAL)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
American Hydromath Co Pawlet VT	802-325-3003
Analogic Corp Peabody MA	617-532-5660
Applied Dynamics Intl Ann Arbor MI	313-973-1300
Axis Inc San Diego CA	619-560-7737
Callan Data Systems Westlake Village CA	805-497-6837
Cromemco Inc Mtn View CA	415-964-7400
Datronic Corp Portland OR	503-684-3232
Electronic Associates Inc	
West Long Branch NJ	201-229-1100
General Digital Industries Inc Huntsville AL	205-837-8305
General Instrument Corp Govt Systems Div	
Hicksville NY	516-933-3408
Goodyear Aerospace Corp Akron OH	216-796-2121
Harris Corp Computer Systems Div	
Ft Lauderdale FL	305-974-1700
Hewlett-Packard Palo Alto CA	415-857-8000
Intermetrics Inc Cambridge MA	617-661-1840
Ironics Inc Ithaca NY	607-277-4060
Kinetic Systems Corp Lockport IL	815-838-0005
Lisp Machine Inc Los Angeles CA	213-642-1116
Litton Industries Guidance & Controls Sys Div	
Woodland Hills CA	818-715-4040
Marinco Computer Products San Diego CA	619-587-0461
Masscomp Westford MA	617-692-6200
NPC Electronics New Brighton MN	612-633-4591
Pacific Electro Dynamics Inc Redmond WA	206-881-1700
Parallel Computers Santa Cruz CA	408-429-1338
Perkin-Elmer Oceanport NJ	800-631-2154
Plessey Microsystems Pearl River NY	914-735-4661
Rolm Corp—Mil-Spec Computers	
San Jose CA	408-942-8000
Serial Lab Products Inc Marlboro MA	617-481-1684
Singer Co Kearfott Div Little Falls NJ	201-785-6000
Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
Teledyne Microelectronics Los Angeles CA	213-870-9831
White Technology Inc Phoenix AZ	602-437-1520
Zoltech Corp Van Nuys CA	818-780-1800

COMPUTERS—ANALOG & HYBRID

ANALOG—DIGITAL (EXCEPT AEROSPACE, MILITARY & INDUSTRIAL CONTROL)

American Computer Group Inc Boston MA	617-437-1100
Anascope Corp Wakefield MA	617-246-3300
Automation Systems Inc Eldridge IA	319-285-8171
Computer System Assoc Inc San Diego CA	619-586-3911
Cromemco Inc Mtn View CA	415-964-7400
Datronic Corp Portland OR	503-684-3232
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Electronic Associates Inc	
West Long Branch NJ	201-229-1100
Harris Corp Computer Systems Div	
Ft Lauderdale FL	305-974-1700
Hewlett-Packard Palo Alto CA	415-857-8000
Masscomp Westford MA	617-692-6200
Perkin-Elmer Oceanport NJ	800-631-2154
Plessey Microsystems Pearl River NY	914-735-4661
Serial Lab Products Inc Marlboro MA	617-481-1684
Teledyne Microelectronics Los Angeles CA	213-870-9831
Zoltech Corp Van Nuys CA	818-780-1800

COMPUTERS, ANALOG—INDUSTRIAL CONTROL

CONTROL TECHNOLOGY CO INC

LONG ISLAND CITY NY	718-361-2133
TELEDYNE GEOTECH GARLAND TX	214-271-2561
Acromag Inc Wixom MI	313-624-1541
Advanced Peripherals Inc Cleveland OH	216-721-6665
Analog Devices Inc Norwood MA	617-329-4700
Anascope Corp Wakefield MA	617-246-3300
Automation Systems Inc Eldridge IA	319-285-8171
Axis Inc San Diego CA	619-560-7737
Aydin Controls Ft Washington PA	215-542-7800
Bailey Controls Co Wickliffe OH	216-585-8500
Bristol Babcock Inc Waterbury CT	203-575-3000
Computer Dynamics Inc Greer SC	803-877-7471
Computer System Assoc Inc San Diego CA	619-586-3911
Control Technology Co Inc	
Long Island City NY	718-361-2133
Cromemco Inc Mtn View CA	415-964-7400
Cybernetic Micro Systems Inc	
San Gregorio CA	415-726-3000
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Data Translation Inc Marlboro MA	617-481-3700
Datronic Corp Portland OR	503-684-3232
Digital Equipment Corp Maynard MA	617-897-5111
Eagle Signal Controls Div Wickes Mfg Co	
Austin TX	512-837-8300
Electronic Associates Inc	
West Long Branch NJ	201-229-1100
Elcor Associates Morris Plains NJ	201-299-1615
Force Computers Inc Los Gatos CA	408-354-3410
The Foxboro Co Foxboro MA	617-543-8750
General Magnetics Inc Bloomfield NJ	201-743-2700
Gordos Corp Bloomfield NJ	201-743-6800
Hewlett-Packard Palo Alto CA	415-857-8000
Honeycomb Systems Inc Biddeford ME	207-282-1521
Industrial Control Co Rockledge FL	305-259-7105
Intelligent Controls Inc Saco ME	207-283-0156
Interdyne Co Van Nuys CA	213-787-6800
Intermetrics Inc Cambridge MA	617-661-1840
Ironics Inc Ithaca NY	607-277-4060
Key Image Systems Inc Chatsworth CA	818-993-1911
Kinetic Systems Corp Lockport IL	815-838-0005
National Telephone & Elctns Inc Miami FL	305-592-0551
NPC Electronics New Brighton MN	612-633-4591
Octagon Systems Corp Westminster CO	303-426-8540
OmniByte Corp West Chicago IL	312-231-6880
Perkin-Elmer Oceanport NJ	800-631-2154
Serial Lab Products Inc Marlboro MA	617-481-1684
Solid Controls Inc Minneapolis MN	612-941-6110
Sundstrand Data Control Inc Redmond WA	206-885-3711
Teledyne Geotech Garland TX	214-271-2561
Transwave Corp Vanderbilt PA	412-628-6370
Unico Inc Franksville WI	414-886-5678
VersaLogic Eugene OR	503-485-8575
Vesta Technology Wheat Ridge CO	303-422-8088
Watlow Electric Winona MN	507-454-5300

COMPUTERS—ANALYZERS, DIGITAL (FAST FOURIER & OTHER SPECIAL DIGITAL SYSTEMS)

Analogic Corp Peabody MA	617-532-5660
Applied Dynamics Intl Ann Arbor MI	313-973-1300
Azonix Corp Burlington MA	617-273-5550
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Dianachart Inc Rockaway NJ	201-625-2299
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Electronic Associates Inc	
West Long Branch NJ	201-229-1100
Fuji Electric Corp of America Los Angeles CA	213-622-4490
Hewlett-Packard Palo Alto CA	415-857-8000
Imaging Technology Inc Woburn MA	617-938-8444
IRD Mechanicals Inc Columbus OH	614-885-5376
Kinetic Systems Corp Lockport IL	815-838-0005
Marinco Computer Products San Diego CA	619-587-0461
Masscomp Westford MA	617-692-6200
Quay Corp Eatontown NJ	201-542-7340
Recognition Concepts Inc Incline Village NV	702-831-0473
Signal Processing Systems Inc Waltham MA	617-891-0400
Simco/Ramic Corp Medford OR	503-776-9800
Technology 80 Inc Minneapolis MN	612-542-9545
Carl Zeiss Inc Thornwood NY	914-747-1800

COMPUTERS—BOARD-LEVEL DIGITAL SYSTEMS FOR OEMS (INCL MICROCOMPUTER CARDS & SINGLE-BOARD COMPUTER FAMILIES)

See Also Converter Listings

B-G INSTRUMENTS INC ALTA LOMA CA	714-989-4802
INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA	818-991-9614
Acromag Inc Wixom MI	313-624-1541
Action Instruments Inc San Diego CA	619-279-5726
ADAC Corporation Woburn MA	617-935-6668
Allen Systems Columbus OH	614-488-7122
Alloy Computer Products Inc Framingham MA	617-875-6100
Ampro Computers Inc Mtn View CA	415-962-0230
Analogic Corp Peabody MA	617-532-5660
Anascope Corp Wakefield MA	617-246-3300
Andromeda Systems Canoga Park CA	818-709-7600
Apple Computer Inc Cupertino CA	408-996-1010
Applied Micro Technology Inc Tucson AZ	602-622-8605

Astraea Computer Corp Sunnyvale CA	408-773-85
A-Systems Inc Charlottesville VA	804-295-72
Automation Systems Inc Eldridge IA	319-285-81
Avatar Technologies Hopington MA	617-435-68
Axis Inc San Diego CA	619-560-77
B-G Instruments Inc Alta Loma CA	714-989-48
BICC-Verco Electronics Inc Trumbull CT	203-372-00
Callan Data Systems Westlake Village CA	805-497-68
Central Data Corp Champaign IL	217-359-80
Comark Corp Medfield MA	617-359-81
CompuPro Hayward CA	415-786-09
Computer Dynamics Inc Greer SC	803-877-74
Computer Extension Systems Inc Houston TX	713-488-88
Computer Products Inc Grant Tech Div	
Chelmsford MA	617-256-88
Cortex Research Corp Northbrook IL	312-480-10
Creative Micro Systems Los Alamitos CA	213-493-10
Cronetics Inc Lebanon NH	603-448-68
Cromemco Inc Mtn View CA	415-964-74
Cubit Div Proteus Industries Mt View CA	415-962-82
Cybersystems Inc Huntsville AL	205-883-44
Data General Corp Westboro MA	617-366-89
Dataprobe Inc Palisades Park NJ	201-947-95
Data-Sud/Systems US Inc Tempe AZ	602-438-14
Datatron Labs Inc Sussex NJ	914-856-43
Datawest Corp Scottsdale AZ	602-948-32
Datronic Corp Portland OR	503-684-32
Densan Div Pascom Inc Irvine CA	714-261-52
Digital Communication Assoc Alpharetta GA	404-442-40
Digital Dynamics Inc Scotts Valley CA	408-438-68
Digital Equipment Corp Maynard MA	617-897-51
Diversified Technology an Ergon Co	
Ridgeland MS	601-856-41
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-83
Electriclog Inc Signal Hill CA	213-595-05
Emulex Corp Costa Mesa CA	714-662-56
Enterprise Systems Corp Dover NH	603-742-73
Everett/Charles Marketing Services Inc	
Fontana CA	714-899-25
First Computer Corp Westmont IL	312-920-10
Force Computers Inc Los Gatos CA	408-354-34
General Micro Systems Inc Montclair CA	714-625-54
Gimix Inc Chicago IL	312-927-55
Gould Inc Computer Systems Div	
Ft Lauderdale FL	305-587-29
Graphic Strategies Inc Sunnyvale CA	408-745-65
Heurikon Corp Madison WI	608-271-87
Hewlett-Packard Palo Alto CA	415-857-80
Imaging Technology Inc Woburn MA	617-938-84
Inconix Corp Norwell MA	617-655-11
Industrial Computer Designs Inc	
Westlake Village CA	818-889-31
Industrial Micro-Systems Inc Southington CT	203-628-48
Interactive Circuits & Systems Ltd	
Ottawa ON	613-521-05
International Data Technology	
Ft Lauderdale FL	305-587-66
International Instrumentation Inc	
Westlake Village CA	818-991-96
Ironics Inc Ithaca NY	607-277-40
Kinetic Systems Corp Lockport IL	815-838-00
Logical Design Group Inc Raleigh NC	919-834-88
Logical Devices Inc Ft Lauderdale FL	305-974-09
Magnum Opus Custom Electronic Engrg	
Iselin NJ	201-283-49
Marinco Computer Products San Diego CA	619-587-04
Masscomp Westford MA	617-692-62
Matrox Electronic Systems Dorval PQ	514-685-26
MDB Systems Inc Orange CA	714-998-69
Megatec Computer Technologies Toronto ON	416-745-72
Mesa Technology Corp Gaithersburg MD	800-638-20
Microbar Systems Inc Sunnyvale CA	408-720-93
Micro/sys Inc Glendale CA	818-244-46
Miller Technology Inc Los Gatos CA	408-395-20
Mizar Inc St Paul MN	612-224-89
Mostron Inc San Jose CA	408-946-17
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-69
Multitech Electronics Inc Sunnyvale CA	408-773-84
NPC Electronics New Brighton MN	612-633-45
Octagon Systems Corp Westminster CO	303-426-85
Olektron Corp Webster MA	617-943-77
OmniByte Corp West Chicago IL	312-231-68
Onset Computer Corp North Falmouth MA	617-563-22
Owl Computers Inc Encinitas CA	619-436-42
Pacific Microcomputers Inc Cardiff CA	619-436-86
PCI Inc Santa Clara CA	408-980-05
Percon/Peripheral Connections Inc	
Eugene OR	503-344-11
Performance Technologies Inc	
East Rochester NY	716-586-67
Peritex Corp Oakland CA	415-531-65
Perkin-Elmer Oceanport NJ	800-631-21
Plessey Microsystems Pearl River NY	914-735-46
Pro-Log Corp Monterey CA	408-372-45
Quay Corp Eatontown NJ	201-542-73
Robitech Inc Wilmington MA	617-657-61
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-50
Rolm Corp—Mil-Spec Computers	
San Jose CA	408-942-80
Rugid Computer Sacramento CA	916-344-50
SCI Systems Inc Huntsville AL	205-882-48
Sensor Developments Inc Oxford MI	313-628-27
Serial Lab Products Inc Marlboro MA	617-481-16
STD Microsystems Palo Alto CA	415-327-68
Technology 80 Inc Minneapolis MN	612-542-95
Teledyne Microelectronics Los Angeles CA	213-870-98
Transwave Corp Vanderbilt PA	412-628-63
TSD Display Products Inc Bohemia NY	516-589-68
Vectrix Corp Greensboro NC	919-288-05
VersaLogic Eugene OR	503-485-85
Verticom Inc Sunnyvale CA	408-747-12
Vesta Technology Wheat Ridge CO	303-422-80
VMI-Vermont Microsystems Inc Winooski VT	802-655-38
Wintek Corp Lafayette IN	317-742-84
XYZ Electronics Inc Indianapolis IN	317-335-21
Xendex Corp Dublin CA	415-828-30
Ziatech Corp San Luis Obispo CA	805-541-04

COMPUTERS—DATA BASE MACHINES

INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA.....		818-991-9614
Analogue Corp Peabody MA.....	617-532-5660	
Applied Digital Data Systems Inc Hauapee NY.....	516-231-5400	
Astraea Computer Corp Sunnyvale CA.....	408-773-8500	
Autologic Inc Newbury Park CA.....	805-498-9611	
Cado Systems Corp Torrance CA.....	213-323-8170	
Comark Corp Medfield MA.....	617-359-8161	
CompuPro Hayward CA.....	415-786-0909	
Computer Consoles Inc Rochester NY.....	716-482-5000	
Convergent Technologies San Jose CA.....	408-945-8877	
Cromemco Inc Mtn View CA.....	415-964-7400	
Data General Corp Westboro MA.....	617-366-8911	
Daytronic Corp Miamisburg OH.....	513-866-3300	
Digital Equipment Corp Maynard MA.....	617-897-5111	
ECO Instruments Div Sea Data Corp Newton MA.....	617-964-8360	
Sirix Inc Chicago IL.....	312-927-5510	
Harris Corp Computer Systems Div Ft Lauderdale FL.....	305-974-1700	
Heurikon Corp Madison WI.....	608-271-8700	
Hewlett-Packard Palo Alto CA.....	415-857-8000	
Honeywell Information Systems Waltham MA.....	617-895-6000	
International Instrumentation Inc Westlake Village CA.....	818-991-9614	
Rd Mechanalysis Inc Columbus OH.....	614-885-5376	
Masscomp Westford MA.....	617-892-2000	
Mesa Technology Corp Gaithersburg MD.....	800-638-2039	
Microdats Corp Irvine CA.....	714-540-6730	
Microperipheral Corp Redmond WA.....	206-881-7544	
Mitsubishi Electronics America Inc Torrance CA.....	213-515-3993	
Mizar Inc St Paul MN.....	612-224-8941	
Multitech Electronics Inc Sunnyvale CA.....	408-773-8400	
Nixdorf Computer Corp No Reading MA.....	617-890-3600	
Perkin-Elmer Oceanport NJ.....	800-631-2154	
Quay Corp Eatontown NJ.....	201-542-7340	
Random Computers Inc Cupertino CA.....	408-725-6000	
Zoltech Corp Van Nuys CA.....	818-780-1800	

COMPUTERS—DATA
COMMUNICATIONS (EXCEPT
AEROSPACE & MILITARY)

Adtech Inc Honolulu HI.....	808-941-0708
Advanced Systems Concepts Inc Pasadena CA.....	213-793-8972
Altos Computer Systems San Jose CA.....	408-946-6700
American Computer Group Inc Boston MA.....	617-437-1100
American Laser Systems Inc Goleta CA.....	805-967-0423
Applied Micro Technology Inc Tucson AZ.....	602-622-8605
Astraea Computer Corp Sunnyvale CA.....	408-773-8500
Avatar Technologies Hopington MA.....	617-435-6872
BICC-Vero Electronics Inc Trumbull CT.....	203-372-0038
Braegen Corp Milpitas CA.....	408-945-1900
Bridge Communications Inc Mtn View CA.....	415-969-4400
Cado Systems Corp Torrance CA.....	213-323-8170
Compression Labs Inc San Jose CA.....	408-946-3060
Cromemco Inc Mtn View CA.....	415-964-7400
Data General Corp Westboro MA.....	617-366-8911
Datapoint Corp San Antonio TX.....	512-699-7000
Dataprobe Inc Palisades Park NJ.....	201-947-9500
Digital Communication Assoc Alpharetta GA.....	404-442-4000
Digital Equipment Corp Maynard MA.....	617-897-5111
Digital Products Inc Watertown MA.....	617-924-1680
ECO Instruments Div Sea Data Corp Newton MA.....	617-964-8360
Enterprise Systems Corp Dover NH.....	603-742-7363
FiberCom Inc Roanoke VA.....	703-342-6700
Force Computers Inc Los Gatos CA.....	408-354-3410
General Digital Industries Inc Huntsville AL.....	205-837-8305
Harris Corp Computer Systems Div Ft Lauderdale FL.....	305-974-1700
Heurikon Corp Madison WI.....	608-271-8700
Hewlett-Packard Palo Alto CA.....	415-857-8000
Honeywell Information Systems Waltham MA.....	617-895-6000
Ironics Inc Ithaca NY.....	607-277-4060
Kinetic Systems Corp Lockport IL.....	815-838-0005
Mesa Technology Corp Gaithersburg MD.....	800-638-2039
Micro Systems Inc Simi Valley CA.....	805-583-8600
Microdats Corp Irvine CA.....	714-540-6730
Mizar Inc St Paul MN.....	612-224-8941
Motorola Semiconductor Products Inc Phoenix AZ.....	602-244-6900
MSI Data Corp Costa Mesa CA.....	714-549-6000
Nixdorf Computer Corp No Reading MA.....	617-890-3600
Paradyne Corp Largo FL.....	813-530-2000
Parallel Computers Santa Cruz CA.....	408-429-1338
Perkin-Elmer Oceanport NJ.....	800-631-2154
Plessey Microsystems Pearl River NY.....	914-735-4661
CA Service Co-Automated Business Commun Svcs Cherry Hill NJ.....	609-338-4343
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Schuh & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
Solm Corp—Mil-Spec Computers San Jose CA.....	408-942-8000
erial Lab Products Inc Marlboro MA.....	617-481-1684
Imco/Ramco Corp Medford OR.....	503-776-9800
Inters Computer Systems Minneapolis MN.....	612-829-0361
Inters Computer Inc Marlboro MA.....	617-480-2000
Random Computers Inc Cupertino CA.....	408-725-6000
Inten Inc Boulder CO.....	303-444-2600
Intersitron Div Keene Corp Washington DC.....	202-722-8600
Intek Corp Lafayette IN.....	317-742-8428
erex Corp Business Sys Group Rochester NY.....	716-423-3539
oltech Corp Van Nuys CA.....	818-780-1800

COMPUTERS—GRAPHICS
WORKSTATIONS FOR OEMS

BUD INDUSTRIES INC WILLOUGHBY OH.....		216-946-3200
INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA.....		818-991-9614
Analogue Corp Peabody MA.....	617-532-5660	
Applicon Ann Arbor MI.....	313-995-6000	
Astraea Computer Corp Sunnyvale CA.....	408-773-8500	
Auto-trol Technology Corp Denver CO.....	303-452-4919	
Aydin Controls Ft Washington PA.....	215-542-7800	
Bud Industries Inc Willoughby OH.....	216-946-3200	
Buhl Industries Inc Fair Lawn NJ.....	201-423-2800	
CalComp Anaheim CA.....	714-821-2000	
Callan Data Systems Westlake Village CA.....	805-497-6837	
Celerity Computing San Diego CA.....	619-271-9940	
Chromatics Inc Tucker GA.....	404-493-7000	
Computer Talk Inc Morrison CO.....	303-697-5485	
Convergent Technologies San Jose CA.....	408-945-8877	
Cromemco Inc Mtn View CA.....	415-964-7400	
Cybersystems Inc Huntsville AL.....	205-883-4410	
Data General Corp Westboro MA.....	617-366-8911	
Digital Equipment Corp Maynard MA.....	617-897-5111	
Digital Microsystems Oakland CA.....	415-532-3686	
ECO Instruments Div Sea Data Corp Newton MA.....	617-964-8360	
Electrohome Ltd Kitchener ON.....	519-744-7111	
Enterprise Systems Corp Dover NH.....	603-742-7363	
Evans & Sutherland Computer Corp Salt Lake City UT.....	801-582-5847	
General Digital Industries Inc Huntsville AL.....	205-837-8305	
Heurikon Corp Madison WI.....	608-271-8700	
Hewlett-Packard Palo Alto CA.....	415-857-8000	
Industrial Vision Systems Inc Lowell MA.....	617-459-9000	
Intecolor Corp Norcross GA.....	404-449-5961	
International Instrumentation Inc Westlake Village CA.....	818-991-9614	
Ironics Inc Ithaca NY.....	607-277-4060	
Istel Inc Burlington MA.....	617-272-7333	
Jupiter Systems Inc Alameda CA.....	415-523-9000	
Lisp Machine Inc Los Angeles CA.....	213-642-1116	
Lundy Electronics & Systems Inc Glen Head NY.....	516-671-9000	
Masscomp Westford MA.....	617-892-2000	
Matrox Electronic Systems Dorval PQ.....	514-685-2630	
Metheus Corp Hillsboro OR.....	503-640-8000	
Microfield Graphics Inc Beaverton OR.....	503-626-9393	
Motorola Semiconductor Products Inc Phoenix AZ.....	602-244-6900	
Multitech Electronics Inc Sunnyvale CA.....	408-773-8400	
New Media Graphics Corp Burlington MA.....	617-272-8844	
Paradyne Corp Largo FL.....	813-530-2000	
Percon/Peripheral Connections Inc Eugene OR.....	503-344-1189	
Perq Systems Corp Pittsburgh PA.....	412-355-0900	
Psittech Fountain Valley CA.....	714-964-7818	
Ridge Computers Corp Santa Clara CA.....	408-986-8500	
Summit CAD Corp Houston TX.....	713-440-1468	
Sun Microsystems Inc Mtn View CA.....	415-960-1300	
Tektronix Inc CAE Systems Div Santa Clara CA.....	408-727-1234	
Telesis Systems Corp Chelmsford MA.....	617-256-2030	
VM-Vermont Microsystems Inc Winooski VT.....	802-655-3800	
Westward Technology Inc Maynard MA.....	617-897-1700	
Wire Graphics Inc Farmingdale NY.....	516-293-1525	
Zoltech Corp Van Nuys CA.....	818-780-1800	

COMPUTERS—MICRO, GENERAL
PURPOSE FOR OEMS

B-G INSTRUMENTS INC ALTA LOMA CA.....	714-989-4802
CANON USA INC ELECTRONIC COMPONENTS DIV LAKE SUCCESS NY.....	516-488-6700
INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA.....	818-991-9614
OPTO-22 HUNTINGTON BEACH CA.....	714-891-5861
Action Instruments Inc San Diego CA.....	619-279-5726
ADAC Corporation Woburn MA.....	617-935-6668
Altos Computer Systems San Jose CA.....	408-946-6700
American Computer Group Inc Boston MA.....	617-437-1100
Ampro Computers Inc Mtn View CA.....	415-962-0230
Analogue Corp Peabody MA.....	617-532-5660
Anasco Corp Wakefield MA.....	617-246-3300
Apple Computer Inc Cupertino CA.....	408-996-1010
Applied Micro Technology Inc Tucson AZ.....	602-622-8605
Astraea Computer Corp Sunnyvale CA.....	408-773-8500
Avatar Technologies Hopington MA.....	617-435-6872
B-G Instruments Inc Alta Loma CA.....	714-989-4802
BICC-Vero Electronics Inc Trumbull CT.....	203-372-0038
Cado Systems Corp Torrance CA.....	213-323-8170
Callan Data Systems Westlake Village CA.....	805-497-6837
Canon USA Inc Electronic Components Div Lake Success NY.....	516-488-6700
Central Data Corp Champaign IL.....	217-359-8010
Chrislin Industries Inc Westlake Village CA.....	818-991-2254
Comark Corp Medfield MA.....	617-359-8161
CompuPro Hayward CA.....	415-786-0909
Computer Dynamics Inc Greer SC.....	803-877-7471
Computer System Assoc Inc San Diego CA.....	619-566-3911
Convergent Technologies San Jose CA.....	408-945-8877
Corona Data Systems Inc Thousand Oaks CA.....	805-495-5800
Creative Micro Systems Los Alamitos CA.....	213-493-2484
Cromemco Inc Mtn View CA.....	415-964-7400
Cybersystems Inc Huntsville AL.....	205-883-4410
Data General Corp Westboro MA.....	617-366-8911
Datapoint Corp San Antonio TX.....	512-699-7000
Dataprobe Inc Palisades Park NJ.....	201-947-9500
Datatron Labs Inc Sussex NJ.....	914-856-4313
Datronic Corp Portland OR.....	503-684-3232
Digital Dynamics Inc Scotts Valley CA.....	408-438-6823
Digital Equipment Corp Maynard MA.....	617-897-5111
Digital Microsystems Oakland CA.....	415-532-3686
Diversified Technology an Ergon Co Ridgeland MS.....	601-856-4121
Eagle Computer Inc Garden Grove CA.....	714-891-2665

ECO Instruments Div Sea Data Corp Newton MA.....	617-964-8360
Enterprise Systems Corp Dover NH.....	603-742-7363
Everett/Charles Marketing Services Inc Fontana CA.....	714-899-2521
First Computer Corp Westmont IL.....	312-920-1050
Force Computers Inc Los Gatos CA.....	408-354-3410
General Digital Industries Inc Huntsville AL.....	205-837-8305
General Micro Systems Inc Montclair CA.....	914-625-5475
Gimix Inc Chicago IL.....	312-927-5510
Heurikon Corp Madison WI.....	608-271-8700
Hewlett-Packard Palo Alto CA.....	415-857-8000
Honeywell Information Systems Waltham MA.....	617-895-6000
Inconix Corp Norwell MA.....	617-655-1170
Industrial Computer Designs Inc Westlake Village CA.....	818-899-3179
Industrial Micro-Systems Inc Southington CT.....	203-628-4844
Intermetrics Inc Cambridge MA.....	617-661-1840
International Data Technology Ft Lauderdale FL.....	305-587-6823
International Instrumentation Inc Westlake Village CA.....	818-991-9614
Ironics Inc Ithaca NY.....	607-277-4060
Isotron Inc Fairfield CT.....	203-255-7443
Kinetic Systems Corp Lockport IL.....	815-838-0005
Kratons Analytical Ramsey NJ.....	201-934-9000
Matrox Electronic Systems Dorval PQ.....	514-685-2630
MD Systems Inc Orange CA.....	714-998-6900
Megal Computer Technologies Toronto ON.....	416-745-7214
Mesa Technology Corp Gaithersburg MD.....	800-638-2039
Microbar Systems Inc Sunnyvale CA.....	408-729-9300
Micro-Business Concepts Ventura CA.....	805-653-6660
Micro/sys Inc Glendale CA.....	818-244-4600
Miller Technology Inc Los Gatos CA.....	408-395-2032
Mitsubishi Electronics America Inc Torrance CA.....	213-515-3993
Mizar Inc St Paul MN.....	612-224-8941
Molecular Computer Corp San Jose CA.....	408-434-8500
Mostron Inc San Jose CA.....	408-946-1727
Motorola Information Systems Cupertino CA.....	408-255-0900
Motorola Semiconductor Products Inc Phoenix AZ.....	602-244-6900
Multitech Electronics Inc Sunnyvale CA.....	408-773-8400
Nixdorf Computer Corp No Reading MA.....	617-890-3600
NPC Electronics New Brighton MN.....	612-633-4591
Octagon Systems Corp Westminster CO.....	303-426-8540
Omnibyte Corp West Chicago IL.....	312-231-6880
Onset Computer Corp North Falmouth MA.....	617-563-2267
Opto-22 Huntington Beach CA.....	714-891-5861
Owl Computers Inc Encinitas CA.....	619-436-4214
Pacific Microcomputers Inc Cardiff CA.....	619-436-8649
Paradyne Corp Largo FL.....	813-530-2000
Parallel Computers Santa Cruz CA.....	408-429-1338
Perkin-Elmer Oceanport NJ.....	800-631-2154
Pertec Computer Corp Irvine CA.....	714-660-0488
Plessey Microsystems Pearl River NY.....	914-735-4661
Pro-Log Corp Monterey CA.....	408-372-4593
Quay Corp Eatontown NJ.....	201-542-7340
RCA Solid State Div Somerville NJ.....	201-685-6000
Robotech Inc Wilmington MA.....	617-657-6143
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Rugid Computer Sacramento CA.....	916-344-5064
SCI Systems Inc Huntsville AL.....	205-882-4800
Siltron Digital Atascadero CA.....	805-466-3209
Solid Controls Inc Minneapolis MN.....	612-941-6110
STD Microsystems Palo Alto CA.....	415-327-6800
Stearns Computer Systems Minneapolis MN.....	612-829-0361
Symmetric Computer Systems San Jose CA.....	408-279-0700
Tatung Co of America Long Beach CA.....	213-637-2105
Technology 80 Inc Minneapolis MN.....	612-542-9545
Techtron Elkhart IN.....	219-294-8300
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Transwave Corp Vanderbilt PA.....	412-628-6370
Unitronix Corp Somerville NJ.....	201-231-9400
Verilog Eugene OR.....	503-485-8575
Vesta Technology Wheat Ridge CO.....	303-422-8088
White Technology Inc Phoenix AZ.....	602-437-1520
Wicat Systems Inc Orem UT.....	801-224-6400
Wintek Corp Lafayette IN.....	317-742-8428
Xerox Corp Business Sys Group Rochester NY.....	716-423-3539
Ziatech Corp San Luis Obispo CA.....	805-541-0488
Zilog Inc Campbell CA.....	408-370-8000
Zoltech Corp Van Nuys CA.....	818-780-1800

COMPUTERS—MICRO,
INSTRUMENTATION & CONTROL
(EXCEPT TEST SYSTEM CONTROL
ONLY)

B-G INSTRUMENTS INC ALTA LOMA CA.....	714-989-4802
Aeromag Inc Wixom MI.....	313-624-1541
Acrotech Brea CA.....	714-529-4666
Action Instruments Inc San Diego CA.....	619-279-5726
ADAC Corporation Woburn MA.....	617-935-6668
Adtech Inc Honolulu HI.....	808-941-0708
Allen Systems Columbus OH.....	614-488-7122
American Computer Group Inc Boston MA.....	617-437-1100
Analogue Corp Peabody MA.....	617-532-5660
Anasco Corp Wakefield MA.....	617-246-3300
Applied Micro Technology Inc Tucson AZ.....	602-622-8605
Astraea Computer Corp Sunnyvale CA.....	408-773-8500
A-Systems Inc Charlottesville VA.....	804-295-7200
Autocore Industries Inc St Paul MN.....	612-642-1784
Automation Systems Inc Eldridge IA.....	319-285-8171
Azonix Corp Burlington MA.....	617-273-5550
Bailey Controls Co Wickliffe OH.....	216-585-8500
B & F Instruments Div FX Sys Corp Kingston NY.....	914-338-0515
B-G Instruments Inc Alta Loma CA.....	714-989-4802
BICC-Vero Electronics Inc Trumbull CT.....	203-372-0038
Bristol Babcock Inc Waterbury CT.....	203-575-3000
BTU Engineering Corp. North Billerica MA.....	617-667-4111
Callan Data Systems Westlake Village CA.....	805-497-6837

CompuDas Corp Ithaca NY	607-257-3003
CompuPro Hayward CA	415-786-0909
Computer Dynamics Inc Greer SC	803-877-7471
Computer System Assoc Inc San Diego CA	619-566-3911
Cortex Research Corp Northbrook IL	312-480-1088
CPI Corp Pacheco CA	415-687-6472
Cronics Inc Lebanon NH	603-448-6300
Cromemco Inc Mtn View CA	415-964-7400
Cybersystems Inc Huntsville AL	205-883-4410
Data General Corp Westboro MA	617-366-8911
Datatron Labs Inc Sussex NJ	914-856-4313
Datatron Corp Portland OR	503-684-3232
Dianachart Inc Rockaway NJ	201-625-2299
Digital Dynamics Inc Scotts Valley CA	408-438-6823
Digital Equipment Corp Maynard MA	617-897-5111
Diversified Technology an Ergon Co	
Ridgeland MS	601-856-4121
Drexelbrook Engineering Co Horsham PA	215-674-1234
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Electronic Inc Signal Hill CA	213-595-0551
Elxor Associates Morris Plains NJ	201-299-1615
Enterprise Systems Corp Dover NH	603-742-7363
Fischer & Porter Co Warminster PA	215-674-6000
Fluke Mfg Co Inc John Everett WA	206-356-5400
Force Computers Inc Los Gatos CA	408-354-3410
The Foxboro Co Foxboro MA	617-543-8750
General Kinetics Inc Rockville MD	301-881-2044
Gimix Inc Chicago IL	312-927-5510
Heurikon Corp Madison WI	608-271-8700
Hewlett-Packard Palo Alto CA	415-857-8000
Honeycomb Systems Inc Biddeford ME	207-282-1521
Inconix Corp Norwell MA	617-865-1170
Industrial Computer Designs Inc	
Westlake Village CA	818-889-3179
Industrial Micro-Systems Inc Southington CT	203-628-4844
Ironics Inc Ithaca NY	607-277-4060
Kinetic Systems Corp Lockport IL	815-838-0005
Matrix Corp Indianapolis IN	317-248-2036
MDB Systems Inc Orange CA	714-998-6900
Megatel Computer Technologies Toronto ON	416-745-7214
Micro-Business Concepts Ventura CA	805-653-6660
Micro/sys Inc Glendale CA	818-244-4600
Miller Technology Inc Los Gatos CA	408-395-2032
Mizar Inc St Paul MN	612-224-8941
Moore Products Co Spring House PA	215-646-7400
Mostron Inc San Jose CA	408-946-1727
Motion Science Inc San Jose CA	408-287-0300
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
Multitech Electronics Inc Sunnyvale CA	408-773-8400
NES Inc Carpentersville IL	312-426-5900
Northwest Instrument Systems Inc	
Beaverton OR	503-690-1300
NPC Electronics New Brighton MN	612-633-4591
Octagon Systems Corp Westminster CO	303-426-8540
OmniByte Corp West Chicago IL	312-231-6880
Onset Computer Corp North Falmouth MA	617-563-2267
Paradyne Corp Largo FL	813-530-2000
Pro-Log Corp Monterey CA	408-372-4593
Rampart Instrument Div Hersey Prods Inc	
Spartanburg SC	803-578-1005
RI/Control Systems Div Research Inc	
Minneapolis MN	612-941-3300
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Rugid Computer Sacramento CA	916-344-5064
Serial Lab Products Inc Marlboro MA	617-481-1684
Simco/Ramic Corp Medford OR	503-776-9800
Small Business Computers of New England	
Amherst NH	603-673-0228
Solid Controls Inc Minneapolis MN	612-941-6110
Strawberry Tree Computers Sunnyvale CA	408-736-3083
Syscon International Inc South Bend IN	219-232-3900
Technology 80 Inc Minneapolis MN	612-542-9545
Techron Elkhart IN	219-294-8300
Tedelyne Microelectronics Los Angeles CA	213-870-9831
Transwave Corp Vanderbil PA	412-628-6370
U S Digital Los Alamitos CA	213-594-0094
VersaLogic Eugene OR	503-485-8575
Vesta Technology Wheat Ridge CO	303-422-8088
Watlow Electric Winona MN	507-454-5300
Waucho Controls Corp Chatsworth CA	818-998-8281
White Technology Inc Phoenix AZ	602-437-1520
Wintek Corp Lafayette IN	317-742-8428
Ziatech Corp San Luis Obispo CA	805-541-0488
Zoltech Corp Van Nuys CA	818-780-1800

Industrial Computer Designs Inc	
Westlake Village CA	818-889-3179
Ironics Inc Ithaca NY	607-277-4060
Lanier Business Products Inc Atlanta GA	404-329-8000
Matrix Corp Indianapolis IN	317-248-2036
MDB Systems Inc Orange CA	714-998-6900
Megatel Computer Technologies Toronto ON	416-745-7214
MetraByte Corp Stoughton MA	617-344-1990
Micro-Business Concepts Ventura CA	805-653-6660
Miller Technology Inc Los Gatos CA	408-395-2032
Mizar Inc St Paul MN	612-224-8941
National Instruments Austin TX	215-250-9119
Olektron Corp Webster MA	617-943-7440
Pickles & Trout Goleta CA	805-685-4641
Pro-Log Corp Monterey CA	408-372-4593
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Rugid Computer Sacramento CA	916-344-5064
Serial Lab Products Inc Marlboro MA	617-481-1684
STD Microsystems Palo Alto CA	415-327-8800
Techron Elkhart IN	219-294-8300
Tektronix Inc Beaverton OR	800-547-6711
Wavelet San Diego Inc San Diego CA	619-279-2200
Wintek Corp Lafayette IN	317-742-8428
Ziatech Corp San Luis Obispo CA	805-541-0488
Zoltech Corp Van Nuys CA	818-780-1800

COMPUTERS—MINI, GENERAL PURPOSE FOR OEMS

INTERNATIONAL INSTRUMENTATION INC

WESTLAKE VILLAGE CA	818-991-9614
ADAC Corporation Woburn MA	617-935-6668
American Computer Group Inc Boston MA	617-437-1100
Andromeda Systems Canoga Park CA	818-709-7600
Applicon Ann Arbor MI	313-995-6000
Applied Digital Data Systems Inc	
Hauptpage NY	516-231-5400
Bytronix Corp Fullerton CA	714-871-8763
Callan Data Systems Westlake Village CA	805-497-6837
Canaan Computer Corp Trumbull CT	203-372-8100
Celerity Computing San Diego CA	619-271-9940
Codar Technology Inc Longmont CO	303-776-0472
Computer Consoles Inc Rochester NY	716-482-5000
Computer Talk Inc Morrison CO	303-697-5485
Convergent Technologies San Jose CA	408-945-8877
CSP Inc Billerica MA	617-272-6020
Data General Corp Westboro MA	617-366-8911
Datapoint Corp San Antonio TX	512-699-7000
Digital Equipment Corp Maynard MA	617-897-5111
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
First Computer Corp Westmont IL	312-920-1050
Force Computers Inc Los Gatos CA	408-354-3410
General Digital Industries Inc Huntsville AL	205-837-8305
Gould Inc Computer Systems Div	
Ft Lauderdale FL	305-587-2900
Harris Corp Computer Systems Div	
Ft Lauderdale FL	305-974-1700
Hewlett-Packard Palo Alto CA	415-857-8000
Honeywell Information Systems Waltham MA	617-895-6000
International Instrumentation Inc	
Westlake Village CA	818-991-9614
Kinetic Systems Corp Lockport IL	815-838-0005
Lisp Machine Inc Los Angeles CA	213-642-1116
Masscomp Westford MA	617-692-6200
Mitsubishi Electronics America Inc	
Torrance CA	213-515-3993
Motorola Information Systems Cupertino CA	408-255-0900
Nixdorf Computer Corp No Reading MA	617-890-3600
NPC Electronics New Brighton MN	612-633-4591
Parallel Computers Santa Cruz CA	408-429-1338
Perkin-Elmer Oceanport NJ	800-631-2154
Perq Systems Corp Pittsburgh PA	412-355-0900
Perfec Computer Corp Irvine CA	714-860-0488
Prime Computer Inc Natick MA	617-655-8000
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Sakata USA Corp Elk Grove Village IL	312-593-3211
Stratus Computer Inc Marlboro MA	617-460-2000
Tandem Computers Inc Cupertino CA	408-725-6000
Unitronix Corp Somerville NJ	201-231-9400
Xerox Corp Business Sys Group	
Rochester NY	716-423-3539
XYZ Electronics Inc Indianapolis IN	317-335-2128
Zoltech Corp Van Nuys CA	818-780-1800

Intermetrics Inc Cambridge MA	617-661-184
Kinetic Systems Corp Lockport IL	815-838-0005
Lisp Machine Inc Los Angeles CA	213-642-1116
Masscomp Westford MA	617-692-6200
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
NPC Electronics New Brighton MN	612-633-4591
Parallel Computers Santa Cruz CA	408-429-1338
Perkin-Elmer Oceanport NJ	800-631-2154
RI/Control Systems Div Research Inc	
Minneapolis MN	612-941-3300
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Serial Lab Products Inc Marlboro MA	617-481-1684
Simco/Ramic Corp Medford OR	503-776-9800
Stratus Computer Inc Marlboro MA	617-460-2000
Streeter Richardson Div Grayslake IL	312-223-4840
Unitronix Corp Somerville NJ	201-231-9400
Zoltech Corp Van Nuys CA	818-780-1800

COMPUTERS—MINI, TEST SYSTEM CONTROL ONLY

Acrosystems Corp Beverly MA	617-927-8888
American Computer Group Inc Boston MA	617-437-1100
Anritsu Corp Minato-ku Tokyo Japan	03-446-111
Axis Inc San Diego CA	619-560-7775
California Data Corp Newbury Park CA	805-498-3663
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Electronic Solutions San Diego CA	614-292-024
Fluke Mfg Co Inc John Everett WA	206-356-5400
Hewlett-Packard Palo Alto CA	415-857-8000
ITT PowerSystems Corp Gallon OH	419-468-8100
Parallel Computers Santa Cruz CA	408-429-1338
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Serial Lab Products Inc Marlboro MA	617-481-1684

COMPUTERS—NUMERICAL ANALYSIS (FOURIER, ARRAY & OTHER SPECIAL DIGITAL TYPES)

Analogic Corp Peabody MA	617-532-5666
Applied Dynamics Intl Ann Arbor MI	313-973-1300
CSP Inc Billerica MA	617-272-6020
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Floating Point Systems Portland OR	503-641-3111
Harris Corp Computer Systems Div	
Ft Lauderdale FL	305-974-1700
Marinco Computer Products San Diego CA	619-587-0460
Masscomp Westford MA	617-692-6200
Quay Corp Eatontown NJ	201-542-7334
Shiva Multisystems Corp Menlo Park CA	415-321-2355
Signal Processing Systems Inc Waltham MA	617-891-0400
Carl Zeiss Inc Thornwood NY	914-747-1800

COMPUTERS—SINGLE BOARD

INTERNATIONAL INSTRUMENTATION INC

WESTLAKE VILLAGE CA	818-991-9614
ADAC Corporation Woburn MA	617-935-6668
Allen Systems Columbus OH	614-488-7112
Ampro Computers Inc Mtn View CA	415-962-0233
Anascope Corp Wakefield MA	617-246-3300
Antona Corp W Los Angeles CA	213-473-8999
Applied Micro Technology Inc Tucson AZ	602-622-8600
Avatar Technologies Hopington MA	617-435-6871
BICC-Vero Electronics Inc Trumbull CT	203-372-0003
Comark Corp Medfield MA	617-359-8166
Computer Dynamics Inc Greer SC	803-877-7474
Creative Micro Systems Los Alamitos CA	213-943-248
Datatron Labs Inc Sussex NJ	914-856-4313
Digital Equipment Corp Maynard MA	617-897-5111
Diversified Technology an Ergon Co	
Ridgeland MS	601-856-4121
Dy-4 Systems Ottawa ON	613-728-3717
Eder Industries Oak Creek WI	414-761-0400
Emulex Corp Costa Mesa CA	714-662-5600
Enterprise Systems Corp Dover NH	603-742-7363
Everett/Charles Marketing Services Inc	
Fontana CA	714-899-2522
Force Computers Inc Los Gatos CA	408-354-3410
General Micro Systems Inc Montclair CA	714-625-5475
Gimix Inc Chicago IL	312-927-5511
Heurikon Corp Madison WI	608-271-8700
Hewlett-Packard Palo Alto CA	415-857-8000
International Data Technology	
Ft Lauderdale FL	305-587-6822
International Instrumentation Inc	
Westlake Village CA	818-991-9614
Kinetic Systems Corp Lockport IL	815-838-0005
Logical Design Group Inc Raleigh NC	919-834-8882
Magnum Opus Custom Electronic Engrg	
Iselin NJ	201-283-4922
MDB Systems Inc Orange CA	714-998-6900
Mesa Technology Corp Gathersburg MD	800-638-2003
Microbar Systems Inc Sunnyvale CA	408-720-9300
Mizar Inc St Paul MN	612-224-8941
Mostron Inc San Jose CA	408-946-1722
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
Multitech Electronics Inc Sunnyvale CA	408-773-8400
Northern Precision Labs Inc Fairfield NJ	201-227-4800
OmniByte Corp West Chicago IL	312-231-6880
Pacific Microcomputers Inc Cardiff CA	619-436-864
Performance Technologies Inc	
East Rochester NY	716-586-6722

COMPUTERS—MICRO, TEST SYSTEM CONTROL ONLY (INCL IEEE-488 CONTROLLER ONLY)

B-G INSTRUMENTS INC ALTA LOMA CA	714-989-4802
Alpha Merics Corp Chatsworth CA	818-709-1155
Anascope Corp Wakefield MA	617-246-3300
Applied Micro Technology Inc Tucson AZ	602-622-8600
A-Systems Inc Charlottesville VA	804-295-7200
Audio Precision Inc Beaverton OR	503-297-4837
Axis Inc San Diego CA	619-560-7737
Axonix Corp Burlington MA	617-273-5550
B-G Instruments Inc Alta Loma CA	714-989-4802
BICC-Vero Electronics Inc Trumbull CT	203-372-0038
Colorado Data Systems Inc Englewood CO	800-237-2831
Computer System Assoc Inc San Diego CA	619-566-3911
Cromemco Inc Mtn View CA	415-964-7400
Data General Corp Westboro MA	617-366-8911
Dianachart Inc Rockaway NJ	201-625-2299
E-H Electronics Inc Fremont CA	415-651-2340
Electronic Solutions San Diego CA	614-292-0242
Epro Corporation San Jose CA	408-262-3912
Fluke Mfg Co Inc John Everett WA	206-356-5400
Force Computers Inc Los Gatos CA	408-354-3410
General Micro Systems Inc Montclair CA	714-625-5475
Heurikon Corp Madison WI	608-271-8700
Hewlett-Packard Palo Alto CA	415-857-8000
ICS Electronics Corp San Jose CA	408-263-4844

COMPUTERS—MINI, INSTRUMENTATION & CONTROL (EXCEPT TEST SYSTEM CONTROL ONLY)

Acromag Inc Wixom MI	313-624-1541
Acrosystems Corp Beverly MA	617-927-8880
ADAC Corporation Woburn MA	617-935-6668
American Computer Group Inc Boston MA	617-437-1100
Antona Corp W Los Angeles CA	213-473-8995
Bailey Controls Co Wickliffe OH	216-585-8500
B & F Instruments Div FX Sys Corp	
Kingston NY	914-338-0515
Bristol Babcock Inc Waterbury CT	203-575-3000
Datacom Inc Fort Walton Beach FL	904-244-6121
Data General Corp Westboro MA	617-366-8911
Daytronic Corp Miamisburg OH	513-866-3300
Digital Equipment Corp Maynard MA	617-897-5111
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Electronic Solutions San Diego CA	614-292-0242
Fluke Mfg Co Inc John Everett WA	206-356-5400
Harris Corp Computer Systems Div	
Ft Lauderdale FL	305-974-1700
Hewlett-Packard Palo Alto CA	415-857-8000

Arkin-Elmer Oceanport NJ.....	800-631-2154
Essey Microsystems Pearl River NY.....	914-735-4661
Ray Corp Eatontown NJ.....	201-542-7340
igid Computer Sacramento CA.....	916-344-5064
chology 80 Inc Minneapolis MN.....	612-542-9545
edyne Microelectronics Los Angeles CA.....	213-870-9831
sta Technology Wheat Ridge CO.....	303-422-8088
tech Corp San Luis Obispo CA.....	805-541-0488

COMPUTER SERVICES—DATA PROCESSING (EXCEPT TIME SHARING)

ronautics Corp of America Milwaukee WI.....	414-447-8200
ston Systems Office Inc Waltham MA.....	617-894-7800
ifornia Data Corp Newbury Park CA.....	805-498-3651
puter Sciences Corp El Segundo CA.....	213-615-0311
ble Corp San Diego CA.....	619-277-6780
ankel Engineering Labs Inc Reading PA.....	215-373-5205
neral Kinetics Inc Rockville MD.....	301-881-2044
Harris Corp Govt Support Sys Div.....	
Syosset NY.....	516-364-0400
rdorf Computer Corp No Reading MA.....	617-890-3600
ean Technology Inc Burbank CA.....	213-849-7111
adyne Corp Largo FL.....	813-530-2000
ntek Columbia MD.....	301-730-2575
gnation Inc Lexington MA.....	617-861-1500
nc/Ramic Corp Medford OR.....	503-776-9800
erry Corp Aerospace & Marine Group.....	
Phoenix AZ.....	602-869-2311
omson CSF Inc White Plains NY.....	914-694-4450
re Graphics Inc Farmingdale NY.....	516-293-1525

COMPUTER SERVICES—INSTALLATION & MAINTENANCE

plied Dynamics Intl Ann Arbor MI.....	313-973-1300
ata General Corp Westboro MA.....	617-366-8911
igital Equipment Corp Maynard MA.....	617-897-5111
IC Systems Santa Clara CA.....	408-727-4444
icrohome Ltd Kitchener ON.....	519-744-7111
ctronic Associates Inc.....	
West Long Branch NJ.....	201-229-1100
Harris Corp Computer Systems Div.....	
Ft Lauderdale FL.....	305-974-1700
neywell Information Systems Waltham MA.....	617-895-6000
ernational Data Technology.....	
Ft Lauderdale FL.....	305-587-6823
rdorf Computer Corp No Reading MA.....	617-890-3600
adyne Corp Largo FL.....	813-530-2000
me Computer Inc Natick MA.....	617-655-8000
ay Corp Eatontown NJ.....	201-542-7340
SA Service Co-Automated Business Commun Svcs.....	
erry Hill NJ.....	609-338-4343
ran Digital Atascadero CA.....	805-466-3209
nc/Ramic Corp Medford OR.....	503-776-9800

COMPUTER SERVICES—MACHINE TIME RENTAL (EXCEPT TIME SHARING)

is Inc San Diego CA.....	619-560-7737
ston Systems Office Inc Waltham MA.....	617-894-7800
ital Equipment Corp Maynard MA.....	617-897-5111
ctronic Associates Inc.....	
West Long Branch NJ.....	201-229-1100
Harris Corp Govt Support Sys Div.....	
Syosset NY.....	516-364-0400
rdorf Computer Corp No Reading MA.....	617-890-3600
ran Digital Atascadero CA.....	805-466-3209
ld State Testing Inc Burlington MA.....	617-272-0972

COMPUTER SERVICES—PROGRAMMING

See Software Listings

COMPUTER SERVICES—TIME SHARING

roject Electro Systems Co Azusa CA.....	818-334-6211
ston Systems Office Inc Waltham MA.....	617-894-7800
puter Sciences Corp El Segundo CA.....	213-615-0311
ital Equipment Corp Maynard MA.....	617-897-5111
go Electronic Services Inc Eden Prairie MN.....	612-941-9470
nel Engineering Labs Inc Reading PA.....	215-373-5205
Harris Corp Govt Support Sys Div.....	
Syosset NY.....	516-364-0400

COMPUTER STORAGE SYSTEMS CONTROLLERS

See Controllers

COMPUTER STORAGE SYSTEMS—MAGNETIC DRUM

ris Corp Computer Systems Div.....	
Ft Lauderdale FL.....	305-974-1700
hewlett-Packard Palo Alto CA.....	415-857-8000
tronix Corp Somerville NJ.....	201-231-9400

COMPUTER STORAGE SYSTEMS—MAGNETIC FLEXIBLE DISK

INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA.....	818-991-9614
American Computer Group Inc Boston MA.....	617-437-1100
Andromeda Systems Canoga Park CA.....	818-709-7600
Applied Micro Technology Inc Tucson AZ.....	602-622-8605
Aydin Controls Ft Washington PA.....	215-542-7800
Bering Industries Inc Fremont CA.....	415-651-3300
Canon USA Inc Disk Drive Div.....	
Lake Success NY.....	516-488-6700
Chrislin Industries Inc Westlake Village CA.....	818-991-2254
Comark Corp Medfield MA.....	617-359-8161
Data General Corp Westboro MA.....	617-366-8911
Datapoint Corp San Antonio TX.....	512-699-7000
Digital Equipment Corp Maynard MA.....	617-897-5111
ECO Instruments Div Sea Data Corp.....	
Newton MA.....	617-964-8360
Everett/Charles Marketing Services Inc.....	
Fontana CA.....	714-899-2521
First Computer Corp Westmont IL.....	312-920-1050
Harris Corp Computer Systems Div.....	
Ft Lauderdale FL.....	305-974-1700
Hewlett-Packard Palo Alto CA.....	415-857-8000
Infotek Systems Anaheim CA.....	714-956-9300
International Instrumentation Inc	
Westlake Village CA.....	818-991-9614
Iomega Corp Ogden UT.....	801-399-2171
Micropolis Corp Chatsworth CA.....	818-709-3300
Okidata Mount Laurel NJ.....	609-235-2600
Omni Resources Corp Millbury MA.....	617-865-4451
Qualogy Inc San Jose CA.....	408-946-5800
Recoton Corp Long Island City NY.....	718-392-6442
SCI Systems Inc Huntsville AL.....	205-882-4800
Tandon Chatsworth CA.....	818-993-6644
Unitronix Corp Somerville NJ.....	201-231-9400
Zoltech Corp Van Nuys CA.....	818-780-1800

COMPUTER STORAGE SYSTEMS—MAGNETIC RIGID DISK, LARGE COMPUTER

INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA.....	818-991-9614
Alpha Data Inc Chatsworth CA.....	818-882-6500
American Computer Group Inc Boston MA.....	617-437-1100
Andromeda Systems Canoga Park CA.....	818-709-7600
Bering Industries Inc Fremont CA.....	415-651-3300
Ciprico Inc Plymouth MN.....	612-559-2034
Data General Corp Westboro MA.....	617-366-8911
Datapoint Corp San Antonio TX.....	512-699-7000
Digital Equipment Corp Maynard MA.....	617-897-5111
Disc Tech One Inc Santa Barbara.....	805-964-3535
ECO Instruments Div Sea Data Corp.....	
Newton MA.....	617-964-8360
Emulex Corp Costa Mesa CA.....	714-662-5600
Fujitsu America Storage Prods Div.....	
San Jose CA.....	408-946-8777
Harris Corp Computer Systems Div.....	
Ft Lauderdale FL.....	305-974-1700
Hewlett-Packard Palo Alto CA.....	415-857-8000
International Data Technology	
Ft Lauderdale FL.....	305-587-6823
International Instrumentation Inc	
Westlake Village CA.....	818-991-9614
Mesa Technology Corp Gaithersburg MD.....	800-638-2039
Micropolis Corp Chatsworth CA.....	818-709-3300
Pertec Peripherals Corp Chatsworth CA.....	818-882-0030
Rodime Inc Boca Raton FL.....	714-770-3085
Rolm Corp—Mil-Spec Computers.....	
San Jose CA.....	408-942-8000
Zoltech Corp Van Nuys CA.....	818-780-1800

COMPUTER STORAGE SYSTEMS—MAGNETIC RIGID DISK, SMALL COMPUTER (INCL COMPACT WINCHESTERS WITH BACKUP DRIVES)

INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA.....	818-991-9614
Alloy Computer Products Inc Framingham MA.....	617-875-6100
Alpha Data Inc Chatsworth CA.....	818-882-6500
American Computer Group Inc Boston MA.....	617-437-1100
Ampex Corp Redwood City CA.....	415-367-2011
Andromeda Systems Canoga Park CA.....	818-709-7600
Apple Computer Inc Cupertino CA.....	408-996-1010
Applied Micro Technology Inc Tucson AZ.....	602-622-8605
Bering Industries Inc Fremont CA.....	415-651-3300
Ciprico Inc Plymouth MN.....	612-559-2034
Comark Corp Medfield MA.....	617-359-8161
Computer System Assoc Inc San Diego CA.....	619-566-3911
Creative Micro Systems Los Alamitos CA.....	213-493-2484
Data General Corp Westboro MA.....	617-366-8911
Datapoint Corp San Antonio TX.....	512-699-7000
Digital Equipment Corp Maynard MA.....	617-897-5111
Disc Tech One Inc Santa Barbara.....	805-964-3535
ECO Instruments Div Sea Data Corp.....	
Newton MA.....	617-964-8360
Emulex Corp Costa Mesa CA.....	714-662-5600
Everett/Charles Marketing Services Inc.....	
Fontana CA.....	714-899-2521
Force Computers Inc Los Gatos CA.....	408-354-3410
Fujitsu America Storage Prods Div.....	
San Jose CA.....	408-946-8777
Harris Corp Computer Systems Div.....	
Ft Lauderdale FL.....	305-974-1700

Hewlett-Packard Palo Alto CA.....	415-857-8000
Honeywell Information Systems Waltham MA.....	617-895-6000
International Data Technology	
Ft Lauderdale FL.....	305-587-6823
International Instrumentation Inc	
Westlake Village CA.....	818-991-9614
Iomega Corp Ogden UT.....	801-399-2171
Kinetic Systems Corp Lockport IL.....	815-838-0005
Kustom Electronics Inc Lenexa KS.....	913-492-1400
LaPine Technology Milpitas CA.....	408-262-7077
Mesa Technology Corp Gaithersburg MD.....	800-638-2039
Micropolis Corp Chatsworth CA.....	818-709-3300
Midpoint Corp Melville NY.....	516-420-0200
Prime Computer Inc Natick MA.....	617-655-8000
Quadram Corp Norcross GA.....	404-923-6666
Qualogy Inc San Jose CA.....	408-946-5800
Quay Corp Eatontown NJ.....	201-542-7340
Rodime Inc Boca Raton FL.....	714-770-3085
Rolm Corp—Mil-Spec Computers.....	
San Jose CA.....	408-942-8000
SCI Systems Inc Huntsville AL.....	205-882-4800
Sperry Corp Aerospace & Marine Group.....	
Phoenix AZ.....	602-869-2311
Tandon Chatsworth CA.....	818-993-6644
Unitronix Corp Somerville NJ.....	201-231-9400
Winchester Systems Inc Woburn MA.....	617-933-8500
Zoltech Corp Van Nuys CA.....	818-780-1800

COMPUTER STORAGE SYSTEMS—MAGNETIC TAPE CARTRIDGE

See Also Magnetic Tape Recorders—Digital Cartridge & Cassette)

INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA.....	818-991-9614
ADIC Redmond WA.....	206-881-8004
Alloy Computer Products Inc Framingham MA.....	617-875-6100
American Computer Group Inc Boston MA.....	617-437-1100
Andromeda Systems Canoga Park CA.....	818-709-7600
Ciprico Inc Plymouth MN.....	612-559-2034
Data General Corp Westboro MA.....	617-366-8911
Digital Equipment Corp Maynard MA.....	617-897-5111
ECO Instruments Div Sea Data Corp.....	
Newton MA.....	617-964-8360
Everett/Charles Marketing Services Inc.....	
Fontana CA.....	714-899-2521
First Computer Corp Westmont IL.....	312-920-1050
Fujitsu America Storage Prods Div.....	
San Jose CA.....	408-946-8777
Harris Corp Computer Systems Div.....	
Ft Lauderdale FL.....	305-974-1700
Hewlett-Packard Palo Alto CA.....	415-857-8000
International Instrumentation Inc	
Westlake Village CA.....	818-991-9614
Mesa Technology Corp Gaithersburg MD.....	800-638-2039
Prime Computer Inc Natick MA.....	617-655-8000
Qualogy Inc San Jose CA.....	408-946-5800
Raymond Engineering Inc Middletown CT.....	203-632-1000
SCI Systems Inc Huntsville AL.....	205-882-4800
Unitronix Corp Somerville NJ.....	201-231-9400
Zoltech Corp Van Nuys CA.....	818-780-1800

COMPUTER STORAGE SYSTEMS—MAGNETIC TAPE REEL

INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA.....	818-991-9614
Alloy Computer Products Inc Framingham MA.....	617-875-6100
American Computer Group Inc Boston MA.....	617-437-1100
Ciprico Inc Plymouth MN.....	612-559-2034
Comark Corp Medfield MA.....	617-359-8161
Data General Corp Westboro MA.....	617-366-8911
Digital Equipment Corp Maynard MA.....	617-897-5111
First Computer Corp Westmont IL.....	312-920-1050
Fujitsu America Storage Prods Div.....	
San Jose CA.....	408-946-8777
Harris Corp Computer Systems Div.....	
Ft Lauderdale FL.....	305-974-1700
Hewlett-Packard Palo Alto CA.....	415-857-8000
International Instrumentation Inc	
Westlake Village CA.....	818-991-9614
Liken Industries Tustin CA.....	714-832-9229
Mesa Technology Corp Gaithersburg MD.....	800-638-2039
Midpoint Corp Melville NY.....	516-420-0200
Pertec Peripherals Corp Chatsworth CA.....	818-882-0030
Telebyte Technology Inc Greenlawn NY.....	516-423-3232
Unitronix Corp Somerville NJ.....	201-231-9400
Zoltech Corp Van Nuys CA.....	818-780-1800

COMPUTER STORAGE SYSTEMS—MAIN MEMORY

See Memories

COMPUTER STORAGE SYSTEMS—OPTOELECTRONIC

Data-Sud/Systems US Inc Tempe AZ.....	602-438-1492
Hewlett-Packard Palo Alto CA.....	415-857-8000
Simco/Ramic Corp Medford OR.....	503-776-9800

COMPUTER TERMINALS

See Terminals, Data

CONCENTRATORS SEE MULTIPLEXERS & CONCENTRATORS

CONDUCTIVITY METERS

See Meters—Conductivity

CONDUCTORS—MATERIALS

See Materials Reference List for Desired Type

CONES—SPEAKER

See Speaker Cones

CONNECTOR ADAPTERS—COAXIAL

BIRD ELECTRONIC CORP CLEVELAND (SOLON) OH	216-248-1200
CONCORD ELECTRONICS CORP NEW YORK NY	212-777-6571
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
MURATA ERIE NORTH AMERICA INC SMYRNA GA	404-436-1300
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips TROMPETER ELECTRONICS INC WESTLAKE VILLAGE CA	818-707-2020
WISE COMPONENTS INC GREENWICH CT	203-531-4880
ADC Telecommunications Minneapolis MN	612-835-6800
AID Electronics Inc Irving TX	214-790-4761
Air Electro Supply Inc Van Nuys CA	213-988-4400
Alpha Wire Corp Elizabeth NJ	201-925-8000
Amphenol Products Lisle IL	312-983-3500
Applied Engineering Products New Haven CT	203-387-5282
Argent Industries Inc Englewood OH	513-836-8633
Associates Electronics & Mfg Corp Upper Montclair NJ	201-783-7800
Astrolab Inc Warren NJ	201-560-3800
Augat Inc Attleboro MA	617-222-2202
Automatic Connector Inc Commack NY	516-543-5000
Auto-Swage Products Inc Shelton CT	203-929-1401
Bird Electronic Corp Cleveland (Solon) OH	216-248-1200
Blonder-Tongue Labs Inc Old Bridge NJ	201-679-4000
BTC Electronic Components Inc Old Bridge NJ	201-536-8000
Cablewave Sys Div Celwave Sys Inc North Haven CT	203-239-3311
Cambridge Products Corp Bloomfield CT	203-243-1761
Caton Connector Corp Kingston MA	617-585-4315
Component Mfg Svc Inc West Bridgewater MA	617-580-0111
Computer Cable & Products Inc Farmingdale NY	516-293-1610
Concord Electronics Corp New York NY	212-777-6571
Connector Systems Div BIW Santa Rosa CA	707-523-2300
Crouse-Hinds Co Syracuse NY	315-477-7000
Decibel Products Inc Dallas TX	214-631-0310
Delta Electronics Inc Alexandria VA	703-354-3350
Diamond Antenna & Microwave Corp Winchester MA	617-729-5500
Digital Equipment Corp Maynard MA	617-897-5111
Ercona Corp Port Jefferson Sta NY	516-331-5500
Excelan Inc San Jose CA	408-434-2300
GC Electronics Div Household Intl Rockford IL	815-968-9661
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Gries/Dynacast Div Coats & Clark Inc Yorktown Hts NY	914-633-8600
Hirose Electric USA Inc Chatsworth CA	818-709-1247
ITT Cannon Fountain Valley CA	714-557-4700
ITT Pomona Electronics Pomona CA	714-623-3463
King Wire & Cable Corp Jamaica NY	718-657-4422
Kings Electronics Co Inc Tuckahoe NY	914-793-5000
Kulka Smith Inc Manassan NJ	201-223-9400
Landmark Electronics Ltd Plainview NY	516-293-7441
Lemo U S A Inc Santa Rosa CA	707-578-8811
M/A COM Omni Spectra Inc Merrimack NH	603-424-4111
Malco Div Microdot Inc Montgomeryville PA	215-699-5373
Mauzy Microwave Corp Cucamonga CA	714-987-4715
Micro-Coax Components Inc Collegeville PA	215-489-3700
Micro Mode Products Inc El Cajon CA	619-449-3844
Microtech Inc Boothwyn PA	215-459-3566
Microwave Engineering Corp North Andover MA	617-685-2776
Murata Erie North America Inc Smyrna GA	404-436-1300
The Narda Microwave Corp Hauppauge NY	516-231-1700
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Onidea Electronic Mfg Inc Meadville PA	814-336-2125
Ora Electronics Div Alliance Rsch Corp Chatsworth CA	818-701-5848
Panduit Corp Tinley Park IL	312-532-1800
Pasternack Enterprises Irvine CA	714-854-8500
Philmore Mfg Co Inc Inwood NY	516-239-6161
Ross Co Milton Southampton PA	215-355-0200
Rowe Industries Inc Toledo OH	419-729-9761
Sager Hingham MA	617-749-6700
Sealectro Corp Trumbull CT	203-372-4118
Soliton Microwave Connector Div Port Salerno FL	305-287-5000
SPC Technology Bensenville IL	312-766-6711
Support Systems Intl Cables & Access Div Richmond CA	415-234-9090
Switchcraft Inc Chicago IL	312-792-2700
Tektronix Inc Beaverton OR	800-547-6711
Teletype Technology Inc Greenlawn NY	516-423-3232
Trompeter Electronics Inc Westlake Village CA	818-707-2020
Tru-Connector Corp Peabody MA	617-532-0775
United Microwave Products Inc Torrance CA	213-320-1244
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Microwave Inc Wakefield MA	617-245-4472

Wall-Able Mfg Corp Chicago IL	312-440-1000
Weinschel Engineering Co Inc Gaithersburg MD	301-948-3434
Wise Components Inc Greenwich CT	203-531-4880
Workman Electronic Products Inc Sarasota FL	800-237-6666

CONNECTOR ADAPTERS—NONCOAXIAL

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CONNECTOR CORP CHICAGO IL	312-539-3108
ADV PG 125 SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips TROMPETER ELECTRONICS INC WESTLAKE VILLAGE CA	818-707-2020
ADV PG 118 ADC Telecommunications Minneapolis MN	612-835-6800
AID Electronics Inc Irving TX	214-790-4761
Air Electro Supply Inc Van Nuys CA	213-988-4400
Amphenol Products Lisle IL	312-983-3500
Argent Industries Inc Englewood OH	513-836-8633
Associates Electronics & Mfg Corp Upper Montclair NJ	201-783-7800
Associated Electronics/3M Painesville OH	216-354-0925
Astrolab Inc Warren NJ	201-560-3800
Breeze-Illinois Inc Peoria IL	309-695-2511
BTC Electronic Components Inc Old Bridge NJ	201-536-8000
Caton Connector Corp Kingston MA	617-585-4315
Component Mfg Svc Inc West Bridgewater MA	617-580-0111
Computer Cable & Products Inc Farmingdale NY	516-293-1610
Concord Electronics Corp New York NY	212-777-6571
Connector Corp Chicago IL	312-539-3108
Connector Systems Div BIW Santa Rosa CA	707-523-2300
Crouse-Hinds Co Syracuse NY	315-477-7000
CTS Fabri-Tek Inc Eden Prairie MN	612-941-9100
Emulation Technology Inc Sunnyvale CA	408-243-5209
Ercona Corp Port Jefferson Sta NY	516-331-5500
GC Electronics Div Household Intl Rockford IL	815-968-9661
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Glenair Inc Glendale CA	818-247-6000
Icore International Inc Sunnyvale CA	408-732-5400
ITT Cannon Fountain Valley CA	714-557-4700
ITT Pomona Electronics Pomona CA	714-623-3463
Kings Electronics Co Inc Tuckahoe NY	914-793-5000
Kulka Smith Inc Manassan NJ	201-223-9400
Lemo U S A Inc Santa Rosa CA	707-578-8811
Magnum Electric Erie MI	313-488-2555
Malco Div Microdot Inc Montgomeryville PA	215-699-5373
Microtech Inc Boothwyn PA	215-459-3566
Midland-Ross Corp Electronic Connector Div Cambridge MA	617-491-5400
The Narda Microwave Corp Hauppauge NY	516-231-1700
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Ora Electronics Div Alliance Rsch Corp Chatsworth CA	818-701-5848
Philmore Mfg Co Inc Inwood NY	516-239-6161
Phonix Terminal Blocks Inc Harrisburg PA	717-944-1300
Raychem Corp Menlo Park CA	415-361-3333
Rowe Industries Inc Toledo OH	419-729-9761
Sager Hingham MA	617-749-6700
Schroff Inc Warwick RI	401-732-3770
SOS Lighting Devices Div MEMCO Philadelphia PA	215-423-7077
Sunkbank Electronics Inc Paso Robles CA	805-238-2840
Support Systems Intl Cables & Access Div Richmond CA	415-234-9090
Switchcraft Inc Chicago IL	312-792-2700
Teletype Technology Inc Greenlawn NY	516-423-3232
Trompeter Electronics Inc Westlake Village CA	818-707-2020
TRW Connector Div Elk Grove Village IL	312-981-6000
Ultra Products Manitou Beach MI	517-547-3161
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Microwave Inc Wakefield MA	617-245-4472

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ELECTRICAL PRODUCTS SALES CORP SOUTH HACKENSACK NJ	201-488-9000
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ADV PGS Green Pages/Footstrips Air Electro Supply Inc Van Nuys CA	213-988-4400
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Argent Industries Inc Englewood OH	513-836-8633
Associates Electronics & Mfg Corp Upper Montclair NJ	201-783-7800
Astrolab Inc Warren NJ	201-560-3800
Breeze-Illinois Inc Peoria IL	309-695-2511
BTC Electronic Components Inc Old Bridge NJ	201-536-8000
Calmark Corp San Gabriel CA	818-287-0451
Caton Connector Corp Kingston MA	617-585-4315
Circuit Assembly Corp Irvine CA	714-855-7887
CTS Fabri-Tek Inc Eden Prairie MN	612-941-9100
Electrical Products Sales Corp South Hackensack NJ	201-488-9000
G & H Technology Inc Camarillo CA	805-484-0543
Glenair Inc Glendale CA	818-247-6000
Hirose Electric USA Inc Chatsworth CA	818-709-1247
Hobson Brothers Inc Chicago IL	312-283-3600
Ideal Industries Inc Sycamore IL	815-895-5181
ITT Cannon Fountain Valley CA	714-557-4700
ITT Pomona Electronics Pomona CA	714-623-3463
Jettron Products Inc East Hanover NJ	201-887-0571
Kings Electronics Co Inc Tuckahoe NY	914-793-5000
Landmark Electronics Ltd Plainview NY	516-293-7441

Lemo U S A Inc Santa Rosa CA	707-578-8811
M/A COM Omni Spectra Inc Merrimack NH	603-424-4111
Malco Div Microdot Inc Montgomeryville PA	215-699-5373
Micro Mode Products Inc El Cajon CA	619-449-3844
Midland-Ross Corp Electronic Connector Div Cambridge MA	617-491-5400
National Tel-Tronics Div Technodyne Inc Meadville PA	814-724-6444
Ross Co Milton Southampton PA	215-355-0200
Rowe Industries Inc Toledo OH	419-729-9761
Sager Hingham MA	617-749-6700
Sinclair & Rush Inc St Louis MO	314-481-1241
Sjoberg & Son Inc Cranston RI	401-461-8222
Sunkbank Electronics Inc Paso Robles CA	805-238-2840
Tru-Connector Corp Peabody MA	617-532-0775
TRW Connector Div Elk Grove Village IL	312-981-6000
Ultra Products Manitou Beach MI	517-547-3161
United Microwave Products Inc Torrance CA	213-320-1244

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AEG CORPORATION SOMERVILLE NJ	201-722-9800
ADV PG 117 AEG Corporation Somerville NJ	201-722-9800
Alden Products Co Brockton MA	617-583-0101
American Plastics Co Chicago IL	312-722-7777
Argent Industries Inc Englewood OH	513-836-8633
Associates Electronics & Mfg Corp Upper Montclair NJ	201-783-7800
Caton Connector Corp Kingston MA	617-585-4315
Hobson Brothers Inc Chicago IL	312-283-3600
Impex Div National Lock Corp Crawfordsville IN	317-362-0800
Industrial Electronic Hardware Corp New York NY	212-677-1800
Jettron Products Inc East Hanover NJ	201-887-0571
Landmark Electronics Ltd Plainview NY	516-293-7441
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Rowe Industries Inc Toledo OH	419-729-9761
Workman Electronic Products Inc Sarasota FL	800-237-6666

CONNECTORS—ANTENNA

KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TROMPETER ELECTRONICS INC WESTLAKE VILLAGE CA	818-707-2020
ADV PG 118 Accurate Electronics Corp Elyria OH	216-365-1212
Amphenol Products Lisle IL	312-983-3500
Andrew Corp Orland Park IL	312-349-3351
Antenna Inc Div Celwave Cleveland OH	216-464-7700
Applied Engineering Products New Haven CT	203-387-5282
Associates Electronics & Mfg Corp Upper Montclair NJ	201-783-7800
Astrolab Inc Warren NJ	201-560-3800
Auto-Swage Products Inc Shelton CT	203-929-1401
Cambridge Products Corp Bloomfield CT	203-243-1761
Component Mfg Svc Inc West Bridgewater MA	617-580-0111
Decibel Products Inc Dallas TX	214-631-0310
Eastern Microwave Corp Woburn MA	617-935-8661
Elco Corp Newport Beach CA	714-476-0661
Electronic Essentials Inc Woodside NY	718-898-8831
Ercona Corp Port Jefferson Sta NY	516-331-5500
GC Electronics Div Household Intl Rockford IL	815-968-9661
Industrial Electronic Hardware Corp New York NY	212-677-1800
ITT Cannon Fountain Valley CA	714-557-4700
Johnson Co E F/Components Div Waseca MN	507-835-6212
King Wire & Cable Corp Jamaica NY	718-657-4422
Kings Electronics Co Inc Tuckahoe NY	914-793-5000
Kulka Smith Inc Manassan NJ	201-223-9400
Landmark Electronics Ltd Plainview NY	516-293-7441
Malco Div Microdot Inc Montgomeryville PA	215-699-5373
Micro-Coax Components Inc Collegeville PA	215-489-3700
Micro Mode Products Inc El Cajon CA	619-449-3844
National Tel-Tronics Div Technodyne Inc Meadville PA	814-724-6444
O'Brien Inc D G Seabrook NH	603-474-5500
Philmore Mfg Co Inc Inwood NY	516-239-6161
Rowe Industries Inc Toledo OH	419-729-9761
Sealectro Corp Trumbull CT	203-372-4118
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sitco Antennas Portland OR	503-253-2000
Sjoberg & Son Inc Cranston RI	401-461-8222
Trompeter Electronics Inc Westlake Village CA	818-707-2020
Tru-Connector Corp Peabody MA	617-532-0775
Wall-Able Mfg Corp Chicago IL	312-440-1000

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KEYSTONE ELECTRONICS CORP NEW YORK NY	212-475-4600
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
ADC Telecommunications Minneapolis MN	612-835-6800
Air Electro Supply Inc Van Nuys CA	213-988-4400
Amphenol Products Lisle IL	312-983-3500
BTC Electronic Components Inc Old Bridge NJ	201-536-8000
Component Mfg Svc Inc West Bridgewater MA	617-580-0111
Cord Electronics Inc Westbury NY	516-935-3644
Ercona Corp Port Jefferson Sta NY	516-331-5500
GC Electronics Div Household Intl Rockford IL	815-968-9661

Micro Electric USA Inc Chatsworth CA.....	818-709-1247
TT Cannon Fountain Valley CA.....	714-557-4700
TT Pomona Electronics Pomona CA.....	714-623-3463
Keystone Electronics Corp New York NY.....	212-475-4600
King Wire & Cable Corp Jamaica NY.....	718-657-4422
Kings Electronics Co Inc Tuckahoe NY.....	914-793-5000
Kulka Smith Inc Manasquan NJ.....	201-223-9400
Landmark Electronics Ltd Plainview NY.....	516-293-7441
Lemo U S A Inc Santa Rosa CA.....	707-578-8811
National Tel-Tronics Div Technodyne Inc	
Meadville PA.....	814-724-6440
Org Electronics Div Alliance Rsch Corp	
Chatsworth CA.....	818-701-5848
Philmore Mfg Co Inc Inwood NY.....	516-239-6161
Preh Electronics Industries Inc Niles IL.....	312-647-8338
Sager Hingham MA.....	617-749-6700
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Soundollar Div Amer Trading Prod Corp	
St Louis MO.....	314-962-9870
Support Systems Intl Cables & Access Div	
Richmond CA.....	415-234-9090
Switchcraft Inc Chicago IL.....	312-792-2700
TRW Connector Div Elk Grove Village IL.....	312-981-6000

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AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
ADV PG 117	
AMP INCORPORATED HARRISBURG PA.....	717-564-0100
ADV PG 117	
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BUPAC CORP BROCKTON MA.....	617-588-6110
PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
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SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
US COMPONENTS INC BOHEMIA NY.....	516-589-8080
ADV PG 128	
AEG Corporation Somerville NJ.....	201-722-9800
AID Electronics Inc Irving TX.....	214-790-4761
Amphenol Products Lisle IL.....	312-983-3500
AMP Incorporated Harrisburg PA.....	717-564-0100
AMP Products Corp Southeastern PA.....	215-647-1000
Autosplice Inc Woodside NY.....	718-429-0500
Auto-Swage Products Inc Shelton CT.....	203-929-1401
Bead Electronics Div Bead Chain Mfg Co	
Bridgeport CT.....	203-334-4124
ICC-Vero Electronics Inc Trumbull CT.....	203-372-0038
TEC Electronic Components Inc	
Old Bridge NJ.....	201-536-8000
Tud Industries Inc Willoughby OH.....	216-946-3200
Burdny Corp Norwalk CT.....	203-838-4444
Contact Electronics Inc Fairfield NJ.....	201-575-7660
CTS Corp Elkhart IN.....	219-293-7511
CTS Fabri-Tek Inc Eden Prairie MN.....	612-941-9100
CTS Fabri-Tek Inc Connector Div	
New Hope MN.....	612-533-3533
J-W Industries Southampton PA.....	215-355-7080
Digital Equipment Corp Maynard MA.....	617-897-5111
Dowty Electronics Co Brandon VT.....	802-247-6811
Eby Co Philadelphia PA.....	215-969-4200
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Elfab Corp Dallas TX.....	214-233-3033
BTE Sylvania Inc Connector Prods Oper	
Titusville PA.....	814-589-7071
Micro Electric USA Inc Chatsworth CA.....	818-709-1247
Holmberg Electronics Corp Inman SC.....	803-472-4141
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Immac Santa Clara CA.....	408-727-1970
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Canton CT.....	203-693-8361
Midland-Ross Corp Electronic Connector Div	
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Mupac Corp Brockton MA.....	617-588-6110
Panduit Corp Tinley Park IL.....	312-532-1800
PCK Elastomers Inc Lyuboro PA.....	215-672-0787
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Phoenix Terminal Blocks Inc Harrisburg PA.....	717-944-1300
Precision Connector Designs Inc	
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Raychem Corp Menlo Park CA.....	415-361-3333
Robinson Nugent Inc New Albany IN.....	812-945-0211
Ross Co Milton Southampton PA.....	215-355-0200
Sager Hingham MA.....	617-749-6700
Schroff Inc Warwick RI.....	401-732-3770
Souriau Inc Valencia CA.....	805-257-4830
Stanford Applied Engineering Santa Clara CA.....	408-988-0700
Support Systems Intl Cables & Access Div	
Richmond CA.....	415-234-9090
Teradyne Connection Systems Inc	
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US Components Inc Bohemia NY.....	516-589-8080
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CORD ELECTRONICS INC WESTBURY NY.....	516-935-3640
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ADV PG 000	
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ADV PG 000	
WISE COMPONENTS INC GREENWICH CT.....	203-531-4880
Adams-Russell Modpak Burlington MA.....	617-273-3330
ADC Telecommunications Minneapolis MN.....	612-835-6800
AID Electronics Inc Irving TX.....	214-790-4761
Air Electro Supply Inc Van Nuys CA.....	213-988-4400
Almo Electronics Inc Philadelphia PA.....	215-698-4000
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AMP Incorporated Harrisburg PA.....	717-564-0100
AMP Products Corp Southeastern PA.....	215-647-1000
Andrew Corp Orland Park IL.....	312-349-3300
Applied Engineering Products New Haven CT.....	203-387-5282
Astrolab Inc Warren NJ.....	201-560-3800
Automatic Connector Inc Commack NY.....	516-543-5000
Autosplice Inc Woodside NY.....	718-429-0500
Bird Electronic Corp Cleveland (Solon) OH.....	216-248-1200
Blonder-Tongue Labs Inc Old Bridge NJ.....	201-679-4000
BTC Electronic Components Inc	
Old Bridge NJ.....	201-536-8000
Burndy Corp Norwalk CT.....	203-838-4444
Cambridge Products Corp Bloomfield CT.....	203-243-1761
Caton Connector Corp Kingston MA.....	617-585-4315
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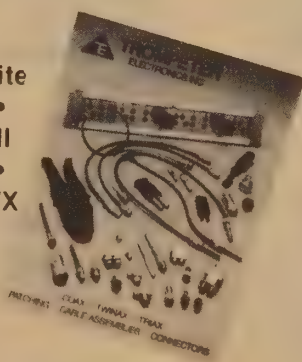
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Gabriel Electronics Inc Scarborough ME	207-883-5161
Hirose Electric USA Inc Chatsworth CA	818-709-1247
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Inmac Santa Clara CA	408-727-1970
Isotronics Inc New Bedford MA	617-998-2000
ITT Cannon Fountain Valley CA	714-557-4700
ITT Pomona Electronics Pomona CA	714-623-3463
Johnson Co E/F/Components Div Waseca MN	507-835-6222
King Wire & Cable Corp Jamaica NY	718-657-4422
Kings Electronics Co Inc Tuckahoe NY	914-793-5000
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Maury Microwave Corp Cucamonga CA	714-987-4715
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Microtech Inc Boothwyn PA	215-459-3566
National Tel-Tronics Div Technodyne Inc Meadville PA	814-724-6440
Nutmeg Screw Machine Products Co Waterbury CT	203-879-1496
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Panduit Corp Tinley Park IL	312-532-1800
Park Distributors Inc Bridgeport CT	203-366-7200
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Soliton Microwave Connector Div Port Salerno FL	305-287-5000
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Wall-Able Mfg Corp Chicago IL	312-440-1000
Weinschel Engineering Co Inc Gaithersburg MD	301-948-3434
Wise Components Inc Greenwich CT	203-531-4880
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ADV PG 123	
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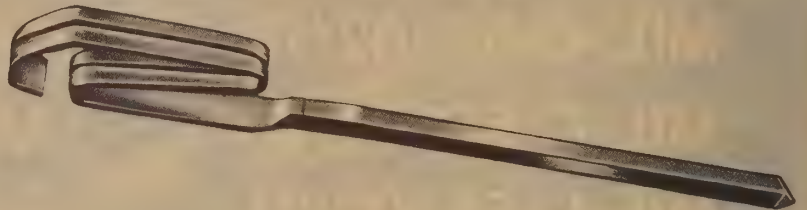
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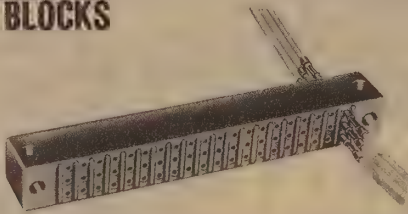
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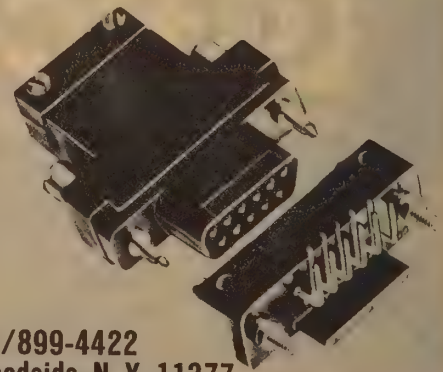
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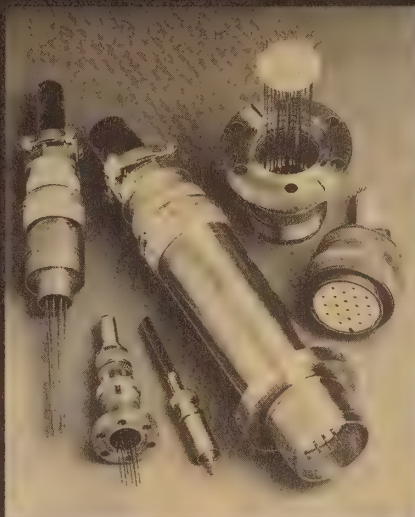
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- High resistance to shock, vibration and severe environmental factors
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- No soldering
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Connector Indus of Amer Div Microdot Cincinnati OH	513-733-3680
Connector Systems Div BIW Santa Rosa CA	707-523-2300
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Continental Connector Corp Woodside NY	718-899-4422
Crouse Hinds Electro Paramount CA	213-636-9321
Dale Electronics Inc Yankton Div Yankton SD	605-665-9301
Elco Corp Newport Beach CA	714-476-0663
Ercona Corp Port Jeffers Sta NY	516-331-5500
Fischer America Inc Sylmar CA	818-362-9396
G & H Technology Inc Camarillo CA	805-484-0543
Hermetic Seal Corp Rosemead CA	213-283-0411
Hirose Electric USA Inc Chatsworth CA	818-709-1247
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ITT Cannon Fountain Valley CA	714-557-4700
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King Wire & Cable Corp Jamaica NY	718-657-4422
Kings Electronics Co Inc Tuckahoe NY	914-793-5000
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M/A COM Omni Spectra Inc Merrimack NH	603-424-4111
Methode Electronics Inc Chicago IL	312-867-9600
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Mykroy / Mycalex Clifton NJ	201-779-8866
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Panduit Corp Tinley Park IL	312-532-1800
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Pyle-National Co Chicago IL	312-342-6300
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Souriau Inc Valencia CA	805-257-4830
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Thomas & Betts Corp Electronics Group Raritan NJ	201-469-4000
Thomas & Betts Electrical Group Raritan NJ	201-685-1800
Tru-Connector Corp Peabody MA	617-532-0775
Tru Connector Div Elk Grove Village IL	312-981-6000
TRW Cylindrical Connectors Div Minneapolis MN	612-537-1010
Underwriters Safety Device Allied Amphenol Prods Chicago IL	312-867-4600
United Microwave Products Inc Torrance CA	213-320-1244

US Components Inc Bohemia NY	516-589-8000
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ADV PGS Green Pages/Footstrips	
US COMPONENTS INC BOHEMIA NY	516-589-8000
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Accurate Electronics Corp Elyria OH	216-365-1200
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Alden Products Co Brockton MA	617-583-0100
AMP Products Corp Southeastern PA	215-647-1000
Armel Electronics Inc North Bergen NJ	201-869-4200
Contact Electronics Inc Fairfield NJ	201-575-7660
Crouse-Hinds Co Syracuse NY	315-477-7000
Electronic Essentials Inc Woodside NY	718-898-8300
Ercona Corp Port Jeffers Sta NY	516-331-5500
Hypertronics Corp Hudson MA	617-568-0451
Industrial Electronic Hardware Corp New York NY	212-677-1800
Inmac Santa Clara CA	408-727-1900
ITT Cannon Fountain Valley CA	714-557-4700
King Wire & Cable Corp Jamaica NY	718-657-4422
Kulka Smith Inc Manasquan NJ	201-223-9400
Malco Div Microdot Inc Montgomeryville PA	215-699-5300
National Tel-Tronics Div Technodyne Inc Meadville PA	814-724-6440
Panasonic Co Electronic Components Div Secaucus NJ	201-348-5200
Pass & Seymour Syracuse NY	315-468-6200
Peerless Radio Corp Lynbrook NY	516-593-2121
Permonite Mfg Co Palatine IL	312-358-0000
Preh Electronics Industries Inc Niles IL	312-647-8300
Pyle-National Co Chicago IL	312-342-6300
Rowe Industries Inc Toledo OH	419-729-9761
Stewart Stamping Corp Yonkers NY	914-965-0800
Tru-Connector Corp Peabody MA	617-532-0775
US Components Inc Bohemia NY	516-589-8000
Vernitron Corp Beau Products Div Laconia NH	603-524-5100
Weco Electrical Connectors Inc Mooers NY	518-298-4800
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TECKNIT CRANFORD NJ	201-272-5500
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PCK Elastomers Inc Hatboro PA	215-672-0700
Power Dynamics Inc West Orange NJ	201-736-5700
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ADV PG 128	
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Almo Electronics Inc Philadelphia PA	215-698-4000
American-Swiss Products Co Inc Pittsford NY	716-248-2200
Amphenol Products Lisle IL	312-983-3500
AMP Incorporated Harrisburg PA	717-564-0100
AMP Products Corp Southeastern PA	215-647-1000
Aries Electronics Inc Frenchtown NJ	201-996-6800
Associates Electronics & Mfg Corp Upper Montclair NJ	201-783-7800
BTC Electronic Components Inc Old Bridge NJ	201-536-8000
Burdury Corp Norwalk CT	203-838-4400
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Design, reliability and consistent quality make Fischer superior to similar type connectors.

These precision connectors are in use by Tektronix, Hewlett Packard, Texas Instruments, Phillips, Bosch and many more quality conscious companies around the world.

Prices are extremely competitive with manufacturers of similar types of connectors.

Delivery times are outstanding. Scheduled delivery on production orders can be arranged.

Applications

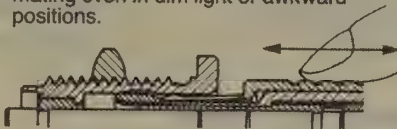
Medical, Military, Aerospace, Telecom, R.F., Video Broadcast, Audio and Industrial.

Types

50 and 75 Ohm, coax, triax, twinax, multipin and compound connectors. Available in gas tight, vacuum, high radiation, high voltage, high temperature and hermetically sealed versions. Thermocouple types, P.C. mount, low resistance and lightweight plastic connectors are also available.

Automatic Locking

Superior locking/unlocking arrangement with metal half shells means easy mating even in dim light or awkward positions.



Materials

Brass, stainless steel, plastics, etc.

Insulation

PTFE, ceramic, PBTP, High temperature plastics, etc.

Contacts

Machined, not stamped. Brass per QQ-B-626 or QQ-B-750 or Beryllium Bronze.

Plating

1 micron gold to MIL-G-45204C, type II over 5 microns nickel to QQ-N-290, class II is standard. Optional 3 microns gold available.

Finish

Extremely rugged yet attractive connectors available with bright gold, satin or polished chrome finish. Other finishes may be specified. Protective rubber boots and plugs are also available.

Contact resistance

Less than 3 milliohms.

Radiation resistance

To 10⁶ Rads, higher with ceramic insulators.

High temperatures

To 400°C with ceramic insulators.

Compatible

Some series intermate with Lemo and Kings connectors.

Other features

Space-saving design for dense panels. Simple one piece cable collet clamp for unshielded cables. Easily assembled 2 piece collet for shielded cable.

Custom & specials

When quantities warrant, connectors can be made to customer specifications. Often, existing parts can be modified at low cost for special applications.

Delivery

Small quantities are usually in factory stock. Production quantities: 4-8 weeks on standard items.

Other products

Delay lines from 0.5 nS to 64 nS. Custom cable assemblies.


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Crouse-Hinds Electro Paramount CA	213-636-9321
CTS Fabri-Tek Inc Connector Div New Hope MN	612-533-3533
Deutsch Engineered Connecting Devices Banning CA	714-849-7822
Dixon Industries Corp Bristol RI	401-253-2000
Dowdy Electronics Co Brandon VT	802-247-6811
Elco Corp Newport Beach CA	714-476-0663
Ercona Corp Port Jeffers Sta NY	516-331-5500
Fischer America Inc Sylmar CA	818-362-9396
G & H Technology Inc Camarillo CA	805-484-0543
Glenair Inc Glendale CA	818-247-6000
Hermetic Seal Corp Rosemead CA	213-283-0411
Hirose Electric USA Inc Chatsworth CA	818-709-1247
Hughes Aircraft Co Connecting Devices Div Irvine CA	714-660-5701
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Landmark Electronics Ltd Plainview NY	516-293-7441
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Magnum Electric Erie MI	313-848-2555
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Robinson Nugent Inc New Albany IN	812-945-0211
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Rowe Industries Inc Toledo OH	419-729-9761
Sabritec Irvine CA	714-549-7350
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Sealtrol Inc Cincinnati OH	513-733-8400
SMK Electronics Corp USA Placentia CA	714-996-0960
Souriau Inc Valencia CA	805-257-4830
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Stewart Stamping Corp Yonkers NY	914-965-0816
Support Systems Intl Cables & Access Div Richmond CA	415-234-9090
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TRW Cylindrical Connectors Div Minneapolis MN	612-537-1010
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Component Mfg Svc Inc West Bridgewater MA	617-580-0111
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Inmac Santa Clara CA	408-727-1970
ITT Cannon Fountain Valley CA	714-557-4700
Keystone Electronics Corp New York NY	212-475-4600
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Preh Electronics Industries Inc Niles IL	312-647-8368
Sager Hingham MA	617-749-6700
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Sjoberg & Son Inc Cranston RI	401-461-8220
SMK Electronics Corp USA Placentia CA	714-996-0960
Switchcraft Inc Chicago IL	312-792-2700
Wall-Able Mfg Corp Chicago IL	312-440-1000
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Associates Electronics & Mfg Corp Upper Montclair NJ	201-783-7800
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BTC Electronic Components Inc Old Bridge NJ	201-536-8000
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Caton Connector Corp Kingston MA	617-585-4315
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Component Mfg Svc Inc West Bridgewater MA	617-580-0111
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Cooper Industries Arrow Hart Hartford CT	203-249-8471
Corcom Inc Libertyville IL	312-680-7400
Crouse-Hinds Co Syracuse NY	315-477-7000
Crouse-Hinds Electro Paramount CA	213-636-9321
Dale Electronics Inc Yankton Div Yankton SD	605-665-9301
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Electro Cords Div Middlebury IN	219-225-9466
Ercona Corp Port Jeffers Sta NY	516-331-5500
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Ideal Industries Inc Sycamore IL	815-895-5181
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International Configurations Inc Enfield CT	707-523-0600
ITT Cannon Fountain Valley CA	714-557-4700
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Methode Electronics Inc Interconnect Prods Div Rolling Meadows IL	312-392-3500
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Molex Inc Lisle IL	312-969-4550
Nesco Battery Sys Div Natl Electro-Sales Corp Van Nuys CA	818-781-0505
Panduit Corp Tinley Park IL	312-532-1800
Panel Components Corp Santa Rosa CA	707-523-0600
Pass & Seymour Syracuse NY	516-468-6211
Peerless Radio Corp Lynbrook NY	516-593-2121
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Power Dynamics Inc West Orange NJ	201-736-5722
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Ross Co Milton Southampton PA	215-355-0200
Rowe Industries Inc Toledo OH	419-729-9761
Sager Hingham MA	617-749-6700
Schaffner EMC Inc Components Div Union NJ	201-851-8440
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Sjoberg & Son Inc Cranston RI	401-461-8220
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Souriau Inc Valencia CA	805-257-4830
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Switchcraft Inc Chicago IL	312-792-2700
Tower Mfg Corp Providence RI	401-467-7550
TRW Connector Div Elk Grove Village IL	312-981-6000
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US Components Inc Bohemia NY	516-589-8080
Vernitron Corp Beau Products Div Laconia NH	603-524-5101
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MUPAC CORP BROCKTON MA	617-588-6110
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SUPERIOR ELECTRIC CO THE BRISTOL CT	203-582-9561
TECKNIT CRANFORD NJ	201-272-5500
ADV PG 122	
US COMPONENTS INC BOHEMIA NY	516-589-8080
ADV PG 128	
Accessories for Electronics Inc Baldwin NY	516-546-1751
Accurate Electronics Corp Elyria OH	216-365-1211
Advanced Circuit Technology Inc Nashua NH	603-880-6000
AirBorn Inc Addison TX	214-931-3200
Air Electro Supply Inc Van Nuys CA	213-988-4400
Almo Electronics Inc Philadelphia PA	215-698-4000
Alpha Wire Corp Elizabeth NJ	201-925-8000
Amphenol Products Lisle IL	312-983-3500
AMP Incorporated Harrisburg PA	717-564-0100
AMP Products Corp Southeastern PA	215-647-1000
Aptronics Corporation Mentor OH	800-792-0137
Argent Industries Inc Englewood OH	513-836-8633
Asmann Components/ebm Inds Unionville CT	203-674-1515
Associated Electronics/3M Painesville OH	216-354-0925
Augat Inc Attleboro MA	617-222-2020
Autosplice Inc Woodside NY	718-429-0500
Auto-Swage Products Inc Shelton CT	203-929-1401
Burndy Corp Norwalk CT	203-388-4444
Carroll Components Corp Camarillo CA	805-484-0540
Circuit Assembly Corp Irvine CA	714-855-7887
Component Mfg Svc Inc West Bridgewater MA	617-580-0111
Continental Connector Corp Woodside NY	718-899-4422
C-W Industries Southampton PA	215-355-7080
Douglas Electronics San Leandro CA	415-483-8770
Dowdy Electronics Co Brandon VT	802-247-6811
Eby Co Philadelphia PA	215-969-4200
Elfab Corp Dallas TX	214-233-3030
Ercona Corp Port Jeffers Sta NY	516-331-5500
Hirose Electric USA Inc Chatsworth CA	818-709-1247
H & T Components Inc Bohemia NY	516-567-2282
Hypertronics Corp Hudson MA	617-568-0451
IDEC Systems & Controls Corp Santa Clara CA	408-988-7500
InjectorAl Electronics Corp Glen Cove NY	516-671-6010
Inmac Santa Clara CA	408-727-1970
ITT Cannon Fountain Valley CA	714-557-4700
JOLO Industries Inc Garden Grove CA	714-554-6844
Kel-Am Inc Eldon MO	314-392-7171
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnum Electric Erie MI	313-848-2555
Masterite Industries Corp Torrance CA	213-775-3471
Methode Electronics Inc Chicago IL	312-867-9600
Mhtronics Inc Deerfield IL	312-948-5600
Microtech Inc Boothwyn PA	215-459-3566
Middleburg Corp/Middco Connectors Canton CT	203-693-8361
Midland-Ross Corp Electronic Connector Div Cambridge MA	617-491-5400
3M-Electronic Products Div Austin TX	512-834-1800
Molex Inc Lisle IL	312-969-4550
Mupac Corp Brockton MA	617-588-6110
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Panduit Corp Tinley Park IL	312-532-1800
Park Distributors Inc Bridgeport CT	203-366-7200
PKK Elastomers Inc Hattboro PA	215-672-0787
Peerless Radio Corp Lynbrook NY	516-593-2121
Phoenix Terminal Blocks Inc Harrisburg PA	717-944-1300
Raychem Corp Menlo Park CA	415-361-3333
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Sager Hingham MA	617-749-6700
Sanders Associates Inc Nashua NH	603-885-4321
Schroff Inc Warwick RI	401-732-3707
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Superior Electric Co The Bristol CT	203-582-9561
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Ultra Products Manitou Beach MI	517-547-3161
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US Components Inc Bohemia NY	516-589-8080
Vector Electronic Co Inc Sylmar CA	818-365-9661
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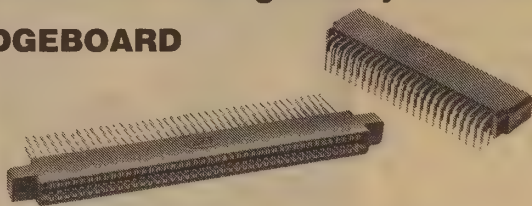
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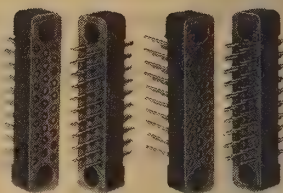
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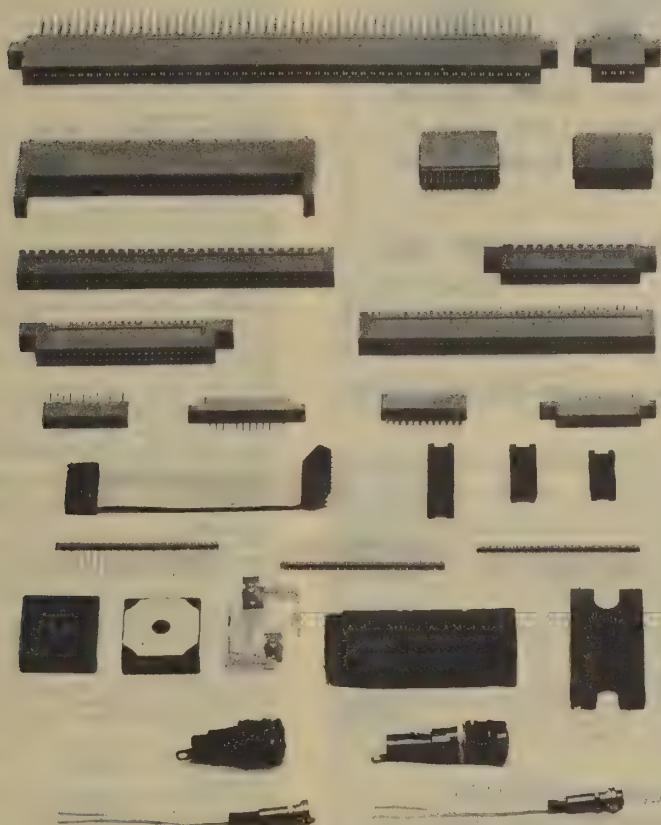
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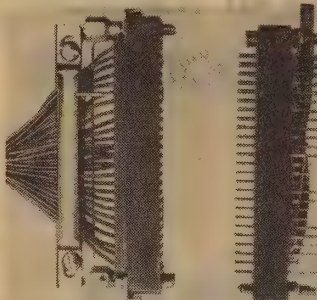
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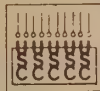
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M/A COM Omni Spectra Inc Merrimack NH	603-424-4111
Malco Div Microdot Inc Montgomeryville PA	215-699-5373
Micro-Coax Components Inc Collegeville PA	215-489-3700
Microtech Inc Boothwyn PA	215-459-3566
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
Murata Erie North America Inc Smyrna GA	404-436-1300
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Rowe Industries Inc Toledo OH	419-729-9761
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Sealtrom Inc Cincinnati OH	513-733-8400
Shokai Far East Ltd Hartsdale NY	914-681-0700
Soltron Microwave Connector Div	
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SPC Technology Bensenville IL	312-766-6711
Spectrum Control Inc Erie PA	814-455-0966
Switchcraft Inc Chicago IL	312-792-2700
Trompeter Electronics Inc	
Westlake Village CA	818-707-2020
Tru-Connector Corp Peabody MA	617-532-0775
TRW Connector Div Elk Grove Village IL	312-981-6000
Wall-Able Mfg Corp Chicago IL	312-440-1000

CONNECTORS—SOLDERLESS

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DALE ELECTRONICS INC YANKTON DIV	
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ADV PG 126	
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ADV PG Gatefold	
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ADV PG 122	
TROMPETER ELECTRONICS INC	
WESTLAKE VILLAGE CA	818-707-2020
ADV PG 118	
UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-775-1102
US COMPONENTS INC BOHEMIA NY	516-589-8080
ADV PG 128	
ZIERICK MFG CORP MOUNT KISCO NY	914-666-2911
Accurate Electronics Corp Elyria OH	216-365-1211
ADC Telecommunications Minneapolis MN	612-835-6800
AEG Corporation Somerville NJ	201-722-9800
AID Electronics Inc Irving TX	214-790-4761
AirBorn Inc Addison TX	214-931-3200
Air Electro Supply Inc Van Nuys CA	213-988-4400
Allied Systems Corp Greensboro NC	919-299-2294
Almo Electronics Inc Philadelphia PA	215-698-4000
American-Swiss Products Co Inc Pittsford NY	716-248-2277
Amian Inc Stamford CT	203-322-1913
Amphenol Products Lisle IL	312-983-3500
AMP Incorporated Harrisburg PA	717-564-0100
AMP Products Corp Southeastern PA	215-647-1000
Armel Electronics Inc North Bergen NJ	201-869-4201
Augat Inc Attleboro MA	617-222-2202
Autosplice Inc Woodside NY	718-429-0500
Auto-Swage Products Inc Shelton CT	203-929-1401
Bead Electronics Div Bead Chain Mfg Co	
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BICC-Vero Electronics Inc Trumbull CT	203-372-0038
Blackburn Div FL Industries Sycamore IL	815-895-6501
BTC Electronic Components Inc	
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Bud Industries Inc Willoughby OH	216-946-3200
Burdury Corp Norwalk CT	203-838-4444
CDMI-Connector Design & Mfg Inc	
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Circuit Assembly Corp Irvine CA	714-855-7887
Concord Electronics Corp New York NY	212-777-6571
Contact Electronics Inc Fairfield NJ	201-575-7660
Continental Connector Corp Woodside NY	718-899-4422
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CTS Fabri-Tek Inc Connector Div	
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C-W Industries Southampton PA	215-355-7080
Date Electronics Inc Yankton Div Yankton SD	605-665-9301
Dowdy Electronics Co Brandon VT	802-247-6811
DuPont Connector Systems Camp Hill PA	717-975-2000
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Edac Inc Don Mills ON	416-445-2292
Elco Corp Newport Beach CA	714-476-0663
Electric Switches Inc Los Angeles CA	213-660-1310
Electronic Molding Corp Woonsocket RI	401-769-3800
Elfab Corp Dallas TX	214-233-3033
E & L Instruments Inc New Haven CT	203-624-3103
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Methode Electronics Inc Interconnect Prods Div	
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ltra Products Manitow Beach MI	517-547-3161
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niversal Instruments Corp Binghamton NY	607-775-1102
S Components Inc Bohemia NY	516-589-8080
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/aco Electrical Connectors Inc Moores NY	518-298-4810
/eiss-Avg Co Inc East Hanover NJ	201-887-7600
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Ideal Industries Inc Sycamore IL	815-895-5181
Inmac Santa Clara CA	408-727-1970
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Kings Electronics Co Inc Tuckahoe NY	914-793-5000
Klein Tools Inc Chicago IL	312-677-9500
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Methode Electronics Inc Interconnect Prods Div	
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Micro-Coax Components Inc Collegeville PA	215-489-3700
Microtech Inc Boothwyn PA	215-459-3566
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
3M-Electronic Products Div Austin TX	512-834-1800
Molex Inc Lisle IL	312-969-4550
O K Industries Bronx NY	212-994-6600
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Panduit Corp Tinley Park IL	312-532-1800
Philmore Mfg Co Inc Inwood NY	516-239-6161
Positronic Industries Inc Springfield MO	417-866-2322
Ripley Co Inc Utility Tool Div Cromwell CT	203-635-2200
Robinson Nugent Inc New Albany IN	812-945-0211
Ross Co Milton Southampton PA	215-355-0200
Sager Hingham MA	617-749-6700
Schroff Inc Warwick RI	401-732-3770
Simonds Inc Southbridge MA	617-764-3235
Souriau Inc Valencia CA	805-257-4830
SPC Technology Bensenville IL	312-766-6711
Square D Co Palatine IL	312-397-2600
Stanford Applied Engineering Santa Clara CA	408-988-0700
Support Systems Intl Cables & Access Div	
Richmond CA	415-234-9090
Thomas & Betts Corp Electronics Group	
Raritan NJ	201-469-4000
Thomas & Betts Electrical Group Raritan NJ	201-685-1600
Trompeter Electronics Inc	
Westlake Village CA	818-707-2020
TRW Connector Div Elk Grove Village IL	312-981-6000
Vaco Products Co Northbrook IL	312-564-3300
Vector Electronic Co Inc Sylmar CA	818-365-9661
Vertex Electronics Inc Farmingdale NY	516-293-9880
Viking Connectors Co Chatsworth CA	213-341-4330
Wise Components Inc Greenwich CT	203-531-4880

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WEST ORANGE NJ	201-736-5722
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ADV PG 118	
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Amphenol Products Lisle IL	312-983-3500
AMP Products Corp Southeastern PA	215-647-1000
Associates Electronics & Mfg Corp	
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Blonder-Tongue Labs Inc Old Bridge NJ	201-679-4000
BTC Electronic Components Inc	
Old Bridge NJ	201-536-8000
Caton Connector Corp Kingston MA	617-585-4315
CDMI-Connector Design & Mfg Inc	
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Concord Electronics Corp New York NY	212-777-6571
Connector Indus of Amer Div Microdot	
Cincinnati OH	513-733-3680
Connector Systems Div BIW Santa Rosa CA	707-523-2300
Contact Electronics Inc Fairfield NJ	201-575-7660
Crouse-Hinds Co Syracuse NY	315-477-7000
Crouse-Hinds Electro Paramount CA	213-636-9321
Decibel Products Inc Dallas TX	214-631-0310
Detonics Corp S El Monte CA	818-579-7130
Enviro-marine Systems Inc Laurel MD	301-598-8833
Ercona Corp Port Jefferson Sta NY	516-331-5500
Fischer America Inc Sylmar CA	818-362-9396
Glenair Inc Glendale CA	818-247-6000
Heyco Molded Products Kenilworth NJ	201-245-0033
Hirose Electric USA Inc Chatsworth CA	818-709-1247
Hughes Aircraft Co Connecting Devices Div	
Irvine CA	714-660-5701
ISOTronics Inc New Bedford MA	617-998-2000
ITT Cannon Fountain Valley CA	714-557-4700
Kings Electronics Co Inc Tuckahoe NY	914-793-5000
Lemo U S A Inc Santa Rosa CA	707-578-8811
M/A COM Omni Spectra Inc Merrimack NH	603-424-4111
Manhattan Electric Cable Corp Rye NY	609-455-8530
Massa Products Corp Hingham MA	617-749-4800
Microtech Inc Boothwyn PA	215-459-3566
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
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Peerless Radio Corp Lynbrook NY	516-593-2121
Power Dynamics Inc West Orange NJ	201-736-5722
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Rachem Corp Menlo Park CA	415-361-3333
Rowe Co L L Woburn MA	617-729-7880
Rowe Industries Inc Toledo OH	419-729-9761
Soltrion Microwave Connector Div	
Port Salerno FL	305-287-5000
SOS Lighting Devices Div MEMCO	
Philadelphia PA	215-423-7077
Souriau Inc Valencia CA	805-257-4830
SP America Inc San Jose CA	408-947-0311
Trompeter Electronics Inc	
Westlake Village CA	818-707-2020
United Microwave Products Inc Torrance CA	213-320-1244
Viking Connectors Co Chatsworth CA	213-341-4330

CONSOLES—CONTROL

See Controls Listings

CONSOLES—HOUSINGS

See Cabinets & Consoles

CONSTANT-CURRENT SUPPLIES

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CONTACT CLEANERS

See Cleaning Materials—Contact

See Also Abrasives

CONTACTS—ELECTRICAL (EXCEPT SPRINGS)

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CONCORD ELECTRONICS CORP	
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GRAPHITE METALLIZING CORP	
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ADV PG 47	
KEYSTONE ELECTRONICS CORP	
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MICRO CONTACTS INC AFFIL MOLD-A-MATIC CORP	
HICKSVILLE NY	516-433-4830
MILL-MAX MFG CO OYSTER BAY NY	516-922-6000
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA	617-226-1200
SADA ELETRONICA SPA PAVIA ITALY	382-4669 31
ADV PG 127	
TECKNIT CRANFORD NJ	201-272-5500
TROMPETER ELECTRONICS INC	
WESTLAKE VILLAGE CA	818-707-2020
ADV PG 118	
US COMPONENTS INC BOHEMIA NY	516-589-8080
Accurate Electronics Corp Elyria OH	216-365-1211
Advance Carbon Products Inc Brisbane CA	415-468-1670
AirBorn Inc Addison TX	214-931-3200
Air Electro Supply Inc Van Nuys CA	213-988-4400
Amatom Electronic Hardware Co	
New Haven CT	203-397-3311
Amphenol Products Lisle IL	312-983-3500
AMP Incorporated Harrisburg PA	717-564-0100
AMP Products Corp Southeastern PA	215-647-1000
Art Wire/Doduco Parsippany NJ	201-428-4880
Autosplice Inc Woodside NY	718-429-0500
Auto-Swage Products Inc Shelton CT	203-929-1401
Balo Precision Parts Inc Franklin Lakes NJ	201-337-2011
Bead Electronics Div Bead Chain Mfg Co	
Bridgeport CT	203-334-4124
Bigelow Components Corp Springfield NJ	201-467-1200
Brady Co W H Ymox Div Milwaukee WI	414-355-8300
Breeze-Illinois Inc Peoria IL	309-695-2511
BTC Electronic Components Inc	
Old Bridge NJ	201-536-8000
Burndy Corp Norwalk CT	203-838-4444
CDMI-Connector Design & Mfg Inc	
Los Angeles CA	213-776-6614
Circuit Assembly Corp Irvine CA	714-855-7887
Concord Electronics Corp New York NY	212-777-6571
Continental Precision Stamping Inc	
Pomona CA	714-594-9014
Crouse-Hinds Co Syracuse NY	315-477-7000
CTS Fabri-Tek Inc Connector Div	
New Hope MN	612-533-3533
Degussa Corp So Plainfield NJ	201-757-6500
Deringer Mfg Co Mundelein IL	312-566-4100
Deutsch Engineered Connecting Devices	
Banning CA	714-849-7822
Diebel Mfg Co Morton Grove IL	312-463-3100
Eaton Corp Engineered Fasteners Div	
Cleveland OH	216-523-5361
Elco Corp Newport Beach CA	714-476-0663
Elco Industries Inc Rockford Div Rockford IL	815-397-5151
Ellab Corp Dallas TX	214-233-3033
Emporium Specialties Co Inc Austin PA	814-647-8661
Engelhard Industries Iselin NJ	201-321-5900
Fanstel Electrometals North Chicago IL	312-689-4900
Graphite Metallizing Corp Yonkers NY	914-968-8400
GTE Precision Materials Danvers MA	617-777-1900
GTE Technical Products Div Reidsville NC	919-342-2381
Handy & Harman Electronic Mats Corp	
North Attleboro MA	617-695-1401
Heraeus-Volkert Inc Queens Village NY	718-464-8400
Hughes Aircraft Co Connecting Devices Div	
Irvine CA	714-660-5701
Hypertronics Corp Hudson MA	617-568-0451
IC Probotics Inc Longwood FL	305-339-8298

Impex Div National Lock Corp Crawfordsville IN.....	317-362-0800
Industrial Electronic Hardware Corp New York NY.....	212-677-1881
ITT Cannon Mountain Valley CA.....	714-557-4700
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Ken-Tron Mfg Inc Owensboro KY.....	502-684-0431
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Masteite Industries Corp Torrance CA.....	213-775-3471
Metal Forming Oper GTE Prods Corp York PA.....	717-848-8080
Methode Electronics Inc Interconnect Prods Div Rolling Meadows IL.....	312-392-3500
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Microtech Inc Boothwyn PA.....	215-459-3566
Mill-Max Mfg Co Oyster Bay NY.....	516-922-6000
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Ohio Carbon Co Cleveland OH.....	216-252-6100
PCK Elastomers Inc Hatboro PA.....	215-672-0787
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Polymetalurgical Corp Attleboro Falls MA.....	617-695-9312
Poly-Scientific Litton Systems Inc Blacksburg VA.....	703-552-3011
Positronic Industries Inc Springfield MO.....	417-866-2322
Precision Connector Designs Inc Winchester MA.....	617-721-1280
Precision Metallurgical Corp A Leach & Garner Co Attleboro MA.....	617-226-1200
Program Data Inc Irvine CA.....	714-660-0818
Pyle-National Co Chicago IL.....	312-342-6300
Raychem Corp Menlo Park CA.....	415-361-3333
Robinson Nugent Inc New Albany IN.....	812-945-0211
Ross Co Milton Southampton PA.....	215-355-0200
Rowe Co L L Woburn MA.....	617-729-7860
SADA Elettronica SpA Pavia Italy.....	382-4669 31
St Marys Carbon Co St Marys PA.....	814-781-7333
Sjoberg & Son Inc Cranston RI.....	401-461-8220
Sollitron Microwave Connector Div Port Salerno FL.....	305-287-5000
Souriau Inc Valencia CA.....	805-257-4830
Stackpole, Carbon Div St Marys PA.....	814-781-1234
Staffall Inc Providence RI.....	401-351-8282
Stanford Applied Engineering Santa Clara CA.....	408-988-0700
Stimpson Co Inc Bayport NY.....	516-472-2000
Superior Carbon Products Inc Cleveland OH.....	216-883-4880
Tech-Etch Inc Plymouth MA.....	617-747-0300
Technit Cranford NJ.....	201-272-5500
Trompeter Electronics Inc Westlake Village CA.....	818-707-2020
TRW Connector Div Elk Grove Village IL.....	312-981-6000
TRW Cylindrical Connectors Div Minneapolis MN.....	612-537-1010
Ultra Products Manitou Beach MI.....	517-547-3161
United Technologies Automotive Grp Terminal Prods Huntington IN.....	219-356-2700
US Components Inc Bohemia NY.....	516-589-8080
USECO Div Litton Systems Inc Van Nuys CA.....	818-786-9381

CONTACTS—SPRING

AMP INCORPORATED HARRISBURG PA.....	717-564-0100
GRAPHITE METALLIZING CORP YONKERS NY.....	914-968-8400
ADV PG 47	
MICRO CONTACTS INC AFFIL MOLD-A-MATIC CORP HICKSVILLE NY.....	516-433-4830
PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA.....	617-226-1200
SADA ELETTRONICA SPA PAVIA ITALY.....	382-4669 31
ADV PG 127	
Accurate Electronics Corp Elyria OH.....	216-365-1211
Acme Model Engineering Co Ridgfield NJ.....	201-943-7650
Advanced Carbon Products Inc Brisbane CA.....	415-468-1670
Airflyte Electronics Co Bayonne NJ.....	201-436-2230
Allied Systems Corp Greensboro NC.....	919-299-2294
Amphenol Products Lisle IL.....	312-983-3500
AMP Incorporated Harrisburg PA.....	717-564-0100
Augat/Pylon Co Inc Attleboro Falls MA.....	617-699-7646
Autosplice Inc Woodside NY.....	516-429-0500
Auto-Swage Products Inc Shelton CT.....	303-329-1401
Breeze-Illinois Inc Peoria IL.....	309-695-2511
Continental Precision Stamping Inc Pomona CA.....	714-594-9014
Eaton Corp Engineered Fasteners Div Cleveland OH.....	216-523-5361
Engelhard Industries Iselin NJ.....	201-321-5900
Graphite Metallizing Corp Yonkers NY.....	914-968-8400
Heraeus-Volkert Inc Queens Village NY.....	718-464-8400
I C Robotics Inc Longwood FL.....	305-339-8298
Industrial Electronic Hardware Corp New York NY.....	212-677-1881
Instrument Specialties Co Inc Delaware Water Gap PA.....	717-424-4551
Interconnect Devices Inc Kansas City KS.....	913-342-5544
Ken-Tron Mfg Inc Owensboro KY.....	502-684-0431
Loranger Int'l Corp Warren PA.....	814-723-2250
Metal Forming Oper GTE Prods Corp York PA.....	717-848-8080
Micro Contacts Inc Affil Mold-A-Matic Corp Hicksville NY.....	516-433-4830
Midland-Ross Corp Electronic Connector Div Cambridge MA.....	617-491-5400
Pfizer Inc Mats Science Prods Grp Specialty Metal Prods Wallingford CT.....	203-265-7781
Polymetalurgical Corp Attleboro Falls MA.....	617-695-9312
Precision Metallurgical Corp A Leach & Garner Co Attleboro MA.....	617-226-1200
QA Technology Co Inc Exeter NH.....	603-772-3450
Robinson Nugent Inc New Albany IN.....	812-945-0211
SADA Elettronica SpA Pavia Italy.....	382-4669 31
Servometer Corp Cedar Grove NJ.....	201-785-4630
Sjoberg & Son Inc Cranston RI.....	401-461-8220
S K G Associates Inc Norwell MA.....	617-878-7250

Staffall Inc Providence RI.....	401-351-8282
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Staver Co Inc Bay Shore NY.....	516-666-8000
Superior Carbon Products Inc Cleveland OH.....	216-883-4880
Tech-Etch Inc Plymouth MA.....	617-747-0300
Textool Products/3M Irving TX.....	214-259-2676
Vector Electronic Co Inc Sylmar CA.....	818-365-9661

CONTACTS—TUBE

See Tube Parts

CONTAINERS

See Bins; Boxes; Cabinets; Cases; Packages;

Packaging Materials; Tanks

CONTINUITY TESTERS

See Testers

CONTROL COMMUNICATIONS
EQUIPMENT

See Communications Reference List

CONTROL INSTRUMENTS &
COMPONENTS

See Instruments & Accessories Reference List

CONTROLLERS—DISK DRIVE, TAPE
DRIVE, & MULTIFUNCTION DRIVE
(CONTROLLERS ONLY)

CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY.....	718-361-2133
INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA.....	818-991-9614
TDK CORP TOKYO JAPAN.....	03-278-5111
Adaptex Inc Milpitas CA.....	408-946-8600
Advanced Micro Devices Inc Sunnyvale CA.....	408-732-2400
Advanced Storage Concepts Inc Houston TX.....	713-729-6388
Alloy Computer Products Inc Framingham MA.....	617-875-6100
Andromeda Systems Canoga Park CA.....	818-709-7600
Applied Micro Technology Inc Tucson AZ.....	602-622-8605
Axis Inc San Diego CA.....	619-560-7737
Bering Industries Inc Fremont CA.....	415-651-3300
Ciprico Inc Plymouth MN.....	612-559-2034
Comark Corp Medfield MA.....	617-359-8161
Computer Numerical Control Corp Woburn MA.....	617-933-0091
Control Technology Co Inc Long Island City NY.....	718-361-2133
Data-Sud/Systems US Inc Tempe AZ.....	602-438-1492
Digital Data Systems Inc Plantation FL.....	305-792-3290
Digital Equipment Corp Maynard MA.....	617-897-5111
Dy-4 Systems Ottawa ON.....	613-728-3711
Everett/Charles Marketing Services Inc Fontana CA.....	714-899-2521
Fluke Mfg Co Inc John Everett WA.....	206-356-5400
Force Computers Inc Los Gatos CA.....	408-354-3410
Fujitsu America Storage Prods Div San Jose CA.....	408-946-8777
GEN/COMP Inc Canton MA.....	617-828-2008
Harris Corp Computer Systems Div Ft Lauderdale FL.....	305-974-1700
Hewlett-Packard Palo Alto CA.....	415-857-8000
International Data Technology Ft Lauderdale FL.....	305-587-6823
International Instrumentation Inc Westlake Village CA.....	818-991-9614
Interphase Corp Dallas TX.....	214-350-9000
LD/Phillon Roy Riviera Beach FL.....	305-844-5241
Liken Industries Tustin CA.....	714-832-9229
MacroLink Inc Anaheim CA.....	714-777-8800
MATRO Electronic Systems Dorval PQ.....	514-685-2630
MDX Systems Inc Orange CA.....	714-998-6900
Mesa Technology Corp Gaithersburg MD.....	800-638-2039
Milpote Corp Melville NY.....	516-420-0200
Motorola Semiconductor Products Inc Phoenix AZ.....	602-244-6900
Plessey Microsystems Pearl River NY.....	914-735-4861
Qualogy Inc San Jose CA.....	408-946-5800
Silicon Systems Inc Tustin CA.....	714-731-7110
Systech Corp San Diego CA.....	619-453-8970
TDK Corp Tokyo Japan.....	03-278-5111
Teletype Technology Inc Greenlawn NY.....	516-423-3232
Transwave Corp Vanderbilt PA.....	412-628-6370
Winchester Systems Inc Woburn MA.....	617-933-8500
Xylogics Inc Burlington MA.....	617-272-8149
Xynerics Products Santa Clara CA.....	408-988-4540
Zendex Corp Dublin CA.....	415-828-3000

CONTROLLERS—LOCAL AREA
NETWORK EQUIPMENT

CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY.....	718-361-2133
ILC DATA DEVICE CORP BOHEMIA NY.....	516-567-5600
INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA.....	818-991-9614
Advanced Micro Devices Inc Sunnyvale CA.....	408-732-2400
Advanced Systems Concepts Inc Pasadena CA.....	213-793-8972

Anasoc Corp Wakefield MA.....	617-246-33
Azonix Corp Burlington MA.....	617-273-55
Bailey Controls Co Wickliffe OH.....	216-585-85
Braegen Corp Milpitas CA.....	408-945-19
Compu-Mech Inc Toledo OH.....	419-535-67
Computrol Div Kidde Automated Sys Inc Ridgfield CT.....	203-544-93
Control Technology Co Inc Long Island City NY.....	718-361-21
Control Technology Corp Hopkinton MA.....	617-435-95
Cybernetic Micro Systems Inc San Gregorio CA.....	415-726-30
Data-Sud/Systems US Inc Tempe AZ.....	602-438-14
Da-Tech Corp Ivyland PA.....	215-322-94
Digital Equipment Corp Maynard MA.....	617-897-51
Digital Microsystems Oakland CA.....	415-532-36
Divebiss Corp Fredericktown OH.....	614-694-84
Dynatech Packet Tech Alexandria VA.....	703-642-93
ECO Instruments Div Sea Data Corp Newton MA.....	617-964-83
Fluke Mfg Co Inc John Everett WA.....	206-356-54
Force Computers Inc Los Gatos CA.....	408-354-34
Fuji Electric Corp of America Los Angeles CA.....	213-622-44
GE Co Automation Controls Oper Charlottesville VA.....	804-978-50
Gerber Scientific Instrument Co South Windsor CT.....	203-644-15
Harris Corp Computer Systems Div Ft Lauderdale FL.....	305-974-17
Hewlett-Packard Palo Alto CA.....	415-857-80
Honeywell Inc IPC Div York PA.....	717-848-11
ILC Data Device Corp Bohemia NY.....	516-567-56
Inconix Corp Norwell MA.....	617-655-11
Intelligent Controls Inc Saco ME.....	207-283-01
International Data Sciences Inc Lincoln RI.....	401-333-62
International Instrumentation Inc Westlake Village CA.....	818-991-96
Interphase Corp Dallas TX.....	214-350-90
Lindburg Enterprises Inc San Diego CA.....	619-566-56
Micom Systems Inc Simi Valley CA.....	805-583-86
Microperipheral Corp Redmond WA.....	206-881-75
Motorola Semiconductor Products Inc Phoenix AZ.....	602-244-69
Omron Electronics Inc Schaumburg IL.....	312-843-79
Proteon Inc Natick MA.....	617-655-33
Simco/Ramic Corp Medford OR.....	503-776-98
Sperry Corp Aerospace & Marine Group Phoenix AZ.....	602-869-23
Stock Drive Products Inc Div Designtronics New Hyde Park NY.....	516-328-02
Stratus Computer Inc Marlboro MA.....	617-460-20
Tenor Co Inc New Berlin WI.....	414-782-38
Xcel Controls Inc Mishawaka IN.....	219-259-78
Xico Inc Chatsworth CA.....	818-709-44

CONTROLLERS—PERIPHERAL

CONNECTICUT MICROCOMPUTER INC NEW MILFORD CT.....	203-354-93
ADV PG 150	
INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA.....	818-991-9614
OMEGA ENGINEERING INC STAMFORD CT.....	203-359-16
ADV PG Gatefold	
Adaptex Inc Milpitas CA.....	408-946-86
Advanced Control Systems Corp Randolph MA.....	617-963-45
Advanced Electronics Design Inc Sunnyvale CA.....	408-733-35
Amerace Corp Hackettstown NJ.....	201-852-12
American Solenoid Co Inc Somerset NJ.....	201-560-12
Analogic Corp Peabody MA.....	617-532-55
Azonix Corp Burlington MA.....	617-273-55
Boeing Electronics Tukwila WA.....	206-575-87
Braegen Corp Milpitas CA.....	408-945-19
Compu-Mech Inc Toledo OH.....	419-535-67
Connecticut microComputer Inc New Milford CT.....	203-354-93
Cybernetic Micro Systems Inc San Gregorio CA.....	415-726-30
Digital Equipment Corp Maynard MA.....	617-897-51
Eder Industries Oak Creek WI.....	414-761-04
ElectroSpace Systems Inc Richardson TX.....	214-783-20
Elecor Associates Morris Plains NJ.....	201-299-16
Enterprise Systems Corp Dover NH.....	603-742-73
Everett/Charles Marketing Services Inc Fontana CA.....	714-899-25
The Foxboro Co Foxboro MA.....	617-543-87
GE Co Automation Controls Oper Charlottesville VA.....	804-978-50
Granville-Phillips Co Boulder CO.....	303-443-76
Hewlett-Packard Palo Alto CA.....	415-857-80
Idec Izumi Corp Osaka Japan.....	81-6-200553
International Instrumentation Inc Westlake Village CA.....	818-991-9614
Kessler-Ellis Products Co Atlantic Highlands NJ.....	201-291-05
Kinetic Systems Corp Lockport IL.....	815-838-00
Liken Industries Tustin CA.....	714-832-92
MDX Systems Inc Orange CA.....	714-998-69
Mesa Technology Corp Gaithersburg MD.....	800-638-20
Motorola Semiconductor Products Inc Phoenix AZ.....	602-244-69
Northern Precision Labs Inc Fairfield NJ.....	201-227-48
Omega Engineering Inc Stamford CT.....	203-359-16
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-36
Plessey Microsystems Pearl River NY.....	914-735-48
Risk Industries Inc George Kimball NE.....	308-235-46
Systech Corp San Diego CA.....	619-453-89
Western Digital Corp Irvine CA.....	714-863-01
Ziatech Corp San Luis Obispo CA.....	805-541-04

CONTROLLERS—PROGRAMMABLE

See Programmers Listings

CONTROLS—A-F (EXCEPT FOLLOWING TYPES LISTED)

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ECH LABORATORIES INC	
PALISADES PARK NJ	201-944-2221
Control Technology Co Inc	
Long Island City NY	718-361-2133
CP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Instrumentation & Control Systems Inc	
Addison IL	312-543-6200
3D Mechanalysis Inc Columbus OH	614-885-5376
urz Instruments Inc Carmel Valley CA	408-659-3421
hurmig Mfg Co Inc Inwood NY	516-239-6161
rotech Audio Corp St James NY	516-584-5855
eliance Electric Co Cleveland OH	800-245-4497
ounddier Div Amer Trading Prod Corp	
St Louis MO	314-962-9870
eco Div Components Specialties Inc	
Lindenhurst NY	516-957-8700
pectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA	619-268-7100
ech Laboratories Inc Palisades Park NJ	201-944-2221
orkman Electronic Products Inc	
Sarasota FL	800-237-6866

CONTROLS—A-F, SOUND-ACTUATED

-Systems Inc Charlottesville VA	804-295-7200
olumbia Research Labs Inc Woodlyn PA	215-872-3900
rotech Audio Corp St James NY	516-584-5855
auland-Borg Corp Chicago IL	312-267-1300

CONTROLS—AUDIO SYSTEM CONSOLES (COMPLETELY WIRED)

roadcast Electronics Inc Quincy IL	217-224-9600
ommunications Equipment Co Inc	
Glen Arbor MI	616-334-3081
rim Corp Medford NJ	609-267-7950
ustrial Computer Designs Inc	
Westlake Village CA	818-889-3179
ear Siegler Inc Santa Monica CA	213-452-5444
utone Div Scovill Mfg Co Cincinnati OH	513-527-5100
ipamp Labs Inc Los Angeles CA	213-934-3566
araplegics Mfg Co Inc Bensenville IL	312-625-7740
rotech Audio Corp St James NY	516-584-5855
auland-Borg Corp Chicago IL	312-267-1300
afetran Sys Corp Electronic Div	
Cucamonga CA	714-987-4673
CI Systems Inc Huntsville AL	205-882-4800

CONTROLS—COMBUSTION & SMOKE

utomatic Switch Co Florham Park NJ	201-966-2000
utronics Corp Arcadia CA	818-445-5470
alley Controls Co Wickliffe OH	216-585-8500
e-Tec-Tronic Corp Elgin IL	312-695-9150
electronics Corp of America Waltham MA	617-466-8000
anual Inc Ashland MA	617-881-2000
ne Foxboro Co Foxboro MA	617-543-8750
oneycomb Systems Inc Biddeford ME	207-282-1521
eds & Northrup Instruments	
North Wales PA	215-643-2000
aster Electronic Controls Los Angeles CA	213-452-1336
core Products Co Spring House PA	215-646-7400
utone Div Scovill Mfg Co Cincinnati OH	513-527-5100
otomation Inc Mountain View CA	415-967-8992
ronics Inc Industrial Controls Div	
Cleveland OH	216-662-8800
IL Electronics Inc Warrington PA	215-343-5075

CONTROLS—COMPUTER CONSOLES (COMPLETELY WIRED)

utomatic Control Electronics Co	
San Antonio TX	512-661-4111
alley Controls Co Wickliffe OH	216-585-8500
oston Digital Corp Milford MA	617-473-4561
ristol Babcock Inc Waterbury CT	203-575-3000
atratran Labs Inc Sussex NJ	914-856-4313
e-Tec-Tronic Corp Elgin IL	312-695-9150
CO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Idex Corp Lynnwood WA	206-743-1313
ischer & Porter Co Warminster PA	215-674-6000
ne Foxboro Co Foxboro MA	617-543-8750
ederal Digital Industries Inc Huntsville AL	205-837-8305
arrel Inc East Norwalk CT	203-866-2573
oneycomb Systems Inc Biddeford ME	207-282-1521
elligent Controls Inc Saco ME	207-283-0156
eliance Electric Co Cleveland OH	800-245-4497
l/Control Systems Div Research Inc	
Minneapolis MN	612-941-3300
obitech Inc Wilmington MA	617-657-6143
erial Engineering Co Coatesville PA	215-383-6842
erial Lab Products Inc Marlboro MA	617-481-1684
erry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
urgonics Ltd Mt Kisco NY	914-241-3203
yscon International Inc South Bend IN	219-232-3800
ystems Research Labs Inc Dayton OH	513-426-6000
elasis Controls Corp Chillicothe OH	614-642-3200
ebbb Co Jervis B Farmington Hills MI	313-553-1220

CONTROLS—COMPUTER PROCESS (FOR EQUIPMENT)

Acromag Inc Wixom MI	313-824-1541
Advanced Peripherals Inc Cleveland OH	216-721-6665
American Solenoid Co Inc Somerset NJ	201-560-1240
Azonix Corp Burlington MA	617-273-5550
Berkeley Process Control Inc Richmond CA	415-526-3333
Bristol Babcock Inc Waterbury CT	203-575-3000
Burr-Brown Corp Tucson AZ	602-746-1111
Caldwell Systems Corp San Ramon CA	415-833-1850
California Data Corp Newbury Park CA	805-498-3651
Compu-Mech Inc Toledo OH	419-535-6702
Computer Numerical Control Corp	
Woburn MA	617-933-0091
Control Technology Corp Hopkinton MA	617-435-9595
Control Technology Div AirBorn Elect Corp	
Garland TX	214-272-5544
Datatron Labs Inc Sussex NJ	914-856-4313
DEA Equipment Div ASI Tempe AZ	602-967-8818
Eder Industries Oak Creek WI	414-761-0400
Elxor Associates Morris Plains NJ	201-299-1615
Enterprise Systems Corp Dover NH	603-742-7363
Erbtech Engineering Inc Boulder CO	303-447-8750
Eurotherm Corp Reston VA	703-471-4870
Everett/Charles Marketing Services Inc	
Fontana CA	714-899-2521
The Foxboro Co Foxboro MA	617-543-8750
Fuji Electric Corp of America Los Angeles CA	213-622-4490
Gordos Arkansas Inc Rogers AR	501-636-5000
Honeycomb Systems Inc Biddeford ME	207-282-1521
Industrial Computer Designs Inc	
Westlake Village CA	818-889-3179
Kinetic Systems Corp Lockport IL	815-838-0005
Moore Products Co Spring House PA	215-646-7400
Plessey Microsystems Pearl River NY	914-735-4661
Robitech Inc Wilmington MA	617-657-6143
Rugid Computer Sacramento CA	916-344-5064
Simco/Ramic Corp Medford OR	503-776-9800
Spartan Technology Inc Rio Rancho NM	505-892-5300
Strawberry Tree Computers Sunnyvale CA	408-736-3083
Streeter Richardson Div Grayslake IL	312-223-4801
Technology 80 Inc Minneapolis MN	612-542-9545
Transensory Devices Inc Fremont CA	415-490-3333
Unico Inc Franksville WI	414-886-5678

CONTROLS—COUNTING & SORTING (EXCEPT PHOTOELECTRIC)

See Also Counters

DCI INC OLATHE KS	913-782-5672
Abrams Instrument Corp Lansing MI	517-332-6405
A C D Corp Dayton OH	513-222-2600
Amerace Corp Hackettstown NJ	201-852-1122
A-Systems Inc Charlottesville VA	804-295-7200
Automatic Control Electronics Co	
San Antonio TX	512-661-4111
B & B Motor & Control Corp Burlington CT	718-784-1313
Compu-Mech Inc Toledo OH	419-535-6702
Control Technology Corp Hopkinton MA	617-435-9595
C-Tek Inc Wakefield MA	617-246-1720
Datatron Labs Inc Sussex NJ	914-856-4313
DCI Inc Olathe KS	913-782-5672
De-Tec-Tronic Corp Elgin IL	312-695-9150
DNH Industries Inc Torrance CA	213-328-0750
Durant Products-Eaton Corp Watertown WI	414-261-4070
Dynapar Corp Gurnee IL	312-662-2666
Eagle Signal Controls Div Wickes Mfg Co	
Austin TX	512-837-8300
Electro Corp Sarasota FL	813-355-8411
Electronic Controls Corp	
Hoffman Estates IL	312-882-5757
Electronic Counters & Controls Inc	
Mundelein IL	312-362-8910
Hyde Park Electronics Inc Dayton OH	513-435-2121
Instrumentation & Control Systems Inc	
Addison IL	312-543-6200
Intelligent Controls Inc Saco ME	207-283-0156
International Microtronics Corp Tucson AZ	602-748-7900
I/O Industries Inc Eatontown NJ	201-542-5151
Kessler-Elis Products Co	
Atlantic Highlands NJ	201-291-0500
Klockner-Moeller Natick MA	617-655-1910
Master Electronic Controls Los Angeles CA	213-452-1336
MEKontrol Inc Northboro MA	617-393-2451
MKC Electronics Corp Kansas City KS	913-371-1351
NES Inc Carpentersville IL	312-426-5900
Omron Electronics Inc Schaumburg IL	312-843-7900
Peco Controls Corp Milpitas CA	408-262-4050
Redington Counters Inc Windsor CT	203-688-6205
RI/Control Systems Div Research Inc	
Minneapolis MN	612-941-3300
RIL Electronics Inc Warrington PA	215-343-5075
Robitech Inc Wilmington MA	617-657-6143
SAS Systems Inc Norcross GA	404-448-4190
Sensor Corp Scottsdale PA	412-887-4080
Simco/Ramic Corp Medford OR	503-776-9800
Solid Controls Inc Minneapolis MN	612-941-6110
Square D Co Palatine IL	312-397-2600
SSAC Inc Liverpool NY	315-622-1000
Swiss Controls Inc Michigan City IN	219-872-5544
Telesis Controls Corp Chillicothe OH	614-642-3200
Transducer Systems Inc Kulpsville PA	215-256-6111
Veeder-Roth Hartford CT	203-527-7201
Versa Machinery Div Foster & Allen Inc	
Somerville NJ	201-526-6100
Webb Co Jervis B Farmington Hills MI	313-553-1220

CONTROLS—DIMENSION

SCHAEVITZ ENGINEERING	
PENNSAUKEN NJ	609-662-8000

Aerotech Inc Pittsburgh PA	412-963-7470
Anilam Electronics Corp Miami FL	305-592-2727
Arvin/Diamond Lancaster OH	614-756-9222
AstroSystems Inc Lake Success NY	516-328-1600
C-Tek Inc Wakefield MA	617-246-1720
Data Technology Inc Woburn MA	617-935-8820
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dynapar Corp Gurnee IL	312-662-2666
EGG Reticon Sunnyvale CA	408-738-4266
Electro Corp Sarasota FL	813-355-8411
Engineered Technical Products Inc	
Somerville NJ	201-725-0330
The Foxboro Co Foxboro MA	617-543-8750
Moore Products Co Spring House PA	215-646-7400
RIL Electronics Inc Warrington PA	215-343-5075
Schaevitz Engineering Pennsauken NJ	609-662-8000
Selective Electronic Inc Valdes NC	704-874-4102
Sensor Corp Scottsdale PA	412-887-4080
Simco/Ramic Corp Medford OR	503-776-9800
Stocker & Yale Inc Beverly MA	617-927-3940
Systems Research Labs Inc Dayton OH	513-426-6000
Veeder-Roth Hartford CT	203-527-7201
Versa Machinery Div Foster & Allen Inc	
Somerville NJ	201-526-6100

CONTROLS—DENSITY (EXCEPT PHOTOELECTRIC)

Automation Products Inc Houston TX	713-869-0361
Azonix Corp Burlington MA	617-273-5550
Caldwell Systems Corp San Ramon CA	415-833-1850
De-Tec-Tronic Corp Elgin IL	312-695-9150
The Foxboro Co Foxboro MA	617-543-8750
ITT Barton Instruments Co	
City of Industry CA	818-961-2547
National Sonics Div Xertex Corp	
Hempstead NY	516-273-6600
OAI Santa Clara CA	408-988-6900
Princo Instruments Inc Southampton PA	215-355-1500
RIL Electronics Inc Warrington PA	215-343-5075

CONTROLS—FLUID-FLOW (EXCEPT SOLENOID VALVES)

OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
Action Instruments Inc San Diego CA	619-279-5726
American Hydromath Co Pawlet VT	802-325-3003
Automatic Control Electronics Co	
San Antonio TX	512-661-4111
Automatic Switch Co Florham Park NJ	201-966-2000
Azonix Corp Burlington MA	617-273-5550
Bailey Controls Co Wickliffe OH	216-585-8500
Boston Gear Quincy MA	617-328-3300
Bristol Babcock Inc Waterbury CT	203-575-3000
Brooks Instrument Div Hatfield PA	215-362-3500
Chromalox Instruments & Control	
Laverne TN	615-793-3900
Computer Instruments Corp I & C Div	
Hempstead NY	516-483-8200
Computer System Assoc Inc San Diego CA	619-566-3911
Control Technology Corp Hopkinton MA	617-435-9595
Datatron Labs Inc Sussex NJ	914-856-4313
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dietz Co Inc Henry G Long Island City NY	718-726-3347
Digital Blending Systems Inc	
East Providence RI	401-434-3440
Digital Dynamics Inc Scotts Valley CA	408-438-6823
Dixon Inc Grand Junction CO	303-242-8863
Drexelbrook Engineering Co Horsham PA	215-674-1234
Dynamic Controls Corp South Windsor CT	203-528-9971
Electronic Counters & Controls Inc	
Mundelein IL	312-362-8910
Endress & Hauser Inc Greenwood IN	317-535-7138
Fischer & Porter Co Warminster PA	215-674-6000
Flow Technology Inc Phoenix AZ	602-437-1315
The Foxboro Co Foxboro MA	617-543-8750
Gilmont Instruments Inc Great Neck NY	516-487-0120
Harwil Co Santa Monica CA	213-829-2310
Hoffer Flow Controls Port Monmouth NJ	201-787-1997
Honeywell Process Control Div	
Ft Washington PA	215-641-3000
Instrumentation & Control Systems Inc	
Addison IL	312-543-6200
International Microtronics Corp Tucson AZ	602-748-7900
Invalco Msmt & Control Combustion Engrg Inc	
Tulsa OK	918-834-5671
ITT Barton Instruments Co	
City of Industry CA	818-961-2547
Kessler-Elis Products Co	
Atlantic Highlands NJ	201-291-0500
Kurz Instruments Inc Carmel Valley CA	408-659-3421
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Marlton Inc Santa Ana CA	714-546-7117
McDonnell & Miller ITT Chicago IL	312-287-1600
MKS Instruments Inc Burlington MA	617-272-9255
Montedoro-Whitney Corp	
San Luis Obispo CA	805-543-1233
Moore Products Co Spring House PA	215-646-7400
NES Inc Carpentersville IL	312-426-5900
Omega Engineering Inc Stamford CT	203-359-1660
Pressure Controls Inc Belleville NJ	201-751-5003
RI/Control Systems Div Research Inc	
Minneapolis MN	612-941-3300
Robitech Inc Wilmington MA	617-657-6143
Rugid Computer Sacramento CA	916-344-5064
SAS Systems Inc Norcross GA	404-448-4190
Singer Co Controls Div Schiller PK IL	312-678-4150
Skinner Valve Div Honeywell Inc	
New Britain CT	203-827-2310
Square D Co Palatine IL	312-397-2600
Synthatron Corp Parsippany NJ	201-335-5000

Proportional Joysticks

Small Size

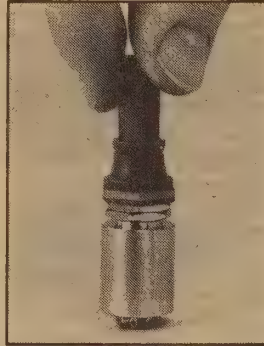
Big Performance

They're only a little over an inch long and weigh under an ounce, but their performance is king-size.

Operation is easy and natural, promoting higher speed and accuracy in positioning and tracking tasks. Resolution is infinite, with continuous output and no dead zone. Rugged construction allows flawless operation even in severe environments. And mean time between failures is 200,000 hours, with a minimum of 10,000,000 cycles.

Small wonder these joysticks have been used so successfully in computer graphics, visual displays, fire control systems, hoists, vehicle control and robots, among other applications. Chances are they could be useful to you, too.

Want to find out? Just call or write us for more information.



MS **Measurement Systems, Inc.**
121 Water Street, Norwalk, CT 06854 203-838-5561

Transamerica Delaval Inc Gems Sensors Div	
Plainville CT	203-677-1311
Trans-Met Engineering Inc La Habra CA	213-691-2266
Veeder-Root Hartford CT	203-527-7201
Wallace & Tiernan Div Pennwalt Corp	
Belleville NJ	201-759-8000
Watlow Electric Winona MN	507-454-5300
Waugh Controls Corp Chatsworth CA	818-998-8281
West Coast Research Corp Los Angeles CA	213-478-8833
Zi-Tech Instrument Corp Palo Alto CA	415-326-2151

CONTROLS—HUMIDITY

SUPERIOR ELECTRIC CO THE	
BRISTOL CT	203-582-9561
Abbeon Cal Inc Santa Barbara CA	805-966-0810
Airflow Co Frederick MD	301-831-3100
Analogic Corp Peabody MA	617-532-5660
Azonix Corp Burlington MA	617-273-5550
Bristol Babcock Inc Waterbury CT	203-575-3000
Chromalox Instruments & Control	
Laverne TN	615-793-3900
Datatran Labs Inc Sussex NJ	914-856-4313
Endress & Hauser Inc Greenwood IN	317-535-7138
Ensercorp Instruments Ltd Islington ON	416-231-5335
The Foxboro Co Foxboro MA	617-543-8750
General Eastern Instruments Corp	
Watertown MA	617-923-2386
Harel Inc East Norwalk CT	203-866-2573
Honeywell Process Control Div	
Ft Washington PA	215-641-3000
Hy-Cal Engineering El Monte CA	818-444-4000
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Master Electronic Controls Los Angeles CA	213-452-1336
Phys-Chemical Research Corp New York NY	212-924-2070
RI/Control Systems Div Research Inc	
Minneapolis MN	612-941-3300
Sparton of Canada Ltd London ON	519-455-6320
Sparton Technology Inc Rio Rancho NM	505-892-5300
Superior Electric Co The Bristol CT	203-582-9561
Thunder Scientific Corp Albuquerque NM	505-265-8701
Trio-Tech International Burbank CA	213-846-9200
Warren Components Corp Warren PA	814-723-6200
Watlow Electric Winona MN	507-454-5300

CONTROLS—INPUT

MEASUREMENT SYSTEMS INC	
NORWALK CT	203-838-5561
ADV PG 132	
Advanced Peripherals Inc Cleveland OH	216-721-6665
Alphacontrol Systems Inc Fairfield CT	203-336-2075
Azonix Corp Burlington MA	617-273-5550

Bolt Industrial Controls Inc Simi Valley CA	818-716-5169
Burr-Brown Corp Tucson AZ	602-746-1111
Compu-Mech Inc Toledo OH	419-535-6702
Disc Instruments, A Honeywell Sub	
Costa Mesa CA	714-979-5300
The Foxboro Co Foxboro MA	617-543-8750
Hi-Shear Technology Corp Torrance CA	213-326-8110
Kinetic Systems Corp Lockport IL	815-838-0005
Measurement Systems Inc Norwalk CT	203-838-5561
Square D Co Palatine IL	312-397-2600
Stocker & Yale Inc Beverly MA	617-927-3940
Technology 80 Inc Minneapolis MN	612-542-9545
Transensory Devices Inc Fremont CA	415-490-3333

CONTROLS—LEVEL, DRY MATERIALS

Analogic Corp Peabody MA	617-532-5660
Automation Devices Inc Fairview PA	814-474-5561
Automation Products Inc Houston TX	713-869-0361
Autotron Inc Danville IL	217-446-0650
Azonix Corp Burlington MA	617-273-5550
Indicator Port Huron MI	313-987-2700
Control Technology Corp Hopkinton MA	617-435-9595
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dietz Co Inc Henry G Long Island City NY	718-726-3347
Dillon & Co Inc W C Santa Rosa CA	707-527-5555
Dixon Inc Grand Junction CO	303-242-8863
Drexelbrook Engineering Co Horsham PA	215-674-1234
Electromatic Controls Corp	
Hoffman Estates IL	312-882-5757
Electromatic Equipment Co Inc	
Cedarhurst NY	516-295-4300
Electronics Corp of America Waltham MA	617-466-8000
Endress & Hauser Inc Greenwood IN	317-535-7138
Engineering Design Denver CO	303-427-1955
The Foxboro Co Foxboro MA	617-543-8750
FSI/Fork Standards Inc Lombard IL	312-932-9380
Gordon Products Inc Brookfield CT	203-775-4501
Invalco Msmt & Control Combustion Engrg Inc	
Tulsa OK	918-834-5671
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
Kistler-Morse Corp Redmond WA	206-881-8000
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Litton Systems Inc Potomac MD	
Mt Vernon NY	914-664-7733
Mag-Con Inc St Paul MN	612-633-8820
National Sonics Div Xertex Corp	
Hauppauge NY	516-273-6600
Photobell Co Inc Fairfield NJ	201-227-3613
Princo Instruments Inc Southampton PA	215-355-1500
RIL Electronics Inc Warrington PA	215-343-5075
Scientific Technology Inc Mtn View CA	415-965-0910
Skan-A-Matic Corp Elbridge NY	315-689-3961
Streeter Richardson Div Grayslake IL	312-223-4801

Veeder-Root Hartford CT	203-527-7201
Watlow Electric Winona MN	507-454-5300
Zi-Tech Instrument Corp Palo Alto CA	415-326-2151

CONTROLS—LEVEL, LIQUIDS

ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1313
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1616
ADV PG Gatefold	
A C D Corp Dayton OH	513-222-2626
Action Instruments Inc San Diego CA	619-279-9999
Air-O-Tronics Div Trush Inc Cazenovia NY	315-655-2311
American Hydromath Co Pawlet VT	802-325-3030
Analogic Corp Peabody MA	617-532-5660
Andonian Cryogenics Inc Newtonville MA	617-969-8080
A-Systems Inc Charlottesville VA	804-295-7272
Autocon Industries Inc St Paul MN	612-642-1717
Automatic Switch Co Florham Park NJ	201-966-2020
Automation Products Inc Houston TX	713-869-0361
Autotron Inc Danville IL	217-446-0650
Azonix Corp Burlington MA	617-273-5550
Bailey Controls Co Wickliffe OH	216-585-8585
Banner Engineering Corp Minneapolis MN	612-544-3131
Bindicator Port Huron MI	313-987-2700
BLH Electronics Canton MA	617-821-2020
Bristol Babcock Inc Waterbury CT	203-575-3000
Brooks Instrument Div Hatfield PA	215-362-3535
Caldwell Systems Corp San Ramon CA	415-833-1818
Cambridge Scientific Industries	
Cambridge MD	301-228-5151
Chromalox Instruments & Control	
Laverne TN	615-793-3900
Columbia Research Labs Inc Woodlyn PA	215-872-3939
Computer Instruments Corp I & C Div	
Hempstead NY	516-483-8282
Control Technology Corp Hopkinton MA	617-435-9595
Crouse-Hinds Co Syracuse NY	315-477-7070
Curtis Industries Inc Milwaukee WI	414-354-1515
Data Instruments Inc Lexington MA	617-861-7474
Datatran Labs Inc Sussex NJ	914-856-4313
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dietz Co Inc Henry G Long Island City NY	718-726-3347
Dillon & Co Inc W C Santa Rosa CA	707-527-5555
Dixon Inc Grand Junction CO	303-242-8863
Dolan Jenner Industries Inc Woburn MA	617-935-7474
Drexelbrook Engineering Co Horsham PA	215-674-1234
Dumont Instrumentation Inc Commack NY	516-864-8585
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6060
Electric Switches Inc Los Angeles CA	213-660-1313
Electromatic Controls Corp	
Hoffman Estates IL	312-882-5757
Electromatic Equipment Co Inc	
Cedarhurst NY	516-295-4300
Electronics Corp of America Waltham MA	617-466-8000
Endress & Hauser Inc Greenwood IN	317-535-7138
Engineering Design Denver CO	303-427-1955
Fischer & Porter Co Warminster PA	215-674-6060
The Foxboro Co Foxboro MA	617-543-8750
FSI/Fork Standards Inc Lombard IL	312-932-9380
Furnas Electric Co Batavia IL	312-879-6060
Gordon Products Inc Brookfield CT	203-775-4501
GPE Controls A Brunswick Co	
Morton Grove IL	312-966-4040
Harvil Co Santa Monica CA	213-829-2323
H B S Equipment Corp Los Angeles CA	213-726-3030
Honeywell Process Control Div	
Ft Washington PA	215-641-3000
Industrial Control Co Rockledge FL	305-259-7171
Invalco Msmt & Control Combustion Engrg Inc	
Tulsa OK	918-834-5671
ITT Barton Instruments Co	
City of Industry CA	818-961-2525
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
Kistler-Morse Corp Redmond WA	206-881-8000
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Luf Instruments Inc Lincoln MA	617-259-9292
Mag-Con Inc St Paul MN	612-633-8820
Magnetoelectric Devices Inc Pittsfield MA	413-445-5656
Marrion Inc Santa Ana CA	714-546-7171
Master Electronic Controls Los Angeles CA	213-452-1336
McDonnell & Miller ITT Chicago IL	312-267-1616
Metrilap Inc Littleton MA	617-369-7575
Moore Products Co Spring House PA	215-646-7474
National Sonics Div Xertex Corp	
Hauppauge NY	516-273-6600
Omega Engineering Inc Stamford CT	203-359-1616
Omnion Electronics Inc Schaumburg IL	312-843-7979
Photobell Co Inc Fairfield NJ	201-227-3613
Pres-Air-Trol Corp Mamaroneck NY	914-698-2020
Princo Instruments Inc Southampton PA	215-355-1500
Rehlander Assocs Inc Beverly MA	617-922-5959
RIL Electronics Inc Warrington PA	215-343-5075
Rugl Computer Sacramento CA	916-344-5050
SAS Systems Inc Norcross GA	404-448-4111
Scientific Instruments Inc	
West Palm Beach FL	305-659-5858
Scientific Technology Inc Mtn View CA	415-965-0910
Singer Co Controls Div Schiller Pk IL	312-678-4141
Skan-A-Matic Corp Elbridge NY	315-689-3961
Square D Co Palatine IL	312-397-2600
SSAC Inc Liverpool NY	315-622-1212
Streeter Richardson Div Grayslake IL	312-223-4801
Temposonics Div MTS Sys Corp Plainview NY	516-349-1919
Time Mark Corp Tulsa OK	918-438-1212
Transamerica Delaval Inc Gems Sensors Div	
Plainville CT	203-677-1311
United Electric Controls Co Watertown MA	617-926-1010
Veeder-Root Hartford CT	203-527-7201
Warrior Controls Inc Berkeley MI	313-545-5252
Watlow Electric Winona MN	507-454-5300
Zi-Tech Instrument Corp Palo Alto CA	415-326-2151

CONTROLS—MACHINE TOOL, NUMERICAL

AEG CORPORATION SOMERVILLE NJ	201-722-9800
COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
A C D Corp Dayton OH	513-222-2800
AEG Corporation Somerville NJ	201-722-9800
Aerotech Inc Pittsburgh PA	412-963-7470
Analogic Corp Peabody MA	617-532-5660
Anilam Electronics Corp Miami FL	305-592-2727
Anorad Corp Hauppauge NY	516-231-1995
Astron Systems Inc Lake Success NY	516-328-1600
Automation Systems Inc Eldridge IA	319-285-8171
Automation Unit Inc Woburn MA	617-933-7288
Autonumerics Inc Hauppauge NY	516-234-4343
Benton Corp Warrendale PA	412-776-5577
Boston Digital Corp Milford MA	617-473-4561
Comark Corp Medfield MA	617-359-8161
Computer Conversions Corp	
East Northport NY	516-261-3300
Computer Numerical Control Corp	
Woburn MA	617-933-0091
Control Sciences Inc Chatsworth CA	818-709-5510
Copley Controls Corp Newtown MA	617-965-2410
Creonics Inc Lebanon NH	603-448-6300
Crouse-Hinds Co Syracuse NY	213-877-1786
Cybernetic Micro Systems Inc	
San Gregorio CA	415-726-3000
CyberPak Co Brookfield IL	312-387-0802
Data Technology Inc Woburn MA	617-935-8820
JNH Industries Inc Torrance CA	213-328-0750
Jynapar Corp Gurnee IL	312-662-2666
Computer/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Electronic Counters & Controls Inc	
Signal Hill CA	213-595-0551
Mundelein IL	312-362-8910
urnas Electric Co Batavia IL	312-879-6000
IE Co Automation Controls Oper	
Charlottesville VA	804-978-5000
hielmetti Inc Los Angeles CA	213-463-5111
Intek Inc El Segundo CA	312-322-3026
on Corp Cambridge MA	617-868-5400
Instrumentation & Control Systems Inc	
Addison IL	312-543-6200
lockner-Moeller Natick MA	617-655-1910
VC Industries Inc Co-Ord Switch Div	
Freeport NY	516-868-1900
agnum Opus Custom Electronic Engrg	
Iselin NJ	201-283-4925
ACDonnell Douglas Corp Industrial Control Prods	
Monrovia CA	213-359-8216
esur-Matic Electronics Corp Salem MA	617-745-7000
northern Precision Labs Inc Fairfield NJ	201-227-4800
Reliance Electric Co Cleveland OH	800-245-4497
Robicon Corp Pittsburgh PA	412-327-7000
Sequential Information Systems Inc	
Elmsford NY	914-592-5930
erial Lab Products Inc Marlboro MA	617-481-1684
paulling Instruments Pasadena CA	213-351-8924
quare D Co Palatine IL	312-397-2600
tock Drive Products Inc Div Designatronics	
New Hyde Park NY	516-328-0200
trippitt Akron NY	716-542-4511
chnology 80 Inc Minneapolis MN	612-542-9545
eternalcor Corp Greenland NH	603-431-1200
oko America Inc Mt Prospect IL	212-297-0070
rimination Inc Danbury CT	203-744-1800
eder-Root Hartford CT	203-227-7201
ebb Co Jervis B Farmington Hills MI	313-553-1220
ire Graphics Inc Farmingdale NY	516-293-1525
cel Controls Inc Mishawaka IN	219-259-7804

CONTROLS—MOTOR SPEED, ANALOG, FOR ELECTRONIC EQUIPMENT

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
SUPERIOR ELECTRIC CO THE	
BRISTOL CT	203-582-9561
AEG Corporation Somerville NJ	201-722-9800
Aeroflex Labs Inc Plainview NY	516-694-6700
Aeroflex Labs Magnetic Products Div	
Plainview NY	516-694-6700
Allen-Bradley Co Milwaukee WI	414-382-2000
Applied Controls Co Inc Fairfield NJ	201-227-5454
A-Systems Inc Charlottesville VA	804-295-7200
Autocore Industries Inc St Paul MN	612-642-1784
Automation Systems Inc Eldridge IA	319-285-8171
Automation Unit Inc Woburn MA	617-933-7288
Autronics Corp Arcadia CA	818-445-5470
Avtron Mfg Inc Cleveland OH	216-641-8310
B & B Motor & Control Corp Burlington CT	718-784-1313
Benton Corp Warrendale PA	412-776-5577
Bidicator Port Huron MI	313-987-2700
Bodine Electric Co Chicago IL	312-478-3515
Bolt Industrial Controls Inc Simi Valley CA	818-716-5169
Boston Gear Quincy MA	617-328-3300
Compu-Mech Inc Toledo OH	419-535-6702
Computer Corp Petaluma CA	707-778-1244
Control Technology Co Inc	
Long Island City NY	718-361-2133
Control Technology Corp Hopkinton MA	617-435-9595
Control Technology Div AirBorn Elect Corp	
Garland TX	214-272-5544
Controltek Inc Portland OR	503-641-0876
Copley Controls Corp Newtown MA	617-965-2410
Creonics Inc Lebanon NH	603-448-6300
Crouse-Hinds Co Syracuse NY	315-477-7000
Curry Engineering Co N Hollywood CA	213-877-1786
Datatron Labs Inc Sussex NJ	914-856-4313
De-Tec-Tronic Corp Elgin IL	312-695-9150

DNH Industries Inc Torrance CA	213-328-0750
Doerr Electric Corp Cedarburg WI	414-377-0500
Doric Scientific Div Emerson Elec Co	
San Diego CA	619-565-4415
Douglas Randall Div Pawcatuck CT	203-599-2075
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
EG & G Torque Systems Watertown MA	617-924-6000
Electro Corp Sarasota FL	813-355-8411
Electro-Graft Corp Hopkins MN	612-931-2700
Electronic Counters & Controls Inc	
Mundelein IL	312-362-8910
Electrospace Systems Inc Richardson TX	214-783-2004
Emerson Industrial Controls Santa Ana CA	714-545-5581
ETI Systems Oceanside CA	619-757-7770
Fincor Inc Int'l Inc York PA	717-757-4641
Firing Circuits Inc Norwalk CT	203-846-1633
Gentron Corp Milwaukee WI	414-351-1860
Glentek Inc El Segundo CA	213-322-3026
HEI Inc Victoria MN	612-443-2500
Heller Corp G K Floral Park NY	800-323-6674
Honeywell Control Div	
Wilmington PA	215-641-3000
Huietron Inc Danville IL	217-446-6500
Hyde Park Electronics Inc Dayton OH	513-435-2121
Industrial Control Co Rockledge FL	305-259-7105
Inland Motor Specialty Prods Div-Kollmorgen Corp	
Radford VA	703-639-9045
Instrumentation & Control Systems Inc	
Addison IL	312-543-6200
Kalgo Electronics Co Inc Bethlehem PA	215-837-0700
Larson Instrument Co Inc Orangeburg NY	914-359-3800
Lutron Electronics Co Inc Coopersburg PA	215-282-3800
LVC Industries Inc Co-Ord Switch Div	
Freeport NY	516-868-1900
Master Electronic Controls Los Angeles CA	213-452-1336
MEKontrol Inc Northboro MA	617-393-2451
Micro Mo Electronics Inc St Petersburg FL	813-822-2529
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
MPC Products Corp Skokie IL	312-673-8300
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Omrone Electronics Inc Schaumburg IL	312-843-7900
Orme Systems Corp Rochester NY	716-385-3520
Payne Engineering Co Scott Depot WV	304-757-7353
Peco Controls Corp Milpitas CA	408-262-4050
PMI Motion Technologies Commack NY	516-864-1000
Power Control Corp Pittsburgh PA	412-782-3120
Power Functions Engineering Inc Garland TX	214-278-0996
Powr-UPS Corp Bohemia NY	516-589-3602
PPM Inc Cleveland OH	216-292-6006
Rae Corp McHenry IL	815-385-3500
Ramsey Controls Inc Mahwah NJ	201-529-4400
Reliance Electric Co Cleveland OH	800-245-4497
Robicon Corp Pittsburgh PA	412-327-7000
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Sequential Information Systems Inc	
Elmsford NY	914-592-5930
Shapiro Scientific Instruments	
Corona del Mar CA	714-675-1024
Sierracin/Magneddyne Carlsbad CA	619-438-3321
Silicon Systems Inc Tustin CA	714-731-7110
Speed Detectors Inc Bedford OH	216-232-4100
Stock Drive Products Inc Div Designatronics	
New Hyde Park NY	516-328-0200
Superior Electric Co The Bristol CT	203-582-9561
Synektron Corp Portland OR	503-684-3090
Techno Inc New Hyde Park NY	516-328-3300
Technology 80 Inc Minneapolis MN	612-542-9545
Torq Corp Bedford OH	216-232-1880
Transducer Systems Inc Kulpville PA	215-256-4611
TS Products Inc Arleta CA	818-896-6676
Unico Inc Frankville WI	414-886-5678
Vernitich Div Vernitron Corp Deer Park NY	516-586-5100
Watlow Electric Winona MN	507-454-5300
West Coast Research Corp Los Angeles CA	213-478-8833

CONTROLS—MOTOR SPEED, DIGITAL, FOR ELECTRONIC EQUIPMENT

AEG CORPORATION SOMERVILLE NJ	201-722-9800
BEI MOTION SYS CO DIGITAL PRODUCTS DIV	
LITTLE ROCK AR	501-851-4000
ADV PGS 176.177	
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
IMC MAGNETICS CORP WESTERN DIV	
CERRITOS CA	213-926-0927
ADV PG Back Cover	
MAXWELL ELECTRONICS	
RESEARCH TRIANGLE PARK NC	919-846-1633
SIGMA INSTRUMENTS INC MOTION CONTROL DIV	
BRAINTREE MA	617-843-5000
SUPERIOR ELECTRIC CO THE	
BRISTOL CT	203-582-9561
Advanced Control Systems Corp	
Randolph MA	617-963-4543
AEG Corporation Somerville NJ	201-722-9800
Aeroflex Labs Inc Plainview NY	516-694-6700
Aeroflex Labs Magnetic Products Div	
Plainview NY	516-694-6700
Analogic Corp Peabody MA	617-532-5660
A-Systems Inc Charlottesville VA	804-295-7200
Autocore Industries Inc St Paul MN	612-642-1784
Automation Systems Inc Eldridge IA	319-285-8171
Automation Unit Inc Woburn MA	617-933-7288
Autronics Corp Arcadia CA	818-445-5470
Avtron Mfg Inc Cleveland OH	216-641-8310
Axonix Corp Burlington MA	617-273-5550
B & B Motor & Control Corp Burlington CT	718-784-1313
BEI Motion Sys Co Digital Products Div	
Little Rock AR	501-851-4000
Benton Corp Warrendale PA	412-776-5577
Berger Lahr Corp Jaffrey NH	603-532-7701
Berkeley Process Control Inc Richmond CA	415-526-3333
Bidicator Port Huron MI	313-987-2700
Bolt Industrial Controls Inc Simi Valley CA	818-716-5169

Boston Digital Corp Milford MA	617-473-4561
Boston Gear Quincy MA	617-328-3300
Buckminster Corp Cambridge MA	617-864-2456
California Data Corp Newbury Park CA	805-498-3651
Computer Corp Petaluma CA	707-778-1244
Computer Optical Products Inc	
Chatsworth CA	818-882-0424
Control Technology Co Inc	
Long Island City NY	718-361-2133
Control Technology Corp Hopkinton MA	617-435-9595
Control Technology Div AirBorn Elect Corp	
Garland TX	214-272-5544
Controltek Inc Portland OR	503-641-0876
Copley Controls Corp Newtown MA	617-965-2410
Creonics Inc Lebanon NH	603-448-6300
Crouse-Hinds Co Syracuse NY	315-477-7000
Curry Engineering Co N Hollywood CA	213-877-1786
Cybernetic Micro Systems Inc	
San Gregorio CA	415-726-3000
CyberPak Co Brookfield IL	312-387-0802
Datatron Labs Inc Sussex NJ	914-856-4313
De-Tec-Tronic Corp Elgin IL	312-695-9150
DNH Industries Inc Torrance CA	213-328-0750
Dynapar Corp Gurnee IL	312-662-2666
EG & G Torque Systems Watertown MA	617-924-6000
Electro-Graft Corp Hopkins MN	612-931-2700
Electronic Counters & Controls Inc	
Mundelein IL	312-362-8910
Electrospace Systems Inc Richardson TX	214-783-2004
Elecor Associates Morris Plains NJ	201-299-1615
Emerson Industrial Controls Santa Ana CA	714-545-5581
Fincor Inc Int'l Inc York PA	717-757-4641
Flight Systems Mechanisburg PA	717-697-0333
Gail Motion Control Mountain View CA	415-964-6494
Glentek Inc El Segundo CA	213-322-3026
HEI Inc Victoria MN	612-443-2500
Heller Corp G K Floral Park NY	800-323-6674
Hyde Park Electronics Inc Dayton OH	513-435-2121
Icon Corp Cambridge MA	617-868-5400
IMC Magnetics Corp Western Div Cerritos CA	213-926-0927
Industrial Computer Designs Inc	
Westlake Village CA	818-889-3179
Inland Motor Specialty Prods Div-Kollmorgen Corp	
Radford VA	703-639-9045
Interface Engineering Inc Stoughton MA	617-344-7383
Maxwell Electronics	
Research Triangle Park NC	919-846-1633
Mesur-Matic Electronics Corp Salem MA	617-745-7000
Micro Mo Electronics Inc St Petersburg FL	813-822-2529
MKC Electronics Corp Kansas City KS	913-371-1351
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Omrone Electronics Inc Schaumburg IL	312-843-7900
Orme Systems Corp Rochester NY	716-385-3520
PMI Motion Technologies Commack NY	516-864-1000
Power Functions Engineering Inc Garland TX	214-278-0996
Powr-UPS Corp Bohemia NY	516-589-3602
PPM Inc Cleveland OH	216-292-6006
Rae Corp McHenry IL	815-385-3500
Ramsey Controls Inc Mahwah NJ	201-529-4400
Rapidsyn Div API Oceanside CA	619-439-7500
Reliance Electric Co Cleveland OH	800-245-4497
Robicon Corp Pittsburgh PA	412-327-7000
Sciaky Bros Inc Chicago IL	312-594-3800
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Sequential Information Systems Inc	
Elmsford NY	914-592-5930
Shapiro Scientific Instruments	
Corona del Mar CA	714-675-1024
Sierracin/Magneddyne Carlsbad CA	619-438-3321
Sigma Instruments Inc Motion Control Div	
Braintree MA	617-843-5000
Silicon Systems Inc Tustin CA	714-731-7110
Speed Detectors Inc Bedford OH	216-232-4100
Stock Drive Products Inc Div Designatronics	
New Hyde Park NY	516-328-0200
Struthers-Dunn Inc Pitman NJ	609-589-7500
Sulmar Systems Engineering Belmont MA	617-862-6358
Superior Electric Co The Bristol CT	203-582-9561
Synektron Corp Portland OR	503-684-3090
Techno Inc New Hyde Park NY	516-328-3300
Technology 80 Inc Minneapolis MN	612-542-9545
Torq Corp Bedford OH	216-232-1880
Transducer Systems Inc Kulpville PA	215-256-4611
TS Products Inc Arleta CA	818-896-6676
Unico Inc Frankville WI	414-886-5678
Vernitich Div Vernitron Corp Deer Park NY	516-586-5100
Vicon Industries Inc Melville NY	516-293-2200
Watlow Electric Winona MN	507-454-5300
Waugh Controls Corp Chatsworth CA	818-998-8281

CONTROLS—MOTOR SPEED, HEAVY DUTY

AEG CORPORATION SOMERVILLE NJ	201-722-9800
BASLER ELECTRIC CO HIGHLAND IL	618-654-2341
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
QUANTUM CORP TRENTON NJ	609-883-9191
SUPERIOR ELECTRIC CO THE	
BRISTOL CT	203-582-9561
AEG Corporation Somerville NJ	201-722-9800
Applied Controls Co Inc Fairfield NJ	201-227-5454
A-Systems Inc Charlottesville VA	804-295-7200
Autocore Industries Inc St Paul MN	612-642-1784
Autronics Corp Arcadia CA	818-445-5470
Avtron Mfg Inc Cleveland OH	216-641-8310
Axonix Corp Burlington MA	617-273-5550
Basler Electric Co Highland IL	618-654-2341
Berkeley Process Control Inc Richmond CA	415-526-3333
Bodine Electric Co Chicago IL	312-478-3515
Boston Gear Quincy MA	617-328-3300
Bruce Electric Equipment Corp	
Lindenhurst NY	516-226-2424
Century Electric Inc St Louis MO	314-342-2500
Control Technology Co Inc	
Long Island City NY	718-361-2133
Copley Controls Corp Newtown MA	617-965-2410

Curry Engineering Co N Hollywood CA	213-877-1786
Datatron Labs Inc Sussex NJ	914-856-4313
DNI Industries Inc Torrance CA	312-328-0750
Dreiskler Electric Motors Inc Glen Ellyn IL	312-469-7510
Eastern Delta Corp Nutley NJ	201-667-8721
Eaton Corp/Cutler-Hammer Products Milwaukee WI	414-449-6000
Electric Tachometer Corp Philadelphia PA	215-726-7723
Electro-Craft Corp Hopkins MN	612-931-2700
Electrospace Systems Inc Richardson TX	214-783-2004
Emerson Electric Co Industrial Controls Div Santa Ana CA	714-545-5581
Fenner Industrial Controls Inc Minneapolis MN	612-553-1596
Fincor Incom Intl Inc York PA	717-757-4641
Firing Circuits Inc Norwalk CT	203-846-1633
Flight Systems Mechanicsburg PA	717-697-0333
Furnas Electric Co Batavia IL	312-879-6000
Glentek Inc El Segundo CA	213-322-3026
Heller Corp G K Floral Park NY	800-323-6674
Holmes Co Carl E Los Angeles CA	213-256-2255
Inland Motor Specialty Prods Div-Kollmorgen Corp Radford VA	703-639-9045
Klockner-Moeller Natick MA	617-855-1910
Louis Allis Div MagneTek Inc Milwaukee WI	414-481-6000
Lutron Electronics Co Inc Coopersburg PA	215-282-3800
MEKontrol Inc Northboro MA	617-393-2451
Micro Mo Electronics Inc St Petersburg FL	813-822-2529
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Omron Electronics Inc Schaumburg IL	312-843-7900
Ormec Systems Corp Rochester NY	716-385-3520
Payne Engineering Co Scott Depot WV	304-757-7353
Peco Controls Corp Milpitas CA	408-262-4050
PMI Motion Technologies Commack NY	516-864-1000
Power Control Corp Pittsburgh PA	412-782-3120
Power Functions Engineering Inc Garland TX	214-278-0996
Power-UPS Corp Bohemia NY	516-589-3602
Quantum Corp Trenton NJ	609-883-9191
Rae Corp McHenry IL	815-385-3500
Ramsey Controls Inc Mahwah NJ	201-529-4400
Reliance Electric Co Cleveland OH	800-245-4497
Reuland Electric Co City of Industry CA	213-964-6411
Robicon Corp Pittsburgh PA	412-327-7000
Sequential Information Systems Inc Elmsford NY	914-592-5930
Square D Co Palatine IL	312-397-2600
Superior Electric Co The Bristol CT	203-582-9561
Synetron Corp Portland OR	503-684-3090
Tech Systems Corp Precise Power Div Thomaston CT	203-283-5801
Torq Corp Bedford OH	216-232-1880
Unico Inc Franksville WI	414-886-5678
Ward Leonard Electric Co Mt Vernon NY	914-664-1000
Waugh Controls Corp Chatsworth CA	818-998-8281
Westinghouse Elec Corp Control Div Oldsmar FL	813-855-4621

CONTROLS—PH

OMEGA ENGINEERING INC STAMFORD CT	203-359-1660
ADV PG Gatefold	
Action Instruments Inc San Diego CA	619-279-5726
Alpha-M Corp Euless TX	817-267-7022
Analogic Corp Peabody MA	617-532-5660
Analytical Measurements Inc Chatham NJ	201-273-7500
Azonix Corp Burlington MA	617-273-5550
Bristol Babcock Inc Watertown CT	203-575-3000
Cambridge Scientific Industries Cambridge MD	301-228-5111
Corning Glass Works Science Products Corning NY	607-737-1667
ECO Instruments Div Sea Data Corp Newton MA	617-964-8360
Eitel Mfg Inc Laguna Beach CA	714-494-2012
Extach Instruments & Control Div Waltham MA	617-890-7440
Fischer & Porter Co Westminster PA	215-674-6000
The Foxboro Co Foxboro MA	617-543-8750
Gam Rad West Inc Garden Grove CA	714-554-0773
Kent Process Control Inc Edison NJ	201-225-1717
Leeds & Northrup Instruments North Wales PA	215-643-2000
Luft Instruments Inc Lincoln MA	617-259-9215
Master Electronic Controls Los Angeles CA	213-452-1336
Omega Engineering Inc Stamford CT	203-359-1660
Phoenix Materials Corp Kittanning PA	412-548-1531
RI/Control Systems Div Research Inc Minneapolis MN	612-941-3300
Serfilco Ltd Glenview IL	312-998-9300
Wallace & Tiernan Div Pennwalt Corp Belleville NJ	201-759-8000

CONTROLS, PHOTOELECTRIC—COLOR

ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Banner Engineering Corp Minneapolis MN	612-544-3164
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dolan Jenner Industries Inc Woburn MA	617-935-7444
EGG Reticon Sunnyvale CA	408-738-4266
Electric Switches Inc Los Angeles CA	213-660-1310
Electronics Corp of America Waltham MA	617-466-8000
Engineering Design Denver CO	303-427-1955
FSI/Fork Standards Inc Lombard IL	312-932-9380
Infrared Industries Inc Detector Div Orlando FL	305-282-7700
Integrated Photomatrix Inc Mountaintop NJ	201-233-6010
Lektralab Technologies Inc College Point NY	212-939-7171
Master Electronic Controls Los Angeles CA	213-452-1336
Namco Controls Div Acme-Cleveland Corp Mentor OH	216-946-9900
Peerless Radio Corp Lynbrook NY	516-593-2121

Photodyne Inc Newbury Park CA	818-889-8770
Photomation Inc Mountain View CA	415-967-8992
Process & Instruments Corp Brooklyn NY	718-452-8380
RIL Electronics Inc Warrington PA	215-343-5075
Scientific Technology Inc Mtn View CA	415-965-0910
Simco/Ramic Corp Medford OR	503-776-9800
Skani-A-Matic Corp Elbridge NY	315-689-3961
Spectron Engineering Inc Denver CO	303-623-8987
Warner Electric Brake & Clutch Co South Beloit IL	815-389-3771

CONTROLS,
PHOTOELECTRIC—COUNTING &
SORTING

See Also Counters—Photoelectric

ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
ENVIROMARINE SYSTEMS INC LAUREL MD	301-598-8833
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Affiliated Manufacturers Inc North Branch NJ	201-722-7100
A-Systems Inc Charlottesville VA	804-295-7200
Autotrol Inc Danville IL	217-446-0650
Autronics Corp Arcadia CA	818-445-5470
Banner Engineering Corp Minneapolis MN	612-544-3164
Computer System Assoc Inc San Diego CA	619-566-3911
Control Technology Corp Hopkinton MA	617-435-9595
C-Tek Inc Wakefield MA	617-246-1720
Datatron Labs Inc Sussex NJ	914-856-4313
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dolan Jenner Industries Inc Woburn MA	617-935-7444
Durant Products-Eaton Corp Watertown WI	414-261-4070
EGG Reticon Sunnyvale CA	408-738-4266
Electric Switches Inc Los Angeles CA	213-660-1310
Electronic Counters & Controls Inc Mundelein IL	312-362-8910
Electronics Corp of America Waltham MA	617-466-8000
Engineering Design Denver CO	303-427-1955
Enviromarine Systems Inc Laurel MD	301-598-8833
The Foxboro Co Foxboro MA	617-543-8750
FSI/Fork Standards Inc Lombard IL	312-932-9380
Hyde Park Electronics Inc Dayton OH	513-435-2121
Infrared Industries Inc Detector Div Orlando FL	305-282-7700
Innovation Industries Inc Russellville AR	501-968-2231
Integrated Photomatrix Inc Mountaintop NJ	201-233-6010
Kessler-Elis Products Co Atlantic Highlands NJ	201-291-0500
Luft Instruments Inc Lincoln MA	617-259-9215
Master Electronic Controls Los Angeles CA	213-452-1336
MEKontrol Inc Northboro MA	617-393-2451
MKC Electronics Corp Kansas City KS	913-371-1351
Namco Controls Div Acme-Cleveland Corp Mentor OH	216-946-9900
Omron Electronics Inc Schaumburg IL	312-843-7900
Parko Electronics Co Inc Irvine CA	714-660-8014
Peco Controls Corp Milpitas CA	408-262-4050
Peerless Radio Corp Lynbrook NY	516-593-2121
Photobell Co Inc Fairfield NJ	201-227-3613
Photomation Inc Mountain View CA	415-967-8992
Redington Counters Inc Windsor CT	203-688-0205
Rehlander Assocs Inc Beverly MA	617-222-5961
RIL Electronics Inc Warrington PA	215-343-5075
Sager Hingham MA	617-749-6700
Scanning Devices Inc Waltham MA	617-891-8991
Scientific Technology Inc Mtn View CA	415-965-0910
Sequential Information Systems Inc Elmsford NY	914-592-5930
Sigma Instruments Inc Switching Div Braintree MA	617-843-5000
Simco/Ramic Corp Medford OR	503-776-9800
Skani-A-Matic Corp Elbridge NY	315-689-3961
Spectron Engineering Inc Denver CO	303-623-8987
TRW Optoelectronics Div Carrollton TX	214-323-2200
Veeder-Roth Hartford CT	203-527-7201
Versa Machinery Div Foster & Allen Inc Somerville NJ	201-526-6100
Warner Electric Brake & Clutch Co South Beloit IL	815-389-3771
Welch Allyn Inc Industrial Div Skaneateles Falls NY	315-685-8395
Xerox Inc Portland OR	503-641-9525

CONTROLS,
PHOTOELECTRIC—ILLUMINATION

ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Bayside Controls Clifton NJ	201-778-6611
Bruce Industries Inc Gardena CA	213-321-2677
Chadwick Helmutz Co Inc El Monte CA	213-575-6161
De-Tec-Tronic Corp Elgin IL	312-695-9150
Electric Switches Inc Los Angeles CA	213-660-1310
Engineering Design Denver CO	303-427-1955
FSI/Fork Standards Inc Lombard IL	312-932-9380
Hughes & Phillips Inc Burbank CA	213-849-1104
Integrated Photomatrix Inc Mountaintop NJ	201-233-6010
Kaligo Electronics Co Inc Bethlehem PA	215-837-0700
Lutron Electronics Co Inc Coopersburg PA	215-282-3800
Master Electronic Controls Los Angeles CA	213-452-1336
MEKontrol Inc Northboro MA	617-393-2451
MKC Electronics Corp Kansas City KS	913-371-1351

Peerless Radio Corp Lynbrook NY	516-593-2121
Photomatrix Corp Santa Monica CA	213-828-9556
Pioneer Electric & Research Corp Forest Park IL	312-771-8242
Ripley Co Inc Cromwell CT	203-635-2202
Sager Hingham MA	617-749-6700
Sigma Instruments Inc Fisher Pierce Div Braintree MA	617-843-5000
Simco/Ramic Corp Medford OR	503-776-9800
Tork Inc Mt Vernon NY	914-664-3542
Warner Electric Brake & Clutch Co South Beloit IL	815-389-3771
Welch Allyn Inc Industrial Div Skaneateles Falls NY	315-685-8395

CONTROLS, PHOTOELECTRIC—LOOP
REGULATING

ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
A-Systems Inc Charlottesville VA	804-295-7200
Autotrol Inc Danville IL	217-446-0650
Datatron Labs Inc Sussex NJ	914-856-4313
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dolan Jenner Industries Inc Woburn MA	617-935-7444
Electric Switches Inc Los Angeles CA	213-660-1310
Electronics Corp of America Waltham MA	617-466-8000
Emerson Industrial Controls Santa Ana CA	714-545-5581
Engineering Design Denver CO	303-427-1955
FSI/Fork Standards Inc Lombard IL	312-932-9380
Heller Corp G K Floral Park NY	800-323-6674
Idec Izumi Corp Osaka Japan	81-6-200553
Innovation Industries Inc Russellville AR	501-968-2231
Luft Instruments Inc Lincoln MA	617-259-9215
Master Electronic Controls Los Angeles CA	213-452-1336
MEKontrol Inc Northboro MA	617-393-2451
OAI Santa Clara CA	408-988-6900
Peco Controls Corp Milpitas CA	408-262-4050
Peerless Radio Corp Lynbrook NY	516-593-2121
Photobell Co Inc Fairfield NJ	201-227-3613
Photomation Inc Mountain View CA	415-967-8992
Photomatrix Corp Santa Monica CA	213-828-9556
Scanning Devices Inc Waltham MA	617-891-8991
Warner Electric Brake & Clutch Co South Beloit IL	815-389-3771

CONTROLS, PHOTOELECTRIC—
REGISTRATION & SKEW

ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Autotrol Inc Danville IL	217-446-0650
Banner Engineering Corp Minneapolis MN	612-544-3164
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dolan Jenner Industries Inc Woburn MA	617-935-7444
Electric Switches Inc Los Angeles CA	213-660-1310
Electronics Corp of America Waltham MA	617-466-8000
Engineering Design Denver CO	303-427-1955
FSI/Fork Standards Inc Lombard IL	312-932-9380
GPE Controls A Brunswick Co Morton Grove IL	312-986-4000
HEI Inc Victoria MN	612-443-2500
Hurlertron Inc Danville IL	217-446-6500
MEKontrol Inc Northboro MA	617-393-2451
Namco Controls Div Acme-Cleveland Corp Mentor OH	216-946-9900
Omron Electronics Inc Schaumburg IL	312-843-7900
Peco Controls Corp Milpitas CA	408-262-4050
Peerless Radio Corp Lynbrook NY	516-593-2121
Photobell Co Inc Fairfield NJ	201-227-3613
Photomation Inc Mountain View CA	415-967-8992
Scanning Devices Inc Waltham MA	617-891-8991
Scientific Technology Inc Mtn View CA	415-965-0910
Skani-A-Matic Corp Elbridge NY	315-689-3961
Spectron Engineering Inc Denver CO	303-623-8987
Warner Electric Brake & Clutch Co South Beloit IL	815-389-3771
Welch Allyn Inc Industrial Div Skaneateles Falls NY	315-685-8395

CONTROLS—POSITIONING (EXCEPT
SYNCHROS & SERVOSYSTEMS)

BEI MOTION SYSTEMS CO CARLSBAD CA	619-931-1500
ADV PGS 176, 177	
BEI MOTION SYS CO DIGITAL PRODUCTS DIV LITTLE ROCK AR	501-851-4000
ADV PGS 176, 177	
COMPUTER CONVERSIONS CORP EAST NORTHPORT NY	516-261-3330
CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY	718-361-2131
ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
MAXWELL ELECTRONICS RESEARCH TRIANGLE PARK NC	919-846-1633
MEASUREMENT SYSTEMS INC NORWALK CT	203-838-5556
SCHAEVITZ ENGINEERING PENNSAUKEN NJ	609-662-8000
SIGMA INSTRUMENTS INC MOTION CONTROL DIV BRAINTREE MA	617-843-5000
SUPERIOR ELECTRIC CO THE BRISTOL CT	203-582-9556

FARRAND INDUCTOSYN®

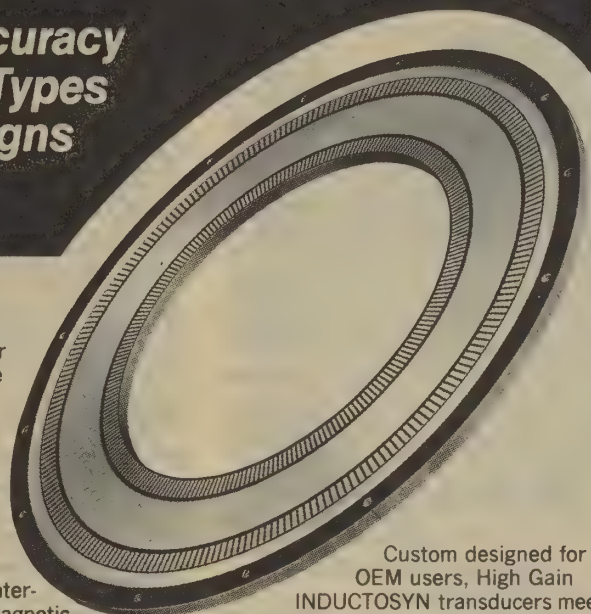
Rotary and Linear Position Transducers

- **Extreme Reliability and Accuracy**
- **Absolute and Incremental Types**
- **Standard and Custom Designs**
- **Competitive Cost**

FARRAND INDUCTOSYN® position transducers are extremely rugged and accurate scale elements used for measurement of angular or linear displacement. Inductively or capacitively coupled, their electrical output signals drive readout displays, generate computer input data, or provide servo feedback signals. Proven applications include weapons systems, machine tools, radar and navigational instruments, computer disk drives, and the Space Shuttle.

Noncontacting INDUCTOSYN elements provide zero wear, never need lubrication. Can be designed to withstand dust, oil films, sea water, hard vacuum, light, extreme pressure, temperature from 10°K to 150°C, and other hostile environments. Have operated at full accuracy for extended intervals in space, in strong magnetic fields, immersed in sea water at 600 feet, and immersed in liquid nitrogen.

Standard single and multispeed rotary scales have diameters from 3 to 12 inches, with 360, 512, 720, 1000, and 1024 poles (others available). Standard 10 inch bar scales can be assembled end to end for any length. Continuous tape scales available up to 100 feet long.



Custom designed for OEM users, High Gain INDUCTOSYN transducers meet specified requirements for size, pitch, accuracy, substrate material, and environment. Auxiliary control signals, such as End of Travel or Track Location, can be included. Substrate can be any material from cast aluminum to fiberglass tape, including lamination directly on user parts. Thermal time constant can be adjusted to match user structure, eliminating inaccuracies during warmup.

ACHIEVABLE ACCURACY FOR SELECTED MODELS

Rotary Types	3" dia. 360 pole	± 2 arc sec
	4" dia. 512 pole	± 1.5 arc sec
	7" dia. 720 pole	± 1 arc sec
	12" dia. 720 pole	± 0.5 arc sec
	12" dia. 1024 pole	± 0.8 arc sec
Linear Types	10" bar scale	± 0.00040" (± 0.001 mm)
	Tape, to 100 feet or more	0.000100"/foot T.I.R.
	Adjustable Linear INDUCTOSYN Scale, length to 115" of travel	Length errors can be reduced to virtually zero over full length, determined by accuracy of standard and resolution of readout or numerical control system.

Individually calibrated standard INDUCTOSYN rotary transducers provide higher accuracy, yet cost less than comparable resolvers. Custom designed High Gain INDUCTOSYN transducers can be delivered at less than \$20 each in high volume production quantities.

TOLL FREE:
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(In NY) 800-431-3355
Or send now for technical bulletins.



FARRAND CONTROLS

Division of Farrand Industries, Inc.

99 Wall Street, Valhalla, NY 10595

TOLL FREE: (800) 227-1423 In NY (800) 431-3355

Telex: 646640

INDUCTOSYN® is a registered trademark of Farrand Industries, Inc.

Action Instruments Inc San Diego CA	619-279-5726
Advanced Control Systems Corp	
Randolph MA	617-963-4543
American Hydromath Co Pawlet VT	802-325-3003
Anilam Electronics Corp Miami FL	305-592-2727
Astrosystems Inc Lake Success NY	516-328-1600
A-Systems Inc Charlottesville VA	804-295-7200
Automatic Switch Co Florham Park NJ	201-966-2000
Automation Systems Inc Eldridge IA	319-285-8171
Automation Unitd Inc Woburn MA	617-933-7288
Autonumerics Inc Hauppauge NY	516-234-4343
Autotron Inc Danville IL	217-446-0650
Autronics Corp Arcadia CA	818-445-5470
Bailey Controls Co Wickliffe OH	216-585-8500
B & B Motor & Control Corp Burlington CT	718-784-1313
BEI Motion Systems Co Carlsbad CA	619-931-1500
BEI Motion Sys Co Digital Products Div	
Little Rock AR	501-851-4000
Bellofram Corp A Rexnord Co Burlington MA	617-272-2100
Benton Corp Warrendale PA	412-776-5577
Berger Lahr Corp Jaffrey NH	603-532-7701
Bolt Industrial Controls Inc Simi Valley CA	818-716-5169
Buckminster Corp Cambridge MA	617-864-2456
California Data Corp Newbury Park CA	805-498-3651
C & A Products Inc New Milford CT	203-355-3164
Compumotor Corp Petaluma CA	707-778-1244
Computer Conversions Corp	
East Northport NY	516-261-3300
Computer Optical Products Inc	
Chatsworth CA	818-882-0424
Control Sciences Inc Chatsworth CA	818-709-5510
Control Technology Co Inc	
Long Island City NY	718-361-2133
Control Technology Corp Hopkinton MA	617-435-9595
Copley Controls Corp Newtown MA	617-965-2410
C-Tek Inc Wakefield MA	617-246-1720
Cybernetic Micro Systems Inc	
San Gregorio CA	415-726-3000
CyberPak Co Brookfield IL	312-387-0802
Data Technology Inc Woburn MA	617-935-8820
Datafarr Labs Inc Sussex NJ	914-856-4313
De-Tec-Tronic Corp Elgin IL	312-695-9150
Eagle Signal Controls Div Wickes Mfg Co	
Austin TX	512-837-8300
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Eldec Corp Lynnwood WA	206-743-1313
Electric Switches Inc Los Angeles CA	213-660-1310
Electro-Craft Corp Hopkins MN	612-931-2700
Electromatic Controls Corp	
Hoffman Estates IL	312-882-5757
Electronic Counters & Controls Inc	
Mundelein IL	312-362-8910
Electrospac Systems Inc Richardson TX	214-783-2004
Eltec Instruments Inc Daytona Beach FL	904-253-5328
Emerson Industrial Controls Santa Ana CA	714-545-5581
Engineered Technical Products Inc	
Somerville NJ	201-725-0330
ETI Systems Oceanide CA	619-757-7770
Fenner Industrial Controls Inc Minneapolis MN	612-553-1596
Fincor Inc Int'l Inc York PA	717-757-4641
The Foxboro Co Foxboro MA	617-543-8750
Gap Instrument Corp Smithtown NY	516-273-0909
General Defense Corp Systems Div	
Pinellas Park FL	813-541-6681
Honeywell Inc IPC Div York PA	717-848-1151
Honeywell Process Control Div	
Ft Washington PA	215-641-3000
Hyde Park Electronics Inc Dayton OH	513-435-2121
Icon Corp Cambridge MA	617-868-5400
Indikon Corp Cambridge MA	617-547-3604
Industrial Control Co Rockledge FL	305-259-7105
Innovation Industries Inc Russellville AR	501-968-2232
Instrumentation & Control Systems Inc	
Addison IL	312-543-8200
Intelligent Controls Inc Saco ME	207-283-0156
Kaybar Corp Little Ferry NJ	201-440-3848
Kistler-Morse Corp Redmond WA	206-881-8000
Klinger Scientific Corp Richmond Hill NY	718-846-3700
Lehr Siegler Inc Santa Monica CA	213-452-5444
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Love Controls Corp Wheeling IL	312-541-3232
Luft Instruments Inc Lincoln MA	617-259-9215
Maxwell Electronics	
Research Triangle Park NC	919-846-1633
Measurement Systems Inc Norwalk CT	203-838-5561
Mechanization Assocs Mt View CA	415-967-4262
Mesur-Matic Electronics Corp Salem MA	617-745-7000
Micro Mo Electronics Inc St Petersburg FL	813-822-2529
Moore Products Co Spring House PA	215-646-7400
National Sonics Div Vortex Corp	
Hauppauge NY	516-273-6600
NES Inc Carpentersville IL	312-426-5900
North Coast Automation Programmable Motion Control	
Cleveland OH	216-473-3800
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Omron Electronics Inc Schaumburg IL	312-843-7900
Orbit Instrument Corp Hauppauge NY	516-435-8300
Ormeo Systems Corp Rochester NY	716-385-3520
Peco Controls Corp Milpitas CA	408-262-4050
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Powr-UPS Corp Bohemia NY	516-589-3602
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Sequential Information Systems Inc	
Elmsford NY	914-592-5930
Sigma Instruments Inc Motion Control Div	
Braintree MA	617-843-5000
Siltran Digital Atascadero CA	805-466-3209
Skand-A-Matic Corp Elbridge NY	315-689-3961
Solid Controls Inc Minneapolis MN	612-941-6110
Southwest Products Co Monrovia CA	818-358-0181
Strippit Akron NY	716-542-4511
Superior Electric Co The Bristol CT	203-582-9561
Technar Inc Arcadia CA	818-447-1187
Technology 80 Inc Minneapolis MN	612-542-9545

Teleterminal Corp Greenland NH	603-431-1200
Temposonics Div MTS Sys Corp Plainview NY	516-349-1950
Transducer Systems Inc Kulpville PA	215-256-4811
Unico Inc Franksville WI	414-886-5678
Veeder-Roth Hartford CT	203-527-7201
Vernitich Div Vernitron Corp Deer Park NY	516-586-5100
Waters Mfg Inc Wayland MA	617-358-2777
Xcel Controls Inc Mishawaka IN	219-259-7804

CONTROLS—PRESSURE

ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ENTRAN DEVICES INC FAIRFIELD NJ	201-227-1002
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SCHAEVITZ ENGINEERING	
PENNSAUKEN NJ	609-662-8000
Acrotech Brea CA	714-529-4666
Action Instruments Inc San Diego CA	619-279-5726
Advanced Peripherals Inc Cleveland OH	216-721-6665
Allen-Bradley Co Milwaukee WI	414-382-2000
American Hydromath Co Pawlet VT	802-325-3003
Analogic Corp Peabody MA	617-532-5660
ARO Corp Bryan OH	419-636-4242
Autocou Industries Inc St Paul MN	612-642-1784
Automatic Test Systems Malden MA	617-322-1107
Azonix Corp Burlington MA	617-273-5550
Bailey Controls Co Wickliffe OH	216-585-8500
Bay Labs Div Tegam Inc Madison OH	216-428-7505
Bellofram Corp A Rexnord Co Burlington MA	617-272-2100
Benton Corp Warrendale PA	412-776-5577
Bindicator Port Huron MI	313-987-2700
Bristol Babcock Inc Waterbury CT	203-575-3000
Chromalox Instruments & Control	
Laverne TN	615-793-3900
Columbia Research Labs Inc Woodlyn PA	215-872-3900
Columbus Electric Mfg Co Piney Flats TN	615-538-8191
Computer Instruments Corp I & C Div	
Hempstead NY	516-483-8200
Control Technology Co Inc	
Long Island City NY	718-361-2133
Data Instruments Inc Lexington MA	617-861-7450
Datafarr Labs Inc Sussex NJ	914-856-4313
Deca Mfg Co Inc Lexington OH	419-884-0071
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dietz Co Inc Henry G Long Island City NY	718-726-3347
Doric Scientific Div Emerson Elec Co	
San Diego CA	619-565-4415
Dynisco Norwood MA	617-699-6600
Elnik Instruments Inc Fairfield NJ	201-882-8033
Enercorp Instruments Ltd Islington ON	416-231-5335
Entran Devices Inc Fairfield NJ	201-227-1002
Eurotherm Corp Reston VA	703-471-4870
Fischer & Porter Co Westminster PA	215-674-6000
The Foxboro Co Foxboro MA	617-543-8750
Furnas Electric Co Batavia IL	312-879-6000
GaSonics Div Atomel Corp Sunnyvale CA	408-745-1340
Gilmont Instruments Inc Great Neck NY	516-487-0120
GPE Controls A Brunswick Co	
Morton Grove IL	312-966-4000
Granville-Phillips Co Boulder CO	303-443-7660
Harrel Inc East Norwalk CT	203-866-2573
Himmelstein & Co S Hoffman Estates IL	312-843-3300
Honeywell Process Control Div	
Ft Washington PA	215-641-3000
Industrial Micro-Systems Inc Southington CT	203-628-4844
Invalco Msmnt & Control Combustion Engrg Inc	
Tulsa OK	918-834-5671
ITT Barton Instruments Co	
City of Industry CA	818-961-2547
Jewell Electrical Instruments Inc	
Manchester NH	603-669-6400
Kalgio Electronics Co Inc Bethlehem PA	215-837-0700
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Love Controls Corp Wheeling IL	312-541-3232
Luft Instruments Inc Lincoln MA	617-259-9215
Martin-Decker Cedar Park TX	512-331-0411
Matheson Secaucus NJ	201-867-4100
Mensor Corp San Marcos TX	512-396-4200
MKS Instruments Inc Burlington MA	617-272-9255
Moore Products Co Spring House PA	215-646-7400
NES Inc Carpentersville IL	312-426-5900
Norgren Co C A Littleton CO	303-794-2611
Omega Engineering Inc Stamford CT	203-359-1660
Pace Transducer Co Div Cj Instr Inc	
Tarzana CA	818-996-4131
Parker Pneumatics E Pepperell MA	617-433-2721
Peerless Radio Corp Lynbrook NY	516-593-2121
Pres-Air-Trol Corp Mamaroneck NY	914-698-2026
Pressure Controls Inc Belleville NJ	201-751-5003
RI/Control Systems Div Research Inc	
Minneapolis MN	612-941-3300
Robitich Inc Wilmington MA	617-657-6143
Schaevitz Engineering Pennsauken NJ	609-662-8000
Singer Co Controls Div Schiller Pk IL	312-678-4150
Skinner Valve Div Honeywell Inc	
New Britain CT	203-827-2310
Solid Controls Inc Minneapolis MN	612-941-6110
Sparton Technology Inc Rio Rancho NM	505-892-5300
Square D Co Palatine IL	312-397-2600
Sulmar Systems Engineering Belmont MA	617-862-6358
Synthatron Corp Parsippany NJ	201-335-5000
Therm-O-Disc Inc Mansfield OH	419-756-5911
United Electric Controls Co Watertown MA	617-926-1000
Vernitich Div Vernitron Corp Deer Park NY	516-586-5100
Viatar Corp Grand Island NY	716-773-1700
Watlow Electric Winona MN	507-454-5300
West Coast Research Corp Los Angeles CA	213-478-8833

CONTROLS—PROPORTIONING

BLUE M UNIT OF GENERAL SIGNAL	
BLUE ISLAND IL	312-385-9000
ADV PG 84	
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
RESEARCH INSTRUMENT CO INC	
SOUTH WINDSOR CT	203-528-9600
A C D Corp Dayton OH	513-222-2000
Action Instruments Inc San Diego CA	619-279-5726
Advanced Peripherals Inc Cleveland OH	216-721-6665
Alnor Instrument Co Skokie IL	312-647-7000
Analogic Corp Peabody MA	617-532-5660
Anasco Corp Wakefield MA	617-246-3300
Applied Controls Co Inc Fairfield NJ	201-227-5400
A-Systems Inc Charlottesville VA	804-295-7200
Automatic Control Electronics Co	
San Antonio TX	512-661-4100
Automation Products Inc Houston TX	713-869-0000
Avtron Mfg Inc Cleveland OH	216-641-8300
Azonix Corp Burlington MA	617-273-5550
BLH Electronics Canton MA	617-821-2000
Blue M Unit of General Signal Blue Island IL	312-385-9000
Chromalox Instruments & Control	
Laverne TN	615-793-3900
Computer Optical Products Inc	
Chatsworth CA	818-882-0424
Control Technology Co Inc	
Long Island City NY	718-361-2133
Copley Controls Corp Newtown MA	617-965-2410
Cox & Company Inc New York NY	212-674-4700
De-Tec-Tronic Corp Elgin IL	312-695-9150
Digital Blending Systems Inc	
East Providence RI	401-434-3400
Dolan Jenner Industries Inc Woburn MA	617-935-7400
Douglas Randall Div Pawcatuck CT	203-599-2000
Durant Products-Eaton Corp Watertown WI	414-261-4000
Electronic Development Labs Inc	
Hauppauge NY	516-435-2600
Eurotherm Corp Reston VA	703-471-4870
Extech Instruments & Cont Div Waltham MA	617-890-7400
The Foxboro Co Foxboro MA	617-543-8750
GPE Controls A Brunswick Co	
Morton Grove IL	312-966-4000
Honeywell Process Control Div	
Ft Washington PA	215-641-3000
Industrial Control Co Rockledge FL	305-259-7105
Jersey Technical Electronics Inc Middlesex NJ	201-469-8000
Jewell Electrical Instruments Inc	
Manchester NH	603-669-6400
Kalgio Electronics Co Inc Bethlehem PA	215-837-0700
Kistler-Morse Corp Redmond WA	206-881-8000
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
LFE Corp Instruments Div Clinton MA	617-835-1000
Love Controls Corp Wheeling IL	312-541-3232
Martin-Decker Cedar Park TX	512-331-0411
Matheson Secaucus NJ	201-867-4100
MKC Electronics Corp Kansas City KS	913-371-1100
Moore Products Co Spring House PA	215-646-7400
Omega Engineering Inc Stamford CT	203-359-1660
Payne Engineering Co Scott Depot WV	304-757-7000
Research Instrument Co Inc	
South Windsor CT	203-528-9600
RI/Control Systems Div Research Inc	
Minneapolis MN	612-941-3300
Robicon Corp Pittsburgh PA	412-327-7700
SAS Systems Inc Norcross GA	404-448-4400
Scanning Devices Inc Waltham MA	617-891-8991
Scientific Technology Inc Mtn View CA	415-965-0910
Sunne Controls Div Peco Inc Portland OR	503-233-6600
Syracuse Electronics Syracuse NY	315-488-4400
Syscon International Inc South Bend IN	219-232-3300
Temtel Corp Fullerton CA	714-879-2700
Thermo Electric Co Inc Saddle Brook NJ	201-843-5100
Twin Rivers Engineering Inc E Boothbay ME	207-633-2700
Wallace & Tiernan Div Pennwalt Corp	
Belleville NJ	201-759-8000
Watlow Electric Winona MN	507-454-5300
Waugh Controls Corp Chatsworth CA	818-998-8800

CONTROLS—PROXIMITY

ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
CLARE DIV GENERAL INSTRUMENT CORP	
CHICAGO IL	312-262-7100
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SCHAEVITZ ENGINEERING	
PENNSAUKEN NJ	609-662-8000
Allen-Bradley Co Milwaukee WI	414-382-2000
Amerace Corp Hackettstown NJ	201-852-1000
Automatic Switch Co Florham Park NJ	201-966-2000
Automatic Timing & Controls Co	
King of Prussia PA	800-441-8100
Automation Devices Inc Fairview PA	814-474-5100
Autotron Inc Danville IL	217-446-0650
Banner Engineering Corp Minneapolis MN	612-544-3300
Bindicator Port Huron MI	313-987-2700
Clare Div General Instrument Corp Chicago IL	312-262-7100
Control Technology Corp Hopkinton MA	617-435-9595
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dolan Jenner Industries Inc Woburn MA	617-935-7400
Douglas Randall Div Pawcatuck CT	203-599-2000
Drexelbrook Engineering Co Horsham PA	215-674-1100
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Eldec Corp Lynnwood WA	206-743-1310
Electric Switches Inc Los Angeles CA	213-660-1310
Electro Corp Sarasota FL	813-355-8800

Automatic Controls Corp	
Hoffman Estates IL	312-882-5757
Itec Instruments Inc Daytona Beach FL	904-253-5328
ndress & Hauser Inc Greenwood IN	717-535-7138
ngineering Design Denver CO	303-427-1955
ght Systems Mechanicsburg PA	717-697-0333
SI/Fork Standards Inc Lombard IL	312-932-9380
ork Products Inc Brookfield CT	203-775-4501
amamatsu Corp Middlesex NJ	201-469-6640
lamin Inc Lake Mills WI	414-648-2361
elm Instrument Co Inc Maumee OH	419-893-4356
loneywell Inc IPC Div York PA	717-848-1151
lyde Park Electronics Inc Dayton OH	513-435-2121
tec Izumi Corp Osaka Japan	81-6-2005530
rdikon Corp Cambridge MA	617-547-3604
ustrial Micro-Systems Inc Southington CT	203-628-4844
novation Industries Inc Russellville AR	501-968-2232
ntegrated Photomatrix Inc Mountainside NJ	201-233-6010
essler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
aster Electronic Controls Los Angeles CA	213-452-1336
IEKontrol Inc Northboro MA	617-393-2451
icro Switch A Honeywell Div Freeport IL	815-235-6600
lamco Controls Div Acme-Cleveland Corp	
Mentor OH	216-946-9900
lorgen Co C A Littleton CO	303-794-2611
lron Electronics Inc Schaumburg IL	312-843-7900
arko Electronics Co Inc Irvine CA	714-660-8014
eco Controls Corp Milpitas CA	408-262-4050
hotobell Co Inc Fairfield NJ	201-227-3613
ager Hingham MA	617-749-6700
chaevit Engineering Pennsauken NJ	609-682-8000
cientific Technology Inc Mtn View CA	415-965-0910
ensor Corp Scottsdale PA	412-887-4080
kan-A-Matic Corp Elbridge NY	315-689-3961
quare D Co Palatine IL	312-397-2600
chology 80 Inc Minneapolis MN	612-542-9545
ransducer Systems Inc Kulpville PA	215-256-4611
nited Detector Technology Hawthorne CA	313-978-0516
eedler-Rort Hartford CT	203-527-7201
ercon Inc Portland OR	503-641-9525

CONTROLS, REMOTE—RADIO

dvance Industries Div Overhead Door Corp	
Appleton WI	414-739-6121
risto-Craft New York NY	212-924-4041
-Systems Inc Charlottesville VA	804-295-7200
arrett Electronics Corp Northbrook IL	312-272-2300
mpu-Mech Inc Toledo OH	419-535-6702
ontrol Technology Div AirBorn Elect Corp	
Garland TX	214-272-5544
rouse-Hinds Co Syracuse NY	315-477-7000
ital Electronics Inc Alexandria VA	703-354-3350
igital Dynamics Inc Scotts Valley CA	408-438-6823
ilaney Electronics Ltd Vancouver BC	604-293-1611
oid AMI Semiconductors Santa Clara CA	408-246-0330
arris Corp RF Commun Grp Rochester NY	716-244-5830
anson Co E F/Radio Products Div	
Waseca MN	507-835-6222
andis & Gyr Systems San Jose CA	408-297-9920
ase Corp Santa Clara CA	408-988-6600
obli Electronics Inc Anderson IN	317-642-7976
loseley Associates Inc Goleta CA	805-968-9621
ountain West Alarm Supply Co Phoenix AZ	602-263-8831
klahoma Aerotronics Inc Hartshorne OK	918-297-2566
reh Electronics Industries Inc Niles IL	312-647-8338
ugid Computer Sacramento CA	916-344-5064
ugidatran Sys Corp Electronic Div	
Cucamonga CA	714-987-4673
erry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
quare D Co Palatine IL	312-397-2600
ejas Controls Inc Houston TX	713-956-4800
ega Precision Labs Vienna VA	703-938-6300

CONTROLS, REMOTE—WIRELINE

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
MEASUREMENT SYSTEMS INC	
NORWALK CT	203-838-5561
C D Corp Dayton OH	513-222-2600
merican Science & Engineering Inc	
Cambridge MA	617-868-1600
strosystems Inc Lake Success NY	516-328-1600
-Systems Inc Charlottesville VA	804-295-7200
Automatic Control Electronics Co	
San Antonio TX	512-661-4111
Automatic Switch Co Florham Park NJ	201-966-2000
mpu-Mech Inc Toledo OH	419-535-6702
Control Technology Co Inc	
Long Island City NY	718-361-2133
rydom Div Intl Rectifier Corp El Segundo CA	213-322-4987
ontrol Systems A CompuDyne Co	
Rockville MD	301-279-8798
ta-Tel Research Co Inc Montrose CO	303-249-6129
atum Inc Timing/AACOM Divs Anaheim CA	714-533-6333
Delta Electronics Inc Alexandria VA	703-354-3350
Dowty RFL Industries Inc Commun	
Boonton NJ	201-334-3100
utronics Inc Sunnyvale CA	408-735-1122
rap Instrument Corp Smithtown NY	516-273-0909
ould AMI Semiconductors Santa Clara CA	408-246-0330
rim Corp Medford NJ	609-267-7950
loneywell Inc IPC Div York PA	717-848-1151
ntelligent Controls Inc Saco ME	207-883-0156
Marlin-Decker Cedar Park TX	512-331-0411
Measurement Systems Inc Norwalk CT	203-838-5561
MC Electronics Corp Kansas City KS	913-371-1351
oseley Associates Inc Goleta CA	805-968-9621
orthon Precision Labs Inc Fairfield NJ	201-227-4800
ribit Instrument Corp Hauppauge NY	516-435-8300
res-Air-Trol Corp Mamaroneck NY	914-698-2026
rotech Audio Corp St James NY	516-584-5855
rellance Electric Co Cleveland OH	800-245-4497

Rigid Computer Sacramento CA	916-344-5064
Safetran Sys Corp Electronic Div	
Cucamonga CA	714-987-4673
Serial Lab Products Inc Marlboro MA	617-481-1684
Southwest Products Co Monrovia CA	818-358-0181
Square D Co Palatine IL	312-397-2600
Technology 80 Inc Minneapolis MN	612-542-9545
Torpey Controls & Engineering Ltd	
Scarborough ON	416-298-7788

CONTROLS—SERVO & SYNCHRO

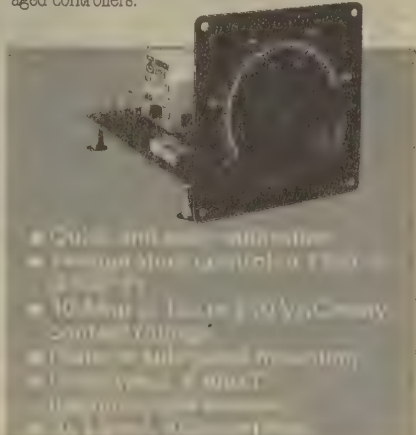
See Servos; Synchros

CONTROLS—TEMPERATURE (EXCEPT THERMOSTATS)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
BLUE M UNIT OF GENERAL SIGNAL	
BLUE ISLAND IL	312-385-9000
ADV PG 84	
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
QUANTEM CORP TRENTON NJ	609-883-9191
ADV PG 137	
RESEARCH INSTRUMENT CO INC	
SOUTH WINDSOR CT	203-528-9625
SUN ELECTRONIC SYSTEMS INC	
FT LAUDERDALE FL	305-587-5577
ADV PG 86	
SUPERIOR ELECTRIC CO THE	
BRISTOL CT	203-582-9561
THERMOMETRICS INC EDISON NJ	201-287-2870
Accurate Electronics Corp Elyria OH	216-365-1211
Acromag Inc Wixom MI	313-624-1541
Action Instruments Inc San Diego CA	619-279-5726
Advanced Peripherals Inc Cleveland OH	216-721-6665
AEG Corporation Somerville NJ	201-722-9800
AEMC Corp Boston MA	617-451-0227
Airflow Co Frederick MD	301-831-3100
Allen-Bradley Co Milwaukee WI	414-382-2000
Alnor Instrument Co Skokie IL	312-647-7866
Alpha-M Corp Eufaula TX	817-267-7022
Analogic Corp Wakefield MA	617-532-5660
Anasco Corp Wakefield MA	617-246-3000
Andonian Cryogenics Inc Newtonville MA	617-969-8010
ARI Industries Inc Addison IL	312-953-9100
A-Systems Inc Charlottesville VA	804-295-7200
Automatic Test Systems Malden MA	617-322-1007
Autronics Corp Arcadia CA	818-445-5470
Azonix Corp Burlington MA	617-273-5550
Bailey Controls Co Wickliffe OH	216-585-8500
Barnes Engineering Co Stamford CT	203-348-5381
Bay Labs Div Tegam Inc Madison OH	216-428-7505
Bayley Instrument Co Kenwood CA	707-833-6014
Blue M Unit of General Signal Blue Island IL	312-385-9000
Brew & Co Inc Richard D Concord NH	603-225-6605
Bristol Babcock Inc Waterbury CT	203-575-3000
Burling Instrument Co Inc Chatham NJ	201-635-9481
Butler Mfg Co Controls Div Redmond WA	206-823-7100
Caldwell Systems Corp San Ramon CA	415-833-1850
Chromalox Instruments & Control	
Laverne TN	615-793-3900
Clean Room Products Inc Ronkonkoma NY	516-588-7000
Columbus Electric Mfg Co Piney Flats TN	615-538-8191
Control Technology Co Inc	
Long Island City NY	718-361-2133
Control Technology Corp Hopkinton MA	617-435-9595
Cox & Company Inc New York NY	212-674-4727
C-Temp Inc Anaheim CA	714-630-8451
Cybernetic Micro Systems Inc	
San Gregorio CA	415-726-3000
Datatrain Labs Inc Sussex NJ	914-856-4313
Delta Products Inc Grand Junction CO	303-242-9000
Digital Dynamics Inc Scotts Valley CA	408-438-6823
Dixon Inc Grand Junction CO	303-242-8863
Doric Scientific Div Emerson Elec Co	
San Diego CA	619-565-4415
Dowty Electronics Co Brandon VT	802-247-6811
Dowty Electronics Co Thermocontrol Div	
Brandon VT	802-247-6811
Dynamic Controls Corp South Windsor CT	203-528-9971
Dynisco Norwood MA	617-769-6600
Eagle Signal Controls Div Wickes Mfg Co	
Austin TX	512-837-8300
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
E I L Instruments Inc Sparks MD	301-771-4800
Electric Switches Inc Los Angeles CA	213-660-1310
Electromatic Controls Corp	
Hoffman Estates IL	312-882-5757
Electronic Development Labs Inc	
Hauppauge NY	516-435-2808
Elcex Associates Morris Plains NJ	201-299-1615
Elma Engineering Palo Alto CA	415-494-7303
Elmwood Sensors Inc Pawtucket RI	401-727-1300
Enik Instruments Inc Fairfield NJ	201-882-8033
En-Cer Inc South Holland IL	312-339-6310
Enercorp Instruments Ltd Islington ON	416-231-5335
Eurotherm Corp Reston VA	703-471-4870
Extex Instruments & Cont Div Waltham MA	617-890-7440
Fenwal Inc Ashland MA	617-881-2000
Fischer & Porter Co Warminster PA	215-674-6000
The Foxboro Co Foxboro MA	617-543-8750
Gordon Co Claud S Richmond IL	815-678-2211
Guideline Instruments Inc Orlando FL	305-423-8215
Hades Mfg Corp Farmingdale NY	516-249-4244

SPACE SAVING TEMPERATURE CONTROL

Ideally suited for cooking, furnace, kiln and high limit applications. The SERIES 57 controller offers the design engineer a rugged long life alternative to the bulb and capillary or more expensive DIN packaged controllers.



QUANTEM
CORPORATION

P.O. Box 7599, Trenton, NJ 08628
(609) 883-9191

Harrel Inc East Norwalk CT	203-866-2573
Heraeus-Volkert Inc Queens Village NY	718-464-8400
Honeycomb Systems Inc Biddeford ME	207-282-1521
Honeywell Process Control Div	
FI Washington PA	215-641-3000
Hupbert Co K H South Holland IL	312-339-2020
Hy-Cal Engineering El Monte CA	818-444-4000
Idec Izumi Corp Osaka Japan	81-6-2005530
Industrial Computer Designs Inc	
Westlake Village CA	818-889-3179
Industrial Micro-Systems Inc Southington CT	203-628-4844
International Instruments Div Gen Resistance Inc	
North Branford CT	203-481-3450
Invalco Msmf & Control Combustion Engrg Inc	
Tulsa OK	918-834-5671
ITT Barton Instruments Co	
City of Industry CA	818-961-2547
Jersey Technical Electronics Inc Middlesex NJ	201-469-8160
Jewell Electrical Instruments Inc	
Manchester NH	603-669-6400
Kalgio Electronics Co Inc Bethlehem PA	215-837-0700
Kaye Instruments Inc Bedford MA	617-275-0300
Keith Co Inc Pico Rivera CA	213-685-3484
Kent Process Control Inc Edison NJ	201-225-1717
Kysor/Cadillac Cadillac MI	616-775-4681
Larson Instrument Co Inc Orangeburg NY	914-359-3800
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
LFE Corp Instruments Div Clinton MA	417-835-1000
Love Controls Corp Wheeling IL	312-541-3232
Luft Instruments Inc Lincoln MA	617-259-9215
Mag-Con Inc St Paul MN	612-633-8820
Marlin Mfg Corp Cleveland OH	216-941-6200
Marlow Industries Inc Garland TX	214-494-2521
Matrix Corp Indianapolis IN	317-248-2036
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
MKC Electronics Corp Kansas City KS	913-371-1351
Moore Products Co Spring House PA	215-646-7400
Nannac Corp Framingham Centre MA	617-872-4811
Newport Electronics Inc Santa Ana CA	714-540-4914
Omega Engineering Inc Stamford CT	203-359-1660
Omron Electronics Inc Schaumburg IL	312-843-7900
Ovenaire Div Electronic Technologies Inc	
Charlottesville VA	804-977-8050
Oven Industries Inc Mechanicsburg PA	717-766-0721
Pace Transducer Co Div Cj Instr Inc	
Tarzana CA	818-996-4131
Pacific Electro Dynamics Inc Redmond WA	206-881-1700
Parko Electronics Co Inc Irvine CA	714-660-8014
Payne Engineering Co Scott Depot WV	304-757-7353
Peco Controls Corp Milpitas CA	408-262-4050
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Power Control Corp Pittsburgh PA	412-782-3120
PPM Inc Cleveland OH	216-292-6006
Pycro Inc Pennell PA	215-757-3074
Quantem Corp Trenton NJ	609-883-9191

Research Instrument Co Inc	203-528-9625
South Windsor CT	
RI/Control Systems Div Research Inc	
Minneapolis MN	612-941-3300
Robicon Corp Pittsburgh PA	412-327-7000
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Rugid Computer Sacramento CA	916-344-5064
Safeway Products Inc Middletown CT	203-346-6601
SAS Systems Inc Norcross GA	404-448-4190
Scientific Instruments Inc	
West Palm Beach FL	305-659-5885
Sensortek Inc Clifton NJ	201-779-5577
Sigma Systems Corp San Diego CA	619-283-3193
Simco/Ramic Corp Medford OR	503-776-9800
Simpson Electric Co Elgin IL	312-697-2260
Solid Controls Inc Minneapolis MN	612-941-6110
Spartan of Canada Ltd London ON	519-455-6320
Spartan Technology Inc Rio Rancho NM	505-892-3300
SSAC Inc Liverpool NY	315-622-1000
Stone Safety Corp Wallingford CT	203-265-7131
Strawberry Tree Computers Sunnyvale CA	408-736-3083
Sundstrand Data Control Inc Redmond WA	206-885-3711
Sun Electronic Systems Inc Ft Lauderdale FL	305-587-5577
Sunne Controls Div Peco Inc Portland OR	503-233-6401
Superior Electric Co The Bristol CT	203-582-9561
Surgeonics Ltd Mt Kisco NY	914-241-3203
Sym-Tek Systems Inc San Diego CA	619-569-8000
Syracuse Electronics Syracuse NY	315-488-4911
Syscon International Inc South Bend IN	219-232-3900
Technology 80 Inc Minneapolis MN	612-542-9545
Telatemp Corp Fullerton CA	714-879-2901
Therm-O-Disc Inc Mansfield OH	419-756-5911
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
ThermoElectric Cooling America Corp	
Chicago IL	312-666-1600
Thermometrics Inc Edison NJ	201-287-2870
Thermionics Inc Santa Clara CA	408-496-6838
Thermotron Industries Holland MI	616-392-1492
Trans-Met Engineering Inc La Habra CA	213-691-2266
Transwave Corp Vanderbilt PA	412-628-6370
United Electric Controls Co Watertown MA	617-926-1000
Vapor Corp Chicago IL	312-631-9200
Vermont Automation Co Inc	
Essex Junction VT	802-879-7571
Watlow Electric Winona MN	507-454-5300
West Coast Plastics Equipment Inc	
Culver City CA	213-870-7733
West Coast Research Corp Los Angeles CA	213-478-8833
Williamson Corp Concord MA	617-369-9607
Winland Electronics Inc Mankato MN	507-625-7231
Yellow Springs Instrument Co Inc	
Yellow Springs OH	513-767-7241

CONTROLS—TENSION

BEI MOTION SYS CO DIGITAL PRODUCTS DIV	
LITTLE ROCK AR	501-851-4000
ADV PGS 176.177	
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ENVIROMARINE SYSTEMS INC	
LAUREL MD	301-598-8833
SCHAEVITZ ENGINEERING	
PENNSAUKEN NJ	609-662-8000
Acrotech Brea CA	714-529-4666
Analogic Corp Peabody MA	617-532-5660
Avtron Mfg Inc Cleveland OH	216-641-8310
Azonix Corp Burlington MA	617-273-5550
BEI Motion Sys Co Digital Products Div	
Little Rock AR	501-851-4000
Bellofram Corp A Rexnord Co Burlington MA	617-272-2100
Control Technology Co Inc	
Long Island City NY	718-361-2133
Datatron Labs Inc Sussex NJ	914-856-4313
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dillon & Co Inc W C Santa Rosa CA	707-527-5555
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Emerson Industrial Controls Santa Ana CA	714-545-5581
Engineered Technical Products Inc	
Somerville NJ	201-725-0330
Enviro Marine Systems Inc Laurel MD	301-598-8833
Fincor Incom Intl Inc York PA	717-757-4641
GSE Inc Farmington Hills MI	313-476-7875
Heller Corp G K Floral Park NY	800-323-6674
Hurlertron Inc Danville IL	217-446-6500
Industrial Control Co Rockledge FL	305-259-7105
Louis Allis Div MagneTek Inc Milwaukee WI	414-481-6000
Luft Instruments Inc Lincoln MA	617-259-9215
Martin-Decker Cedar Park TX	512-331-0411
Payne Engineering Co Scott Depot WV	304-757-7353
Photobell Co Inc Fairfield NJ	201-227-3613
PMI Motion Technologies Commack NY	516-864-1000
Power Control Corp Pittsburgh PA	412-782-3120
Power-UPS Corp Bohemia NY	516-589-3602
Reliance Electric Co Cleveland OH	800-245-4497
Schaevitz Engineering Pennsauken NJ	609-662-8000
Sensor Developments Inc Oxford MI	313-628-2727
Sequential Information Systems Inc	
Elmsford NY	914-592-5930
Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
Tensitron Inc Harvard MA	617-456-3511
Unico Inc Franksville WI	414-886-5678
Warner Electric Brake & Clutch Co	
South Beloit IL	815-389-3771
West Coast Research Corp Los Angeles CA	213-478-8833

CONTROLS—TORQUE

BEI MOTION SYS CO DIGITAL PRODUCTS DIV	
LITTLE ROCK AR	501-851-4000
ADV PGS 176.177	
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133

Acrotech Brea CA	714-529-4666
Action Instruments Inc San Diego CA	619-279-5726
Analogic Corp Peabody MA	617-532-5660
Armstrong Bros Tool Co Chicago IL	312-763-3333
Azonix Corp Burlington MA	617-273-5550
B & B Motor & Control Corp Burlington CT	718-784-1313
BEI Motion Sys Co Digital Products Div	
Little Rock AR	501-851-4000
Columbia Research Labs Inc Woodlyn PA	215-872-3900
Control Technology Co Inc	
Long Island City NY	718-361-2133
Cronics Inc Lebanon NH	603-448-6300
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Electro-Craft Corp Hopkins MN	612-931-2700
Emerson Industrial Controls Santa Ana CA	714-545-5581
Fae Industries Inc Huntington Station NY	516-271-0300
Glentek Inc El Segundo CA	213-322-3026
GSE Inc Farmington Hills MI	313-476-7875
Heller Corp G K Floral Park NY	800-323-6674
Himmelstein & Co S Hoffman Estates IL	312-843-3300
Indikon Corp Cambridge MA	617-447-3604
Industrial Control Co Rockledge FL	305-259-7105
Inland Motor Specialty Prods Div-Kollmorgen Corp	
Radford VA	703-639-9045
Louis Allis Div MagneTek Inc Milwaukee WI	414-481-6000
MEKontrol Inc Northboro MA	617-393-2451
Payne Engineering Co Scott Depot WV	304-757-7353
PMI Motion Technologies Commack NY	516-864-1000
Power-UPS Corp Bohemia NY	516-589-3602
Rae Corp McHenry IL	815-385-3500
Reliance Electric Co Cleveland OH	800-245-4497
Reuland Electric Co City of Industry CA	213-964-6411
Sensor Developments Inc Oxford MI	313-628-2727
Sequential Information Systems Inc	
Elmsford NY	914-592-5930
Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
Waters Mfg Inc Wayland MA	617-358-2777
West Coast Research Corp Los Angeles CA	213-478-8833
Westinghouse Elec Corp Control Div	
Oldsmar FL	813-855-4621

CONTROLS—TRAFFIC

Continental Instruments Corp Westbury NY	516-334-0900
Crouse-Hinds Co Syracuse NY	315-477-7000
Crydom Div Intl Rectifier Corp El Segundo CA	213-322-4987
Master Electronic Controls Los Angeles CA	213-452-1336
Robot Industries Inc Dearborn MI	313-846-2623
SSAC Inc Liverpool NY	315-622-1000
Tork Inc Mt Vernon NY	914-664-3542

CONTROLS—TUNING

See Tuners

CONTROLS—TV

See TV Transmitter Controls; TV Video Control

Consoles

CONTROLS—ULTRASONIC

See Ultrasonic Equipment

CONTROLS—VACUUM SYSTEM

Allied Witan Co Inc Cleveland OH	216-237-9630
Andonian Cryogenics Inc Newtonville MA	617-969-8010
Automatic Switch Co Florham Park NJ	201-966-2000
Automatic Test Systems Malden MA	617-322-1107
Brew & Co Inc Richard D Concord NH	603-225-6605
Bristol Babcock Inc Waterbury CT	203-575-3000
Circuits Processing Apparatus Inc	
Fremont CA	415-490-8741
Computer Instruments Corp I & C Div	
Hempstead NY	516-483-8200
Control Technology Corp Hopkinton MA	617-435-9595
Cooke Vacuum Products Inc	
South Norwalk CT	203-853-9500
Cryolab Inc San Luis Obispo CA	805-541-2796
CVC Products Inc Rochester NY	716-458-2550
Dietz Co Inc Henry G Long Island City NY	718-726-3347
Edwards High Vacuum (Canada) Ltd	
Oakville ON	416-845-3437
The Foxboro Co Foxboro MA	617-543-8750
Fredericks Co Huntingdon Valley PA	215-947-2500
Gilmont Instruments Inc Great Neck NY	516-487-0120
Granville-Phillips Co Boulder CO	303-443-7660
Honeycomb Systems Inc Biddeford ME	207-282-1521
Honeywell Process Control Div	
Ft Washington PA	215-641-3000
Inficon Leybold-Heraeus Inc	
East Syracuse NY	315-437-0377
IVI Corp Pembroke MA	617-826-3195
Kysor/Cadillac Cadillac MI	616-775-4681
Luft Instruments Inc Lincoln MA	617-259-9215
Matheson Seacaus NJ	201-867-4100
MKS Instruments Inc Burlington MA	617-272-9255
Moore Products Co Springfield House PA	215-646-7400
Parker Pneutronics E Pepperell MA	617-323-2721
Peco Controls Corp Milpitas CA	408-262-4050
Pres-Air-Trol Corp Mamaronck NY	914-698-2026
Pressure Controls Inc Belleville NJ	201-751-5003
RI/Control Systems Div Research Inc	
Minneapolis MN	612-941-3300
RIL Electronics Inc Warrington PA	215-343-5075
Solaiky Bros Inc Chicago IL	312-594-3800
Sloan Technology Corp Santa Barbara CA	805-963-4431
Square D Co Palatine IL	312-397-2600
Teledyne Hastings-Raydist Hampton VA	804-723-6531

United Electric Controls Co Watertown MA	617-926-1000
Varian/Vacuum Products Div Lexington MA	617-861-7200

CONTROLS—WELDING

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Automatic Switch Co Florham Park NJ	201-966-2000
Crouse-Hinds Co Syracuse NY	315-477-7000
Digimetrics Inc Yorkville NY	315-736-0100
Falstrom Co Passaic NJ	201-777-0000
Kahle Engineering Co Union City NJ	201-867-6500
Merrick Engineering Inc Nashville TN	615-259-3900
Partron Controls Corp Chatsworth CA	818-998-3800
Power Functions Engineering Inc Garland TX	214-278-0900
Solaiky Bros Inc Chicago IL	312-594-3800
Sensor Corp Scottsdale PA	412-887-4000
Square D Co Palatine IL	312-397-2600
Struthers-Dunn Inc Pitman NJ	609-589-7500
Syracuse Electronics Syracuse NY	315-488-4900
Taylor-Winfield Corp Warren OH	216-399-8800
Thomson General Inc Woburn MA	617-933-1000
Timeco Inc Huntington WV	304-523-5100
Unimation Inc Danbury CT	203-744-1800
Unitek Corp Indus Equip Oper Monrovia CA	818-574-7800
Weitek Intl Inc South Bend IN	219-232-5400

CONVERTERS—AC POWER

See Power Converters

CONVERTERS—ANALOG TO DIGITAL
(EXCEPT MODULES & ICS)

BEI MOTION SYSTEMS CO CARLSBAD CA	619-931-1500
ADV PGS 176.177	
BEI MOTION SYS CO COMPUTER PRODUCTS DIV	
SAN MARCOS CA	619-471-2600
ADV PGS 176.177	
BEI MOTION SYS CO DIGITAL PRODUCTS DIV	
LITTLE ROCK AR	501-851-4000
ADV PGS 176.177	
BEI MOTION SYS CO INDUSTRIAL ENCODER DIV	
GOLETA CA	805-968-0700
ADV PGS 176.177	
BEI MOTION SYS CO POSITION CONTROLS DIV	
SANTA BARBARA CA	805-966-1500
ADV PGS 176.177	
COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
CONNECTICUT MICROCOMPUTER INC	
NEW MILFORD CT	203-354-9399
ADV PG 150	
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
DCI INC OLATHE KS	913-782-5674
FARRAND CONTROLS DIV FARRAND INDUS INC	
VALHALLA NY	914-761-2600
ILC DATA DEVICE CORP BOHEMIA NY	516-567-5600
INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA	818-991-9600
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1600
ADV PG Gatefold	
PRESTON SCIENTIFIC INC ANAHEIM CA	714-776-6400
ADV PG 139	
Acromag Inc Wixom MI	313-624-1500
Acrosystems Corp Beverly MA	617-927-8880
ADAC Corporation Woburn MA	617-935-6600
Analog Devices Inc Norwood MA	617-329-4700
Analog Solutions Concord CA	415-686-6600
Andromeda Systems Canoga Park CA	818-709-7600
Applied Micro Technology Inc Tucson AZ	602-622-8600
Bailey Controls Co Wickliffe OH	216-585-8500
Base Ten Systems Inc Trenton NJ	609-586-7010
Beckman Industrial Corp Brea CA	714-871-4840
BEI Motion Sys Co Computer Products Div	
San Marcos CA	619-471-2600
BEI Motion Sys Co Digital Products Div	
Little Rock AR	501-851-4000
BEI Motion Sys Co Industrial Encoder Div	
Goleta CA	805-968-0700
BEI Motion Sys Co Position Controls Div	
Santa Barbara CA	805-966-1500
Bourns Inc Resistive Components Group	
Riverside CA	714-781-5005
Burr-Brown Corp Tucson AZ	602-746-1111
Cardion Electronics Div Gen Signal Corp	
Woodbury NY	516-921-7300
Colorado Data Systems Inc Englewood CO	800-237-2803
Columbus Instruments Intl Corp	
Columbus OH	614-488-6100
Computer Conversions Corp	
East Northport NY	516-261-3300
Computer Products Inc Grant Tech Div	
Chelmsford MA	617-256-8880
Connecticut microComputer Inc	
New Milford CT	203-354-9399
Control Technology Co Inc	
Long Island City NY	718-361-2133
Control Technology Div AirBorn Elect Corp	
Garland TX	214-272-5540
Crydom Div Intl Rectifier Corp El Segundo CA	213-322-4987
Datacom Inc Fort Walton Beach FL	904-244-6120
Dataq Instruments Inc Akron OH	216-434-4228
Data-Sud/Systems US Inc Tempe AZ	602-438-1490
Data Tech Div Penril Corp Santa Ana CA	714-546-7160
Datatest Corp Scottsdale AZ	602-948-3228
Datel Div General Electric Co Mansfield MA	617-339-9300
DCI Inc Olathe KS	913-782-5674
Doric Scientific Div Emerson Elec Co	
San Diego CA	619-565-4410
Dowty RFL Industries Inc Commun	
Boonton NJ	201-334-3100

on Instrumentation Inc Van Nuys CA.....	818-781-2185
asco Inc Westwood MA.....	617-329-1500
archild Weston Systems Inc Sarasota FL.....	813-371-0811
arrand Controls Div Farrand Indus Inc Valhalla NY.....	914-761-2600
oxboro Co Foxboro MA.....	617-543-8750
ap Instrument Corp Smithtown NY.....	516-273-0909
ordos Corp Bloomfield NJ.....	201-743-6800
ould Inc Design & Test Sys Div Santa Clara CA.....	408-988-6800
enschel Corp Newburyport MA.....	617-462-2400
ybrid Systems Corp Billerica MA.....	617-667-8700
S Electronics Corp San Jose CA.....	408-263-4844
C Data Device Corp Bohemia NY.....	516-567-5600
ternational Instrumentation Inc Westlake Village CA.....	818-991-9614
oy Cro Spring Valley NY.....	914-425-2000
eds & Northrup Instruments North Wales PA.....	215-643-2000
ncoln Instruments Inc Pasadena CA.....	818-798-0733
icro Networks Co Worcester MA.....	617-852-5400
SS Inc Carpentersville IL.....	312-426-5900
n-Linear Systems Div Kaypro Corp Solana Beach CA.....	619-481-3953
orth Atlantic Industries Inc Hauppauge NY.....	516-582-6500
orthern Precision Labs Inc Fairfield NJ.....	201-227-4800
cean Technology Inc Burbank CA.....	213-849-7111
mega Engineering Inc Stamford CT.....	203-359-1660
oenix Data Inc Phoenix AZ.....	602-278-8528
oneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
eston Scientific Inc Anaheim CA.....	714-776-6400
ocal-Dana Instruments Inc Irvine CA.....	714-859-8999
al Time Systems Inc Mt Vernon NY.....	914-667-0425
l Systems Inc Huntsville AL.....	205-882-4800
rial Lab Products Inc Marlboro MA.....	617-481-1684
nger Co Kearfott Div Little Falls NJ.....	201-785-6000
rawberry Tree Computers Sunnyvale CA.....	408-736-3083
reeter Richardson Div Grayslake IL.....	312-223-4801
ruthers-Dunn Inc Pitman NJ.....	609-589-7500
ndstrand Data Control Inc Redmond WA.....	206-885-3711
sterns Research Labs Inc Dayton OH.....	513-426-6000
chnology 80 Inc Minneapolis MN.....	612-542-9545
dea USA Canoga Park CA.....	818-884-8818
ltronic Inc Beaverton OR.....	800-547-6711
ledyne Philbrick Dedham MA.....	617-329-1600
ledyne Semiconductor Mtn View CA.....	415-968-9241
W LSI Products Div LaJolla CA.....	619-457-1000
stin Electronics Co Santa Ana CA.....	714-549-0391
halla Scientific Inc San Diego CA.....	619-457-5576
eder-Root Hartford CT.....	203-527-7201
rnitech Div Vernitron Corp Deer Park NY.....	516-586-5100

CONVERTERS—ANALOG TO DIGITAL MODULES

OMPUTER CONVERSIONS CORP EAST NORTHPORT NY.....	516-261-3300
ONNECTICUT MICROCOMPUTER INC NEW MILFORD CT.....	203-354-9395
ADV PG 150	
ONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY.....	718-361-2133
TEK MICROSYSTEMS INC LOS GATOS CA.....	408-395-2300
C DATA DEVICE CORP BOHEMIA NY.....	516-567-5600
PORT ELECTRONICS INC SANTA ANA CA.....	714-540-4914
Acromag Inc Wixom MI.....	313-624-1541
ontrol Instruments Inc San Diego CA.....	619-279-5726
AC Corporation Woburn MA.....	617-335-6668
alog Devices Inc Norwood MA.....	617-329-4700
alogic Corp Peabody MA.....	617-532-5660
alog Solutions Concord CA.....	415-866-6660
asco Corp Wakefield MA.....	617-246-3300
okman Industrial Corp Brea CA.....	714-871-4848
rr-Brown Corp Tucson AZ.....	602-746-1111
lex Mfg Co Inc Pleasant Hill CA.....	415-932-3911
inberry Industries Inc Meriden CT.....	203-238-2351
nninati ElectroSystems Inc Loveland OH.....	513-831-4347
omputer Conversions Corp East Northport NY.....	516-261-3300
onnecticut microComputer Inc New Milford CT.....	203-354-9395
ontrol Technology Co Inc Long Island City NY.....	718-361-2133
ontrol Technology Div AirBorn Elect Corp Garland TX.....	214-272-5544
ita General Corp Westboro MA.....	617-366-8911
ita-Sud/Systems US Inc Tempe AZ.....	602-438-1492
ita Tech Div Penril Corp Santa Ana CA.....	714-546-7160
itatan Labs Inc Sussex NJ.....	914-856-4313
ita Translation Inc Marlboro MA.....	617-481-3700
itel Div General Electric Co Mansfield MA.....	617-339-9341
ityronic Corp Miamisburg OH.....	513-866-3300
ital Equipment Corp Maynard MA.....	617-897-5111
IH Industries Inc Torrance CA.....	213-328-0750
inc Winchester MA.....	617-729-7870
isco Inc Westwood MA.....	617-329-1500
erett/Charles Marketing Services Inc Fontana CA.....	714-899-2521
ox Foboro Co Foxboro MA.....	617-543-8750
ip Instrument Corp Smithtown NY.....	516-273-0909
hewlett-Packard Palo Alto CA.....	415-857-8000
ighes Aircraft Co Microelectronic Circuits Div Newport Beach CA.....	714-759-2411
ib Systems Corp Billerica MA.....	617-667-8700
tek Microsystems Inc Los Gatos CA.....	408-395-2300
C Data Device Corp Bohemia NY.....	516-567-5600
ustrial Computer Designs Inc Westlake Village CA.....	818-889-3179
ech Inc Microcircuits Div Santa Clara CA.....	408-988-4930
telic Systems Corp Lockport IL.....	815-338-0005
oy Cro Spring Valley NY.....	914-425-2000
atrox Electronic Systems Dorval PQ.....	514-885-2630
SE Semiconductor Inc West Palm Beach FL.....	305-845-2837
co Networks Co Worcester MA.....	617-852-5400

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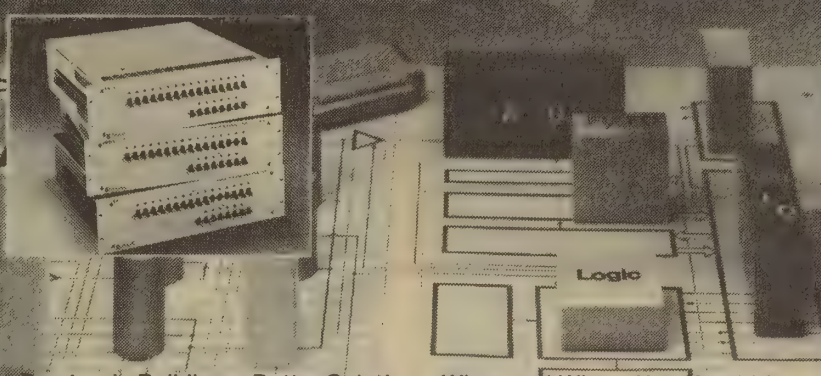
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National Semiconductor Corp Santa Clara CA.....	408-721-5000
Newport Electronics Inc Santa Ana CA.....	714-540-4914
Northern Precision Labs Inc Fairfield NJ.....	201-227-4800
Nuclear Enterprises Ltd Beemham Reading.....	0734-712121
Ocean Technology Inc Burbank CA.....	213-849-7111
Phoenix Data Inc Phoenix AZ.....	602-278-8528
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
Pro-Log Corp Monterey CA.....	408-372-4593
Serial Lab Products Inc Marlboro MA.....	617-481-1684
Singer Co Kearfott Div Little Falls NJ.....	201-785-6000
Solid Controls Inc Minneapolis MN.....	612-941-6110
Square D Co Palatine IL.....	312-397-2600
Teledyne Philbrick Dedham MA.....	617-329-1600
Transmag Electronics Inc Fremont CA.....	415-490-1833
Transmag Electronics Inc Farmingdale NY.....	516-493-3100
Tustin Electronics Co Santa Ana CA.....	714-549-0391
Veeder-Root Hartford CT.....	203-527-7201
Valonex Santa Clara CA.....	408-727-7370
Waugh Controls Corp Chatsworth CA.....	818-998-8281
White Technology Inc Phoenix AZ.....	602-437-1520

CONVERTERS—BINARY TO DECIMAL & DECIMAL TO BINARY (EXCEPT IC DEVICES)

OMPUTER CONVERSIONS CORP EAST NORTHPORT NY.....	516-261-3300
ILC DATA DEVICE CORP BOHEMIA NY.....	516-567-5600
Aydn Monitor Systems Ft Washington PA.....	215-646-8100
Computer Conversions Corp East Northport NY.....	516-261-3300
Control Sciences Inc Chatsworth CA.....	818-709-5510
Cramer Coli & Transformer Co Inc Saukville WI.....	414-284-9425
Decom Systems Inc San Marcos CA.....	619-744-1002
DNH Industries Inc Torrance CA.....	213-328-0750
Epsco Inc Westwood MA.....	617-329-1500
Gap Instrument Corp Smithtown NY.....	516-273-0909
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Histar Corp New York NY.....	212-679-2706
Hughes Aircraft Co Microelectronic Circuits Div Newport Beach CA.....	714-759-2411
ILC Data Device Corp Bohemia NY.....	516-567-5600
Metric Systems Corp Fort Walton Beach FL.....	904-244-9600
Natel Engineering Co Inc Simi Valley CA.....	805-581-3950
Northern Precision Labs Inc Fairfield NJ.....	201-227-4800
Struthers-Dunn Inc Pitman NJ.....	609-589-7500
Transmag Electronics Inc Farmingdale NY.....	516-293-3100
Valhalla Scientific Inc San Diego CA.....	619-457-5576
Veeder-Root Hartford CT.....	203-527-7201

CONVERTERS—DC

See Power Converters; Power Inverters

CONVERTERS—DC SIGNAL TO FREQUENCY (INSTRUMENTATION)

See Also Demodulators; Modems; Modulators;

Synchro Converters

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY.....	718-361-2133
MEASUREMENT SYSTEMS INC NORWALK CT.....	203-838-5561
NEWPORT ELECTRONICS INC SANTA ANA CA.....	714-540-4914
SOLID STATE ELECTRONICS CORP NORTHIDGE CA.....	818-993-8257
Acromag Inc Wixom MI.....	313-624-1541
Acron Instruments Inc San Diego CA.....	619-279-5726
AEG Corporation Somerville NJ.....	201-722-9800
Analog Devices Inc Norwood MA.....	617-329-4700
Anaren Microwave Inc E Syracuse NY.....	315-432-8909
Autronics Corp Arcadia CA.....	818-445-5470
Betatronics Inc Lincolnwood IL.....	312-676-1747
Bristol Babcock Inc Waterbury CT.....	203-575-3000
Burr-Brown Corp Tucson AZ.....	602-746-1111
Control Technology Co Inc Long Island City NY.....	718-361-2133
Data-Control Systems A CompuDyne Co Rockville MD.....	301-279-8798
Datel Div General Electric Co Mansfield MA.....	617-339-9341
DNH Industries Inc Torrance CA.....	213-328-0750
Dowdy RFL Industries Inc Commun Boonton NJ.....	201-334-3100
Dynac Winchester MA.....	617-729-7870
EG & G Almond Instruments Covina CA.....	818-967-9521
Fischer & Porter Co Warmminster NJ.....	215-674-6000
General Magnetics Inc Bloomfield NJ.....	201-743-2700
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Hewlett-Packard Palo Alto CA.....	415-857-8000
Histar Corp New York NY.....	212-679-2706
Hy-Cal Engineering El Monte CA.....	818-444-4000
Intech Inc Microcircuits Div Santa Clara CA.....	408-988-4930
Marel Instrument Co Cape Coral FL.....	813-574-8788
Measurement Systems Inc Norwalk CT.....	203-838-5561
Newport Electronics Inc Santa Ana CA.....	714-540-4914
North Hills Electronics Inc Glen Cove NY.....	516-671-5700
Ocean Technology Inc Burbank CA.....	213-849-7111
Optical Electronics Inc Tucson AZ.....	602-624-8358
Parko Electronics Co Inc Irvine CA.....	714-660-8014

Powermark San Diego CA	619-565-8363
Richard Lee Co New Providence NJ	201-276-0710
Scientific Columbus Unit Esterline Corp	
Columbus OH	614-274-7160
Solid State Electronics Corp Northridge CA	818-993-8257
Spectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA	619-268-7100
Toko America Inc Mt Prospect IL	312-297-0070
Waugh Controls Corp Chatsworth CA	818-998-8281
West Coast Research Corp Los Angeles CA	213-478-8833

CONVERTERS—DIGITAL SYSTEM INTERFACE (EXCEPT CHARACTER GENERATORS)

COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
CONNECTICUT MICROCOMPUTER INC	
NEW MILFORD CT	203-354-9395
ADV PG 150	
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ILC DATA DEVICE CORP BOHEMIA NY	516-567-5600
KEPCO INC FLUSHING NY	718-461-7000
MEASUREMENT SYSTEMS INC	
NORWALK CT	203-838-5561
TELETYPE SOLID STATE DIV TELETYPE RELAYS	
HAWTHORNE CA	213-777-0077
Acromag Inc Wixom MI	313-624-1541
Acrosystems Corp Beverly MA	617-927-8880
Analogue Devices Inc Norwood MA	617-329-4700
Burr-Brown Corp Tucson AZ	602-746-1111
Columbus Instruments Intl Corp	
Columbus OH	614-488-6176
Computer Conversions Corp	
East Northport NY	516-261-3300
Computer Products Inc Grant Tech Div	
Chelmsford MA	617-256-8881
Com/Tech Systems Inc New York NY	212-594-5377
Connecticut microComputer Inc	
New Milford CT	203-354-9395
Control Technology Co Inc	
Long Island City NY	718-361-2133
Convex Corp Washington DC	703-661-8900
Crydom Div Intl Rectifier Corp El Segundo CA	213-322-4987
Datacom Inc Fort Walton Beach FL	904-244-6121
Data General Corp Westboro MA	617-366-8911
Dataprobe Inc Palisades Park NJ	201-947-9500
Datatest Corp Scottsdale AZ	602-948-3280
Decom Systems Inc San Marcos CA	619-744-1002
Designed Enclosures Inc dba DEI Teleproducts	
Escondido CA	619-743-8344
Fairchild Weston Systems Inc Sarasota FL	813-371-0811
Gandalf Data Inc Wheeling IL	312-541-6060
Gap Instrument Corp Smithtown NY	516-273-0909
ICS Electronics Corp San Jose CA	408-263-4844
ILC Data Device Corp Bohemia NY	516-567-5600
Interface Engineering Inc Stoughton MA	617-344-7383
Keppo Inc Flushing NY	718-461-7000
Kinetic Systems Corp Lockport IL	815-838-0005
Measurement Systems Inc Norwalk CT	203-838-5561
Metric Systems Corp Fort Walton Beach FL	904-244-9600
NES Inc Carpentersville IL	312-426-5900
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Nu Data Corp Little Silver NJ	201-842-5757
Ocean Technology Inc Burbank CA	213-849-7111
Perkin Elmer NA Inst Div Elctn Prods Dept	
Norwalk CT	203-762-6574
Phoenix Data Inc Phoenix AZ	602-278-8528
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Serial Lab Products Inc Marlboro MA	617-481-1684
Singer Co Kearfott Div Little Falls NJ	201-785-6000
Sundstrand Data Control Inc Redmond WA	206-885-3711
Systems Research Labs Inc Dayton OH	513-426-6000
Teletype Technology Inc Greenlawn NY	516-423-3232
Telecommunications Techniques Corp	
Gaithersburg MD	301-258-5011
Teletype Solid State Div Teletype Relays	
Hawthorne CA	213-777-0077
Teles Controls Corp Chillicothe OH	614-642-3200
T M Systems Inc Bridgeport CT	203-366-4571
Transmagics Inc Farmingdale NY	516-293-3100
Tustin Electronics Co Santa Ana CA	714-549-0391
Veeder-Roof Hartford CT	203-527-1201
Vernitron Div Vernitron Corp Deer Park NY	516-586-5100
Versitron Div Keene Corp Washington DC	202-722-8600

CONVERTERS—DIGITAL TO ANALOG (EXCEPT MODULES & ICS)

COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ILC DATA DEVICE CORP BOHEMIA NY	516-567-5600
NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
PRESTON SCIENTIFIC INC ANAHEIM CA	714-776-6400
ADV PG 139	
SUPERIOR ELECTRIC CO THE	
BRISTOL CT	203-582-9561
Acromag Inc Wixom MI	313-624-1541
Acrosystems Corp Beverly MA	617-927-8880
Analogue Devices Inc Norwood MA	617-329-4700
Andromeda Systems Canoga Park CA	818-709-7600
Applied Micro Technology Inc Tucson AZ	602-822-8605
Avtron Mfg Inc Cleveland OH	216-641-8310
Aydon Monitor Systems Ft Washington PA	215-646-8100
Beckman Industrial Corp Brea CA	714-871-4848
Burr-Brown Corp Tucson AZ	602-746-1111
Colorado Data Systems Inc Englewood CO	800-237-2831
Computer Conversions Corp	
East Northport NY	516-261-3300

Computer Products Inc Grant Tech Div	
Chelmsford MA	617-256-8881
Control Technology Co Inc	
Long Island City NY	718-361-2133
Crydom Div Intl Rectifier Corp El Segundo CA	213-322-4987
C-Tek Inc Wakefield MA	617-246-1720
Datacom Inc Fort Walton Beach FL	904-244-6121
Data-Sud/Systems US Inc Tempe AZ	602-438-1492
Data Tech Div Penril Corp Santa Ana CA	714-546-7160
Datatest Corp Scottsdale AZ	602-948-3280
Datel Div General Electric Co Mansfield MA	617-339-9341
Decom Systems Inc San Marcos CA	619-744-1002
Digiac Corp Hauppauge NY	516-234-2100
DNH Industries Inc Torrance CA	213-328-0750
Dowty RFL Industries Inc Commun	
Boonton NJ	201-334-3100
Dymec Winchester MA	617-729-7870
Emdress & Hauser Inc Greenwood IN	317-535-7138
Epsco Inc Westwood MA	617-329-1500
Fairchild Weston Systems Inc Sarasota FL	813-371-0811
Flow Technology Inc Phoenix AZ	602-437-1315
The Foxboro Co Foxboro MA	617-543-8750
Gap Instrument Corp Smithtown NY	516-273-0909
Gordos Corp Bloomfield NJ	201-743-6800
Henschel Corp Newburyport MA	617-462-2400
Hewlett-Packard Palo Alto CA	415-857-8000
Hybrid Systems Corp Billerica MA	617-667-8700
ICS Electronics Corp San Jose CA	408-263-4844
ILC Data Device Corp Bohemia NY	516-567-5600
Interface Engineering Inc Stoughton MA	617-344-7383
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Micro Networks Co Worcester MA	617-852-5400
National Microelectronics Inc Semi-Films Div	
West Hurley NY	914-338-7714
Newport Electronics Inc Santa Ana CA	714-540-4914
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Ocean Technology Inc Burbank CA	213-849-7111
Phoenix Data Inc Phoenix AZ	602-278-8528
Preston Scientific Inc Anaheim CA	714-776-6400
SCI Systems Inc Huntsville AL	205-882-4800
Singer Co Kearfott Div Little Falls NJ	201-785-6000
Struthers-Dunn Inc Pitman NJ	609-589-7500
Sundstrand Data Control Inc Redmond WA	206-885-3711
Superior Electric Co The Bristol CT	203-582-9561
Systems Research Labs Inc Dayton OH	513-426-6000
Technology 80 Inc Minneapolis MN	612-542-9545
Tektronix Inc Beaverton OR	800-547-6711
Teletype Philbrick Dedham MA	617-329-1600
Teletype Semiconductor Mtn View CA	415-968-9241
TRW LSI Products Div LaJolla CA	619-457-1000
Tustin Electronics Co Santa Ana CA	714-549-0391
Vernitron Div Vernitron Corp Deer Park NY	516-586-5100

CONVERTERS—DIGITAL TO ANALOG (MODULES)

COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ILC DATA DEVICE CORP BOHEMIA NY	516-567-5600
INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA	818-991-9614
SUPERIOR ELECTRIC CO THE	
BRISTOL CT	203-582-9561
Acromag Inc Wixom MI	313-624-1541
Action Instruments Inc San Diego CA	619-279-5726
Analogue Devices Inc Norwood MA	617-329-4700
Analogue Corp Peabody MA	617-532-5660
Analogue Solutions Concord CA	415-686-6660
Anascope Corp Wakefield MA	617-246-3300
Bailey Controls Co Wickliffe OH	216-585-8500
Beckman Industrial Corp Brea CA	714-871-4848
Burr-Brown Corp Tucson AZ	602-746-1111
Computer Conversions Corp	
East Northport NY	516-261-3300
Control Technology Co Inc	
Long Island City NY	718-361-2133
Data General Corp Westboro MA	617-366-8911
Data-Sud/Systems US Inc Tempe AZ	602-438-1492
Data Tech Div Penril Corp Santa Ana CA	714-546-7160
Datatron Labs Inc Sussex NJ	914-856-4313
Data Translation Inc Marlboro MA	617-481-3700
Datel Div General Electric Co Mansfield MA	617-339-9341
Decom Systems Inc San Marcos CA	619-744-1002
Digital Equipment Corp Maynard MA	617-897-5111
DNH Industries Inc Torrance CA	213-328-0750
Dymec Winchester MA	617-729-7870
Emerson Industrial Controls Santa Ana CA	714-545-5581
Epitex Electronics Inc Ogdensburg NY	613-592-2240
Epsco Inc Westwood MA	617-329-1500
Force Computers Inc Los Gatos CA	408-354-3410
The Foxboro Co Foxboro MA	617-543-8750
Gap Instrument Corp Smithtown NY	516-273-0909
Hewlett-Packard Palo Alto CA	415-857-8000
Hughes Aircraft Co Microelectronic Circuits Div	
Newport Beach CA	714-759-2411
Hybrid Systems Corp Billerica MA	617-667-8700
ILC Data Device Corp Bohemia NY	516-567-5600
Industrial Computer Designs Inc	
Westlake Village CA	818-989-3179
Intech Inc Microcircuits Div Santa Clara CA	408-988-4930
Interface Engineering Inc Stoughton MA	617-344-7383
International Instrumentation Inc	
Westlake Village CA	818-991-9614
Kinetic Systems Corp Lockport IL	815-838-0005
MCE Semiconductor Inc West Palm Beach FL	305-845-2837
Mesa Technology Corp Gaithersburg MD	800-638-2039
Micro Networks Co Worcester MA	617-852-5400
National Semiconductor Corp Santa Clara CA	408-721-5000
NEC Electronics Inc Mtn View CA	415-960-6000
Ocean Technology Inc Burbank CA	213-849-7111
Optical Electronics Inc Tucson AZ	602-624-8358
Perkin Elmer NA Inst Div Elctn Prods Dept	
Norwalk CT	203-762-6574
Phoenix Data Inc Phoenix AZ	602-278-8528

Richard Lee Co New Providence NJ	201-276-0710
Serial Lab Products Inc Marlboro MA	617-481-1684
Soliton Microwave Connector Div	
Port Salerno FL	305-287-5030
Square D Co Palatine IL	312-397-2600
Superior Electric Co The Bristol CT	203-582-9561
Teledyne Philbrick Dedham MA	617-329-1600
Transmagics Inc Farmingdale NY	516-293-3100
Tustin Electronics Co Santa Ana CA	714-549-0391
Waugh Controls Corp Chatsworth CA	818-998-8281
White Technology Inc Phoenix AZ	602-437-1510

CONVERTERS—DIGITAL-TO-SYNCHRO & RESOLVER (EXCEPT MODULES)

See Also Synchro Listings

COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
ILC DATA DEVICE CORP BOHEMIA NY	516-567-5600
Analogue Devices Inc Norwood MA	617-329-4700
Astrosystems Inc Lake Success NY	516-328-1600
Avatar Technologies Hopington MA	617-435-6800
Computer Conversions Corp	
East Northport NY	516-261-3300
Control Sciences Inc Chatsworth CA	818-709-5500
Emerson Industrial Controls Santa Ana CA	714-545-5581
Epsco Inc Westwood MA	617-329-1500
Henschel Corp Newburyport MA	617-462-2400
ILC Data Device Corp Bohemia NY	516-567-5600
Interface Engineering Inc Stoughton MA	617-344-7383
Natel Engineering Co Inc Simi Valley CA	805-581-3900
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Ocean Technology Inc Burbank CA	213-849-7111
Pacific Electro Dynamics Inc Redmond WA	206-881-1700
Perkin Elmer NA Inst Div Elctn Prods Dept	
Norwalk CT	203-762-6574
Singer Co Kearfott Div Little Falls NJ	201-785-6000
Transmagics Inc Farmingdale NY	516-293-3100
Vernitron Div Vernitron Corp Deer Park NY	516-586-5100

CONVERTERS—DIGITAL-TO-SYNCHRO & RESOLVER (MODULES)

See Also Synchro Listings

COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
ILC DATA DEVICE CORP BOHEMIA NY	516-567-5600
Analogue Devices Inc Norwood MA	617-329-4700
Astrosystems Inc Lake Success NY	516-328-1600
Avatar Technologies Hopington MA	617-435-6800
Computer Conversions Corp	
East Northport NY	516-261-3300
Control Sciences Inc Chatsworth CA	818-709-5500
Epsco Inc Westwood MA	617-329-1500
Hughes Aircraft Co Microelectronic Circuits Div	
Newport Beach CA	714-759-2411
ILC Data Device Corp Bohemia NY	516-567-5600
Interface Engineering Inc Stoughton MA	617-344-7383
Natel Engineering Co Inc Simi Valley CA	805-581-3900
Perkin Elmer NA Inst Div Elctn Prods Dept	
Norwalk CT	203-762-6574
Singer Co Kearfott Div Little Falls NJ	201-785-6000
Toko America Inc Mt Prospect IL	312-297-0070
Transmagics Inc Farmingdale NY	516-293-3100
Vernitron Div Vernitron Corp Deer Park NY	516-586-5100

CONVERTERS—FREQUENCY (RADIO FREQUENCY CHANGERS)

CML MACARR DIV BROOKLYN NY	718-857-2411
ADV PG 141	
ELGAR CORP AN ONAN OPERATING UNIT	
SAN DIEGO CA	619-450-0000
GENERAL MICROWAVE CORP	
AMITYVILLE NY	516-226-8900
M/A-COM MICROWAVE POWER DEVICES INC	
HAUAPPAUGE NY	516-231-1400
ADV PG 19	
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3300
Anaren Microwave Inc E Syracuse NY	315-432-8900
Applied Research Inc Plainville NY	516-349-9200
Apron Labs Inc Bloomington IL	812-336-4700
ATV Research Inc Dakota City NE	402-987-3700
Blonder-Tongue Labs Inc Old Bridge NJ	201-679-4000
California Instruments San Diego CA	619-279-8600
California Microwave Inc Sunnyvale CA	408-732-4000
CML Macarr Div Brooklyn NY	718-857-2411
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
Electrac Inc Anaheim CA	714-879-6000
Elgar Corp An Onan Operating Unit	
San Diego CA	619-450-0000
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5500
General Microwave Corp Amityville NY	516-226-8900
Harris Corp RF Commun Grp Rochester NY	716-244-5800
Hughes Aircraft Co Microelectronic Circuits Div	
Newport Beach CA	714-759-2411
Kahn Communications Inc Westbury NY	516-222-2200
LNR Communications Inc Hauppauge NY	516-273-7100
Locust Inc State College PA	814-466-6600
Lorch Electronics Corp Englewood NJ	201-569-8200
M/A-COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
MITEQ Inc Hauppauge NY	516-543-8800
Mu-Dei Electronics Inc Silver Spring MD	301-587-6000
Olektron Corp Webster MA	617-943-7400

lomar Engineers Escondido CA.....	619-747-3343
wermark San Diego CA.....	619-565-8363
IG Electronics Lab Inc Deer Park NY.....	516-242-1100
hde & Schwarz GmbH & Co KG.....	089-41290
Muenchen W Germany.....	408-732-0880
W Microwave Sunnyvale CA.....	

CONVERTERS—FREQUENCY SHIFT (EXCEPT KEYERS)

ORATOR CORP MANASSAS VA.....	703-368-2101
ILID STATE ELECTRONICS CORP NORTHBRIDGE CA.....	818-993-8257
Jams-Russell Co Inc Anzac Div Burlington MA.....	617-273-3333
aren Microwave Inc E Syracuse NY.....	315-432-8909
ratronics Inc Lincolnwood IL.....	312-676-1747
nmData Corp Morton Grove IL.....	312-470-9600
erty RFL Industries Inc Commun Boonton NJ.....	201-334-3100
IP Inc/Frequency Cont Prods Woodside NY.....	718-458-5811
anstar Rental Electronics Inc Woodland Hills CA.....	818-887-4000
orator Corp Manassas VA.....	703-368-2101
AL Communications Corp Urbana IL.....	217-367-7373
iris Corp RF Commun Grp Rochester NY.....	716-244-5830
ektron Corp Webster MA.....	617-943-7440
ilid State Electronics Corp Northridge CA.....	818-993-8257
M Systems Inc Bridgeport CT.....	203-366-4571
ta Labs Inc Sub CCT Santa Clara CA.....	408-727-6001

CONVERTERS—FREQUENCY TO DC SIGNAL (INSTRUMENTATION)

See Also Demodulators; Modems; Synchro

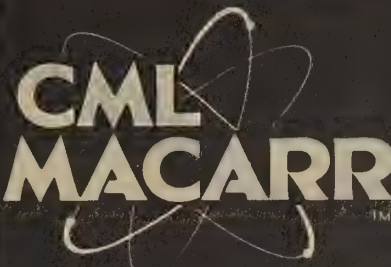
Converters

NTROL TECHNOLOGY CO INC LONG ISLAND CITY NY.....	718-361-2133
ORATOR CORP MANASSAS VA.....	703-368-2101
ILID STATE ELECTRONICS CORP NORTHBRIDGE CA.....	818-993-8257
romag Inc Wixom MI.....	313-624-1541
ntrol Instruments Inc San Diego CA.....	619-279-5726
rpax Corp Ft Lauderdale Div Ft Lauderdale FL.....	305-587-1100
index Inc Camarillo CA.....	805-987-9660
alog Devices Inc Norwood MA.....	617-329-4700
alog Modules Inc Longwood MA.....	305-339-4356
aren Microwave Inc E Syracuse NY.....	315-432-8909
Systems Inc Charlottesville VA.....	804-295-7200
tronics Corp Arcadia CA.....	818-445-5470
iron Mfg Inc Cleveland OH.....	216-641-8310
ilantline Laboratories Inc Boonton NJ.....	201-335-0900
atronics Inc Lincolnwood IL.....	312-676-1747
& F Instruments Div FX Sys Corp Kingston NY.....	914-338-0515
istol Babcock Inc Waterbury CT.....	203-575-3000
nmData Corp Morton Grove IL.....	312-470-9600
ntrol Technology Co Inc Long Island City NY.....	718-361-2133
ompton Instruments Inc Elk Grove Village IL.....	312-593-1107
stom Micro Systems Inc Livonia MI.....	313-559-5397
atran Labs Inc Sussex NJ.....	914-856-4313
tel Div General Electric Co Mansfield MA.....	617-339-9341
el Tel Research Co Inc Montrose CO.....	303-249-6129
B Developments Rome NY.....	315-339-1265
z & G Almond Instruments Covina CA.....	818-967-9521
actrac Inc Anaheim CA.....	714-879-6021
cher & Porter Co Warminster PA.....	215-674-6000
ow Technology Inc Phoenix AZ.....	602-437-1315
neral Magnetics Inc Bloomfield NJ.....	201-743-2700
orator Corp Manassas VA.....	703-368-2101
ffer Flow Controls Port Monmouth NJ.....	201-787-1997
tech Inc Microcircuits Div Santa Clara CA.....	408-988-4930
asametric Inc Foster City CA.....	415-574-4441
eds & Northrup Instruments North Wales PA.....	215-643-2000
arel Instrument Co Cape Coral FL.....	813-574-8788
ore Products Co Spring House PA.....	215-646-7400
orth Hills Electronics Inc Glen Cove NY.....	516-671-5700
cean Technology Inc Burbank CA.....	213-849-7111
ptical Electronics Inc Tucson AZ.....	602-624-8358
arko Electronics Co Inc Irvine CA.....	714-660-8014
ower Control Corp Pittsburgh PA.....	412-782-3120
PM Inc Cleveland OH.....	216-292-6006
chard Lee Co New Providence NJ.....	201-276-0710
ochester Instrument Systems Inc Rochester NY.....	716-263-7700
cientific Columbus Unit Esterline Corp Columbus OH.....	614-274-7160
old State Electronics Corp Northridge CA.....	818-993-8257
onex Corp Philadelphia PA.....	215-533-4900
pectral Dynamics Div Scientific-Atlanta Inc San Diego CA.....	619-268-7100
M Systems Inc Bridgeport CT.....	203-366-4571
alldyne Engineering Corp Northridge CA.....	818-886-2057
ough Controls Corp Chatsworth CA.....	818-998-8281
est Coast Research Corp Los Angeles CA.....	213-478-8833

CONVERTERS—FREQUENCY-TO-VOLTAGE

EG CORPORATION SOMERVILLE NJ.....	201-722-9800
ORATOR CORP MANASSAS VA.....	703-368-2101
ADV PG 141	
cton Instruments Inc San Diego CA.....	619-279-5726
EG Corporation Somerville NJ.....	201-722-9800
alog Devices Inc Norwood MA.....	617-329-4700

or addresses, phones & sales offices, see green pages



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Analog Modules Inc Longwood FL.....	305-339-4356
A-Systems Inc Charlottesville VA.....	804-295-7200
Burr-Brown Corp Tucson AZ.....	602-746-1111
Custom Micro Systems Inc Livonia MI.....	313-559-5397
Dantronics Inc St Paul MN.....	612-484-2108
Datatron Labs Inc Sussex NJ.....	914-856-4313
Datel Div General Electric Co Mansfield MA.....	617-339-9341
D-B Developments Rome NY.....	315-339-1265
Dowty RFL Industries Inc Commun Boonton NJ.....	201-334-3100
Dymec Winchester MA.....	617-729-7870
The Foxboro Co Foxboro MA.....	617-543-8750
Georator Corp Manassas VA.....	703-368-2101
Histar Corp New York NY.....	212-679-2706
Hoffer Flow Controls Port Monmouth NJ.....	201-787-1997
Intech Inc Microcircuits Div Santa Clara CA.....	408-988-4930
Intelligent Controls Inc Saco ME.....	207-883-0156
North Hills Electronics Inc Glen Cove NY.....	516-671-5700
Powermark San Diego CA.....	619-565-8363
PPM Inc Cleveland OH.....	216-292-6006
Raytheon Semiconductor Div Mountain View CA.....	415-968-9211
Red Lion Controls York PA.....	717-767-6511
Richard Lee Co New Providence NJ.....	201-276-0710
Rochester Instrument Systems Inc Rochester NY.....	716-263-7700

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AND NOBRUSH PERMANENT
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 - Superior Line Isolation and Stability.
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Soltec Corp Sun Valley CA.....	818-767-0044
Teledyne Philbrick Dedham MA.....	617-329-1600
Teledyne Semiconductor Mtn View CA.....	415-968-9241
Valdine Engineering Corp Northridge CA.....	818-886-2057
White Technology Inc Phoenix AZ.....	602-437-1520

CONVERTERS—KEYING

See Keyers

CONVERTERS—LINE BALANCE

See Baluns

CONVERTERS—MICROWAVE DOWN & UP

See Microwave Frequency Dividers; Microwave
Frequency Multipliers

CONVERTERS—MICROWAVE UP & DOWN CONVERTERS

See Microwave Converters

CONVERTERS—POLAR TO RECTANGULAR COORDINATES (EXCEPT SERVOS & SYNCHROS)

COMPUTER CONVERSIONS CORP EAST NORTHPORT NY.....	516-261-3300
CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY.....	718-361-2133
Astrosystems Inc Lake Success NY.....	516-328-1600
Computer Conversions Corp East Northport NY.....	516-261-3300
Control Technology Co Inc Long Island City NY.....	718-361-2133
Datacom Inc Fort Walton Beach FL.....	904-244-6121
Gap Instrument Corp Smithtown NY.....	516-273-0909
General Magnetics Inc Bloomfield NJ.....	201-743-2700
Industrial Control Co Rockledge FL.....	305-259-7105
Interface Engineering Inc Stoughton MA.....	617-344-7383
Natel Engineering Co Inc Simi Valley CA.....	805-581-3950
Optical Electronics Inc Tucson AZ.....	602-624-8358
Princeton Electronic Products Inc North Brunswick NJ.....	201-297-4448
Transmagnetics Inc Farmingdale NY.....	516-293-3100

CONVERTERS—POWER

See Power Converters

CONVERTERS—PUNCHED CARD TO TAPE OR PRINTER

Ocean Technology Inc Burbank CA.....	213-849-7111
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CONVERTERS—PUNCHED CARD FROM TAPE OR PRINTER

Ocean Technology Inc Burbank CA.....	213-849-7111
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CONVERTERS, SIGNAL—MORSE TO TELETYPEWRITER

HAL Communications Corp Urbana IL.....	217-367-7373
Ocean Technology Inc Burbank CA.....	213-849-7111

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Phone: (609) 393-4178
Telex: 843314

CONVERTERS, SIGNAL—SHORTWAVE TO SHORTWAVE OR BROADCAST BAND

Lorch Electronics Corp Englewood NJ..... 201-569-8282
Mobil Electronics Inc Anderson IN..... 317-642-7976

CONVERTERS, SIGNAL—SIDE BAND (A-M TO SSB TO DSB)

Anaren Microwave Inc E Syracuse NY..... 315-432-8909
General Magnetics Inc Bloomfield NJ..... 201-743-2700
Harris Corp RF Commun Grp Rochester NY..... 716-244-5830
Kahn Communications Inc Westbury NY..... 516-222-2221
M/A COM Microwave Circuits Inc
Burlington MA..... 617-272-3000
Olektron Corp Webster MA..... 617-943-7440

CONVERTERS—SYNCHRO

See Synchro Converters

CONVERTERS—TAPE-TO-MICROFILM

See Computer Output Microfilm Recorders

CONVERTERS—TAPE TO TAPE, CODE CHANGING

Dataprobe Inc Palisades Park NJ..... 201-947-9500
Mitron Systems Corp Columbia MD..... 301-992-7700
Struthers-Dunn Inc Pitman NJ..... 609-589-7500

CONVERTERS—TAPE TO X-Y PLOT

ENVIROMARINE SYSTEMS INC
LAUREL MD..... 301-598-8833
Enviromarine Systems Inc Laurel MD..... 301-598-8833

CONVERTERS—TELEMETRY

See Converter Type Desired

See Also Demodulators; Modulators & Other

Signal Processing Equipment in Communications
Equipment Reference List

CONVERTERS—THERMOELECTRIC & THERMIONIC

See Power Generators—Thermoelectric;

Thermoelectric Generators—Current Measuring;

Thermopiles—Measuring

CONVERTERS—VOLTAGE TO FREQUENCY (MODULES)

See Also Converters—DC Signal to Frequency;

Power Generators; Power Inverters

ELGAR CORP AN ONAN OPERATING UNIT
SAN DIEGO CA..... 619-450-0085
ADV PG 337
GEORATOR CORP MANASSAS VA..... 703-368-2101
ADV PG 141
MEASUREMENT SYSTEMS INC
NORWALK CT..... 203-838-5561
SOLID STATE ELECTRONICS CORP
NORTHBRIDGE CA..... 818-993-8257

Action Instruments Inc San Diego CA..... 619-279-5726
Analog Devices Inc Norwood MA..... 617-329-4700
Anasco Corp Wakefield MA..... 617-246-3300
Avtel Div Unifron Inc Dallas TX..... 214-340-8600
Burr-Brown Corp Tucson AZ..... 602-746-1111
Dattel Div General Electric Co Mansfield MA..... 617-339-9341
Daytronic Corp Miamisburg OH..... 513-866-3300
Dowty RFL Industries Inc Commun
Boonton NJ..... 201-334-3100
Dymec Winchester MA..... 617-729-7870
Eldec Corp Lynnwood WA..... 206-743-1313
Elgar Corp an Onan Operating Unit
San Diego CA..... 619-450-0085
Fenner Industrial Controls Inc Minneapolis MN..... 612-553-1596
Georator Corp Manassas VA..... 703-368-2101
Histar Corp New York NY..... 212-679-2706
Industrial Test Equipment Powertron
Port Washington NY..... 516-883-1700
Intech Inc Microcircuits Div Santa Clara CA..... 408-988-4930
Marel Instrument Co Cape Coral FL..... 813-574-8788
Measurement Systems Inc Norwalk CT..... 203-838-5561
North Hills Electronics Inc Glen Cove NY..... 516-671-5700
Raytheon Semiconductor Div
Mountain View CA..... 415-968-9211
Richard Lee Co New Providence NJ..... 201-276-0710
Solid State Electronics Corp Northridge CA..... 818-993-8257
Solltron Devices Inc Semiconductor Group
Riviera Beach FL..... 305-848-4311
Tedyne Philbrick Dedham MA..... 617-329-1800
Unifron Inc Dallas TX..... 214-340-8600

COOLANTS—DIELECTRIC LIQUID

See Also Transformer Oils

Bel-Ray Co Inc Farmingdale NJ..... 201-938-2421
Dow Corning Corp Midland MI..... 517-496-4000
General Electric Co Silicone Prods Div
Waterford NY..... 518-237-3330
SWS Silicones Corp Adrian MI..... 517-263-5711

COOLING BLOWERS & FANS

See Blowers & Fans

COOLING HEAT SINKS

See Heat Sinks

COOLING SYSTEMS—CRYOGENIC

See Cryogenic Equipment

COOLING UNITS—CIRCULATING LIQUID (EXCEPT REFRIGERATOR)

BIRD ELECTRONIC CORP
CLEVELAND (SOLOH) OH..... 216-248-1200
EG&G WAKEFIELD ENGRG COMPONENTS DIV
WAKEFIELD MA..... 617-245-5900
TENNEY ENGINEERING INC UNION NJ..... 201-686-7870
ADV PG 84
Airflow Co Frederick MD..... 301-831-3100
Astrodyne Inc Hudson NH..... 603-880-8600
Bird Electronic Corp Cleveland (Solon) OH..... 216-248-1200
Dixon Industries Corp Bristol RI..... 401-253-2000
EG & G Wakefield Engrg Components Div
Wakefield MA..... 617-245-5900
Electro Impulse Lab Inc Red Bank NJ..... 201-741-0404
Electro-Optical Industries Inc
Santa Barbara CA..... 805-964-6701
Forma Scientific Div Mallinckrodt Inc
Marietta OH..... 614-373-4763
FTS Systems Inc Stone Ridge NY..... 914-687-7664
GCA/Instruments & Equip Group Chicago IL..... 312-227-2660
Harris Mfg Co Inc Billerica MA..... 617-667-5116
Interlab Inc Danbury CT..... 203-748-5624
International Electronic Research Corp
Burbank CA..... 213-849-2481
Janitrol Aero Div Midland-Ross Corp
Columbus OH..... 614-276-3561
Kooltronic Inc Hopewell NJ..... 609-466-3400

Lear Siegler Inc Romec Div Elyria OH..... 216-323-32
Lockhart Industries Inc Paramount CA..... 213-774-25
Lytron Inc Woburn MA..... 617-933-73
McLean Engineering Div Zero Corp
Princeton Junction NJ..... 609-799-01
Norton Co Worcester MA..... 617-853-10
Ransco Industries Inc Oxnard CA..... 805-487-77
Sargent-Welch Scientific Co Skokie IL..... 312-677-06
Tenney Engineering Inc Union NJ..... 201-686-78
Zero Corp Burbank CA..... 818-846-41

COOLING UNITS—EVAPORATIVE

MCLEAN MIDWEST SUB ZERO CORP
BROOKLYN PARK MN..... 612-561-94
ADV PG 8
TENNEY ENGINEERING INC UNION NJ..... 201-686-78
ADV PG 84
Airflow Co Frederick MD..... 301-831-31
Automatic Test Systems Maiden MA..... 617-322-11
Brew & Co Inc Richard D Concord NH..... 603-225-66
Cargocaire Engineering Corp Amesbury MA..... 617-388-06
McLean Midwest Sub Zero Corp
Brooklyn Park MN..... 612-561-94
Tenney Engineering Inc Union NJ..... 201-686-78

COOLING UNITS—FIN TYPE

Airflow Co Frederick MD..... 301-831-31
Astrodyne Inc Hudson NH..... 603-880-86
International Electronic Research Corp
Burbank CA..... 213-849-24
Janitrol Aero Div Midland-Ross Corp
Columbus OH..... 614-276-35
Kooltronic Inc Hopewell NJ..... 609-466-34
Lockhart Industries Inc Paramount CA..... 213-774-29
Lytron Inc Woburn MA..... 617-933-73
Marlow Industries Inc Garland TX..... 214-494-25
McLean Engineering Div Zero Corp
Princeton Junction NJ..... 609-799-01
Noren Products Inc Menlo Park CA..... 415-365-06
Schriff Inc Warwick RI..... 401-732-37
Supercool US Inc San Rafael CA..... 415-459-37
Thermalloy Inc Dallas TX..... 214-243-43
ThermoElectric Cooling America Corp
Chicago IL..... 312-666-16
Zero Corp Burbank CA..... 818-846-41

COOLING UNITS—INFRARED DETECTOR

See Infrared Detector Cooling Units

COOLING UNITS—REFRIGERATOR TYPE

BLUE M UNIT OF GENERAL SIGNAL
BLUE ISLAND IL..... 312-385-90
ADV PG 84
CINCINNATI SUB-ZERO PRODUCTS INC
CINCINNATI OH..... 513-772-88
ADV PG 85
MCLEAN MIDWEST SUB ZERO CORP
BROOKLYN PARK MN..... 612-561-94
ADV PG 8
Airflow Co Frederick MD..... 301-831-31
Blue M Unit of General Signal Blue Island IL..... 312-385-90
Cincinnati Sub-Zero Products Inc
Cincinnati OH..... 513-772-88
Electro Impulse Lab Inc Red Bank NJ..... 201-741-0404
Electro-Optical Industries Inc
Santa Barbara CA..... 805-964-6701
Forma Scientific Div Mallinckrodt Inc
Marietta OH..... 614-373-4763
GCA/Instruments & Equip Group Chicago IL..... 312-227-2660
Hammond Mfg Co Inc Buffalo NY..... 716-884-57
Harris Mfg Co Inc Billerica MA..... 617-667-51
Hull Corp Hatboro PA..... 215-672-78
Jersey Technical Electronics Inc Middlesex NJ..... 201-469-81
Kooltronic Inc Hopewell NJ..... 609-466-34
Lear Siegler Inc Santa Monica CA..... 213-452-54
McLean Midwest Sub Zero Corp
Brooklyn Park MN..... 612-561-94
Parker Hannifin Corp Refrig Spec Div
Broadview IL..... 312-681-630
Ransco Industries Inc Oxnard CA..... 805-487-77
Supercool US Inc San Rafael CA..... 415-459-37
Zero Corp Burbank CA..... 818-846-41

COOLING UNITS—THERMOELECTRIC (INCL. PELTIER-EFFECT MODULES)

MELCOR-MATERIALS ELECTRONICS PRODUCTS CORP
TRENTON NJ..... 609-393-417
ADV PG 142
SHOKAI FAR EAST LTD HARTSDALE NY..... 914-681-07
Industrial Inventions Inc
Monmouth Junction NJ..... 201-329-60
Marlow Industries Inc Garland TX..... 214-494-25
Melcor-Materials Electronics Products Corp
Trenton NJ..... 609-393-417
Midland-Ross Corp Electronic Connector Div
Cambridge MA..... 617-491-54
Pacific Instruments Inc Concord CA..... 415-827-90
Products for Research Inc Danvers MA..... 617-774-32
Sensortek Inc Clifton NJ..... 201-779-55
Shokai Far East Ltd Hartsdale NY..... 914-681-07
Supercool US Inc San Rafael CA..... 415-459-37

thermoElectric Cooling America Corp	
Chicago IL	312-666-1600
EMI Gencom Inc Fairfield NJ	201-575-5586
El Corp Santa Ana CA	714-834-9333

COOLING UNITS—THERMOELECTRIC MODULES (PELTIER HEAT PUMPS)

ELCOR-MATERIALS ELECTRONICS PRODUCTS CORP TRENTON NJ	609-393-4178
ADV PG 142	
elcor-Materials Electronics Products Corp	
Trenton NJ	609-393-4178
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
thermoElectric Cooling America Corp	
Chicago IL	312-666-1600

COOLING UNITS—TUBE (INCL. HEAT-RADIATING SHIELDS)

flow Co Frederick MD	301-831-3100
Micro Impulse Lab Inc Red Bank NJ	201-741-0404
International Electronic Research Corp	
Burbank CA	213-849-2481
Johnson Inc Hopewell NJ	609-468-3400
tron Products Inc Menlo Park CA	415-365-0632
IC Inc Newton MA	617-969-7690
EMI Gencom Inc Fairfield NJ	201-575-5586
Iran Electron Device Group Palo Alto CA	415-493-4000

COPPER

See Metals—Beryllium Copper; Metals—Copper;

Wire, Bare

COPPER-OXIDE & COPPER-SULFIDE

RECTIFIERS

See Rectifiers

COPYING MACHINES

See Machines—Copying

ORDERITE

See Ceramic Listings

ORDS—DIAL

See Dial Cords

CORD SETS

GO CORPORATION SOMERVILLE NJ	201-722-9800
MCO ELECTRONICS INC	
PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
MOR CO INC WEYMOUTH MA	617-331-8400
ADV PG 52	
CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
CORD ELECTRONICS INC WESTBURY NY	516-935-3640
NG WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
NEMASTER SWITCH CORP	
WOODSTOCK CT	203-974-1000
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
POWER DYNAMICS INC	
WEST ORANGE NJ	201-736-5722
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Shokai & Co Marlon OH	614-382-8212
3C Telecommunications Minneapolis MN	612-835-6800
GO Corporation Somerville NJ	201-722-9800
N Corp Somerset NJ	201-560-1240
led Systems Corp Greensboro NC	919-299-2294
no Electronics Inc Philadelphia PA	215-698-4000
mor Co Inc Weymouth MA	617-331-8400
pha Wire Corp Elizabeth NJ	201-925-8000
merican Electric Cordsets Bensenville IL	312-595-3900
gent Industries Inc Englewood OH	513-836-8633
isto-Craft New York NY	212-924-4041
nbach Co Inc Farmingdale NY	516-420-9800
rol Cable Co Inc Electn Cables Div	
Pawtucket RI	401-724-9605
rol Cable Co West Rancho Dominguez CA	213-537-8050
nsolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
rd Electronics Inc Westbury NY	516-935-3640
navox Inc Components Div	
Eden Prairie MN	612-941-0690
ardon Wire & Cable Inc Wheeling IL	312-459-1000
ctro Cords Div Middlebury IN	219-825-9466
ivitt Wire & Cable Co Inc Brookfield MA	617-867-6476
ITT Pomona Electronics Pomona CA	714-623-3463
ng Wire & Cable Corp Jamaica NY	718-657-4422
nemaster Switch Corp Woodstock CT	203-974-1000
nn Electronics Corp Feasterville PA	215-355-8200

Manhattan Electric Cable Corp Rye NY	609-455-8530
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
Miller Elec Co Div Carol Cable Co	
Pawtucket RI	401-728-7000
Mouser Electronics Mansfield TX	817-483-0165
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Pacific Electriord Co Gardena CA	213-532-6600
Panel Components Corp Santa Rosa CA	707-523-0600
Power Dynamics Inc West Orange NJ	201-736-5722
Royal Electric Div FL Indus Inc Pawtucket RI	401-722-8600
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
SMK Electronics Corp USA Placentia CA	714-996-0960
SPC Technology Bensenville IL	312-766-6711
Storm Products Co Ingewood CA	213-776-8141
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800

CORDS—LACING (INCL. RIBBON & TAPE)

KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Alpha Wire Corp Elizabeth NJ	201-925-8000
Amrad Div Transcon Mfg Co Ft Smith AR	501-452-3987
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Essex Group/IVI Ft Wayne IN	219-461-4000
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
King Wire & Cable Corp Jamaica NY	718-657-4422
Kulka Smith Inc Manassquan NJ	201-223-9400
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Vertex Electronics Inc Farmingdale NY	516-293-9880

CORDS—LINE

See Wire—Line Cord

ALMOR CO INC WEYMOUTH MA	617-331-8400
ADV PG 52	
CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA	818-991-9614
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
AFN Corp Somerset NJ	201-560-1240
Almor Co Inc Weymouth MA	617-331-8400
American Electric Cable Co Holyoke MA	413-539-9893
American Electric Cordsets Bensenville IL	312-595-3900
Aristo-Craft New York NY	212-924-4041
Birnbach Co Inc Farmingdale NY	516-420-9800
Carol Cable Co Inc Electn Cables Div	
Pawtucket RI	401-724-9605
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Electro Cords Div Middlebury IN	219-825-9466
International Configurations Inc Enfield CT	203-749-6380
International Instrumentation Inc	
Westlake Village CA	818-991-9614
King Wire & Cable Corp Jamaica NY	718-657-4422
Lynn Electronics Corp Feasterville PA	215-355-8200
Manhattan Electric Cable Corp Rye NY	609-455-8530
Miller Elec Co Div Carol Cable Co	
Pawtucket RI	401-728-7000
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Ora Electronics Div Alliance Rsch Corp	
Chatsworth CA	818-701-5848
Pacific Electriord Co Gardena CA	213-532-6600
Panel Components Corp Santa Rosa CA	707-523-0600
Philmore Mfg Co Inc Inwood NY	516-239-6161
Royal Electric Div FL Indus Inc Pawtucket RI	401-722-8600
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Storm Products Co Ingewood CA	213-776-8141
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Virginia Plastics Co Roanoke VA	703-985-3811

CORDS—PATCH

AMP INCORPORATED HARRISBURG PA	717-564-0100
CORD ELECTRONICS INC WESTBURY NY	516-935-3640
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TROMPETER ELECTRONICS INC	
WESTLAKE VILLAGE CA	818-707-2020
ADC Telecommunications Minneapolis MN	612-835-6800
Allied Systems Corp Greensboro NC	919-299-2294
AMP Incorporated Harrisburg PA	717-564-0100
A P Products Incorporated Mentor OH	216-354-2101
Audio Accessories Inc Marlow NH	603-446-3335
Birnbach Co Inc Farmingdale NY	516-420-9800
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Component Mfg Svc Inc	
West Bridgewater MA	617-580-0111
Cord Electronics Inc Westbury NY	516-935-3640

Dynatech Data Systems Springfield VA	703-569-9000
Electro Standards Lab Inc Providence RI	401-943-1164
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
International Data Sciences Inc Lincoln RI	401-333-6200
ITT Pomona Electronics Pomona CA	714-623-3463
Johnson Co E F/Components Div	
Vaseca MN	507-835-6222
King Wire & Cable Corp Jamaica NY	718-657-4422
Kulka Smith Inc Manassquan NJ	201-223-9400
Lynn Electronics Corp Feasterville PA	215-355-8200
Mac Panel Co High Point NC	919-884-8111
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
Mueller Electric Co Cleveland OH	216-771-5225
National Tel-Tronics Div Technodyne Inc	
Meadville PA	814-724-6440
Ora Electronics Div Alliance Rsch Corp	
Chatsworth CA	818-701-5848
Paraplegics Mfg Co Inc Bensenville IL	312-625-7740
Philmore Mfg Co Inc Inwood NY	516-239-6161
Ross Co Milton Southampton PA	215-355-0200
Sager Hingham MA	617-749-6700
Sealectro Corp Trumbull CT	203-372-4118
Shokai Far East Ltd Hartsdale NY	914-681-0700
SPC Technology Bensenville IL	312-766-6711
Support Systems Intl Cables & Access Div	
Richmond CA	415-234-9090
Switchcraft Inc Chicago IL	312-792-2700
Tektronix Inc Beaverton OR	800-547-6711
Trimco Inc Libertyville IL	312-362-3700
Trompeter Electronics Inc	
Westlake Village CA	818-707-2020
Vector Electronic Co Inc Sylmar CA	818-365-9861
Victor Corp West Warwick RI	401-821-7800
Virginia Panel Corp Waynesboro VA	703-949-8376

CORDS—RETRACTILE

ALMOR CO INC WEYMOUTH MA	617-331-8400
ADV PG 52	
CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
CORD ELECTRONICS INC WESTBURY NY	516-935-3640
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
ADC Telecommunications Minneapolis MN	612-835-6800
Almor Co Inc Weymouth MA	617-331-8400
Alpha Wire Corp Elizabeth NJ	201-925-8000
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Birnbach Co Inc Farmingdale NY	516-420-9800
Champlain Cable Corp Winooski VT	802-655-2121
Coaxco Inc Tualatin OR	503-692-2900
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Cord Electronics Inc Westbury NY	516-935-3640
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
ITT Pomona Electronics Pomona CA	714-623-3463
King Wire & Cable Corp Jamaica NY	718-657-4422
Lynn Electronics Corp Feasterville PA	215-355-8200
National Electric Cable Portland OR	503-620-9400
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Omega Engineering Inc Stamford CT	203-359-1660
Ora Electronics Div Alliance Rsch Corp	
Chatsworth CA	818-701-5848
Philmore Mfg Co Inc Inwood NY	516-239-6161
RIL Electronics Inc Warrington PA	215-343-5075
Royal Electric Div FL Indus Inc Pawtucket RI	401-722-8600
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Storm Products Co Ingewood CA	213-776-8141
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Virginia Plastics Co Roanoke VA	703-985-3811

CORE MEMORIES

See Memories

CORE PLANE FRAMES

Allegheny Ludlum Steel Corp Pittsburgh PA	412-394-2800
CTS Fabri-Tek Inc Eden Prairie MN	612-941-9100

CORES—DELAY LINE (INCL. METALIZED)

Allegheny Ludlum Steel Corp Pittsburgh PA	412-394-2800
Cortec Inc Huntington Bch CA	714-897-2529
Engineered Components Co	
San Luis Obispo CA	805-544-3800
Idea Industries Inc Millington NJ	201-647-2734
Kappa Networks Inc Rahway NJ	201-541-1600
Micrometals Inc Anaheim CA	714-630-7420
National Moldite Co Newark NJ	201-589-6860
Precision Paper Tube Co Wheeling IL	312-537-4250
Pyroferic International Inc Toledo IL	217-849-3300
The Stackpole Corp Elctn Components Div	
St Marys PA	814-781-1234

CORES—FERRITE

See Magnetic Materials—Ferrites, Soft

CORES, LAMINATED—C TYPE

Arnold Engineering Co Marengo IL.....	815-568-2000
Aydin Radar & EW Div San Jose CA.....	408-629-1100
Infnetics Inc Hackensack NJ.....	201-343-9405
Inter-Technical Group Inc Irvington NY.....	914-591-8822
Magnetic Metals Corp Camden NJ.....	609 964-7842
Magnetics Div Spang Co Butler PA.....	412-282-8282
Neco Hammond Inc Baraboo WI.....	608-356-3921
SL Electronics Div SL Ind Inc Westville NJ.....	609-456-7300
Tempel Steel Co Niles IL.....	312-282-9400

CORES, LAMINATED—E TYPE

Arnold Engineering Co Marengo IL.....	815-568-2000
Aydin Radar & EW Div San Jose CA.....	408-629-1100
Endicott Coil Co Inc Binghamton NY.....	607-797-1263
Inter-Technical Group Inc Irvington NY.....	914-591-8822
Magnetic Metals Corp Camden NJ.....	609 964-7842
Magnetics Div Spang Co Butler PA.....	412-282-8282
SL Electronics Div SL Ind Inc Westville NJ.....	609-456-7300
Tempel Steel Co Niles IL.....	312-282-9400

CORES, LAMINATED—FOIL WOUND

Arnold Engineering Co Marengo IL.....	815-568-2000
Infnetics Inc Electromagnetic Div.....	
Wilmington DE.....	302-658-2471
Inter-Technical Group Inc Irvington NY.....	914-591-8822
Magnetic Metals Corp Camden NJ.....	609 964-7842
Magnetics Div Spang Co Butler PA.....	412-282-8282
SL Electronics Div SL Ind Inc Westville NJ.....	609-456-7300

CORES, LAMINATED—HIGH PERMEABILITY

Arnold Engineering Co Marengo IL.....	815-568-2000
Dentronics Inc Hackensack NJ.....	201-343-9405
Endicott Coil Co Inc Binghamton NY.....	607-797-1263
Hutchinson Technology Inc Hutchinson MN.....	612-587-3797
Infnetics Inc Electromagnetic Div.....	
Wilmington DE.....	302-658-2471
Inter-Technical Group Inc Irvington NY.....	914-591-8822
Magnetic Metals Corp Camden NJ.....	609 964-7842
Magnetics Div Spang Co Butler PA.....	412-282-8282
SL Electronics Div SL Ind Inc Westville NJ.....	609-456-7300
Tempel Steel Co Niles IL.....	312-282-9400

CORES, LAMINATED—SOLENOID & RELAY

Arnold Engineering Co Marengo IL.....	815-568-2000
Magnetic Metals Corp Camden NJ.....	609 964-7842
Tempel Steel Co Niles IL.....	312-282-9400

CORES, LAMINATED—TAPE WOUND

Arnold Engineering Co Marengo IL.....	815-568-2000
Aydin Radar & EW Div San Jose CA.....	408-629-1100
Infnetics Inc Electromagnetic Div.....	
Wilmington DE.....	302-658-2471
Inter-Technical Group Inc Irvington NY.....	914-591-8822
Magnetic Metals Corp Camden NJ.....	609 964-7842
Magnetics Div Spang Co Butler PA.....	412-282-8282
SL Electronics Div SL Ind Inc Westville NJ.....	609-456-7300

CORES, LAMINATED—TOROIDAL

Arnold Engineering Co Marengo IL.....	815-568-2000
Aydin Radar & EW Div San Jose CA.....	408-629-1100
Infnetics Inc Electromagnetic Div.....	
Wilmington DE.....	302-658-2471
Inter-Technical Group Inc Irvington NY.....	914-591-8822
Magnetic Metals Corp Camden NJ.....	609 964-7842
Magnetics Div Spang Co Butler PA.....	412-282-8282
SL Electronics Div SL Ind Inc Westville NJ.....	609-456-7300
Stetron International Inc Buffalo NY.....	716-854-3443

CORES, MOLDED MAGNETIC—CERAMIC

KRYSSTINEL CORP PATERSON NJ.....	201-345-8900
TKD CORP TOKYO JAPAN.....	03-278-5111
Allegheny Ludlum Steel Corp Pittsburgh PA.....	412-394-2800
Ceramic Magnetics Inc Fairfield NJ.....	201-227-4222
Diamondite Products Shreve OH.....	216-567-2145
Fair-Rite Products Corp Walkkill NY.....	914-895-2055
Ferronics Inc Fairport NY.....	716-223-1010
Ferroxcube Saugerties NY.....	914-246-2811
Kahgan Electronics Corp Hempstead NY.....	516-538-2300
Krystinel Corp Paterson NJ.....	201-345-8900
Magnetic Metals Corp Camden NJ.....	609 964-7842
Magnetics Div Spang Co Butler PA.....	412-282-8282
National Moldite Co Newark NJ.....	201-589-6860
Permag Corp Hicksville NY.....	516-822-3311
The Stackpole Corp Elctn Components Div.....	
St Marys PA.....	814-781-1234
Steward Mfg Co D M Chattanooga TN.....	615-867-4100
TDK Corp Tokyo Japan.....	03-278-5111

CORES, MOLDED MAGNETIC—CUP

KRYSSTINEL CORP PATERSON NJ.....	201-345-8900
TKD CORP TOKYO JAPAN.....	03-278-5111
Allegheny Ludlum Steel Corp Pittsburgh PA.....	412-394-2800
Arnold Engineering Co Marengo IL.....	815-568-2000
Ceramic Magnetics Inc Fairfield NJ.....	201-227-4222
Core-Tronics Inc Orange NJ.....	201-673-7660
Cortec Inc Huntington Bch CA.....	714-897-2529
Fair-Rite Products Corp Walkkill NY.....	914-895-2055
Ferroxcube Saugerties NY.....	914-246-2811
Kahgan Electronics Corp Hempstead NY.....	516-538-2300
Krystinel Corp Paterson NJ.....	201-345-8900
Magnetic Metals Corp Camden NJ.....	609 964-7842
Magnetics Div Spang Co Butler PA.....	412-282-8282
National Moldite Co Newark NJ.....	201-589-6860
Permag Corp Hicksville NY.....	516-822-3311
Pyroferic International Inc Toledo IL.....	217-849-3300
Quality Components Inc St Marys PA.....	814-834-2817
The Stackpole Corp Elctn Components Div.....	
St Marys PA.....	814-781-1234
Steward Mfg Co D M Chattanooga TN.....	615-867-4100
TDK Corp Tokyo Japan.....	03-278-5111

CORES, MOLDED MAGNETIC—FERRITE FOR COILS

KRYSSTINEL CORP PATERSON NJ.....	201-345-8900
TKD CORP TOKYO JAPAN.....	03-278-5111
THOMSON COMPONENTS MOSTEK CORP PASSIVE COMPS DIV WOODLAND HILLS CA.....	818-887-1010
Allegheny Ludlum Steel Corp Pittsburgh PA.....	412-394-2800
Ceramic Magnetics Inc Fairfield NJ.....	201-227-4222
Fair-Rite Products Corp Walkkill NY.....	914-895-2055
Ferronics Inc Fairport NY.....	716-223-1010
Ferroxcube Saugerties NY.....	914-246-2811
Kahgan Electronics Corp Hempstead NY.....	516-538-2300
Krystinel Corp Paterson NJ.....	201-345-8900
Magnetics Div Spang Co Butler PA.....	412-282-8282
Micrometals Inc Anaheim CA.....	714-630-7420
National Moldite Co Newark NJ.....	201-589-6860
Permag Corp Hicksville NY.....	516-822-3311
Philips Electronic Comps & Matis Div.....	
Eindhoven Netherlands.....	040791111
Siemens Components Inc Iselin NJ.....	201-321-3400
The Stackpole Corp Elctn Components Div.....	
St Marys PA.....	814-781-1234
Steward Mfg Co D M Chattanooga TN.....	615-867-4100
TDK Corp Tokyo Japan.....	03-278-5111
Thomson Components Mostek Corp Passive Comps Div.....	
Woodland Hills CA.....	818-887-1010
Workman Electronic Products Inc.....	
Sarasota FL.....	800-237-6666

CORES, MOLDED MAGNETIC—FERRITE FOR DEFLECTION YOKES

ISKRA ELECTRONICS INC FARMINGDALE NY.....	516-753-0400
TKD CORP TOKYO JAPAN.....	03-278-5111
THOMSON COMPONENTS MOSTEK CORP PASSIVE COMPS DIV WOODLAND HILLS CA.....	818-887-1010
Allegheny Ludlum Steel Corp Pittsburgh PA.....	412-394-2800
Ceramic Magnetics Inc Fairfield NJ.....	201-227-4222
Ferronics Inc Fairport NY.....	716-223-1010
ISKRA Electronics Inc Farmingdale NY.....	516-753-0400
Permag Corp Hicksville NY.....	516-822-3311
Philips Electronic Comps & Matis Div.....	
Eindhoven Netherlands.....	040791111
The Stackpole Corp Elctn Components Div.....	
St Marys PA.....	814-781-1234
Stetron International Inc Buffalo NY.....	716-854-3443
Steward Mfg Co D M Chattanooga TN.....	615-867-4100
TDK Corp Tokyo Japan.....	03-278-5111
Thomson Components Mostek Corp Passive Comps Div.....	
Woodland Hills CA.....	818-887-1010

CORES, MOLDED MAGNETIC—FERRITE FOR MEMORIES

KRYSSTINEL CORP PATERSON NJ.....	201-345-8900
THOMSON COMPONENTS MOSTEK CORP PASSIVE COMPS DIV WOODLAND HILLS CA.....	818-887-1010
Allegheny Ludlum Steel Corp Pittsburgh PA.....	412-394-2800
Amper Corp Redwood City CA.....	415-367-2011
CTS Fabri-Tek Inc Eden Prairie MN.....	612-941-9100
Krystinel Corp Paterson NJ.....	201-345-8900
Permag Corp Hicksville NY.....	516-822-3311
Philips Electronic Comps & Matis Div.....	
Eindhoven Netherlands.....	040791111
Stetron International Inc Buffalo NY.....	716-854-3443
Steward Mfg Co D M Chattanooga TN.....	615-867-4100
Thomson Components Mostek Corp Passive Comps Div.....	
Woodland Hills CA.....	818-887-1010

CORES, MOLDED MAGNETIC—POWDERED IRON

TKD CORP TOKYO JAPAN.....	03-278-5111
THOMSON COMPONENTS MOSTEK CORP PASSIVE COMPS DIV WOODLAND HILLS CA.....	818-887-1010

Allegheny Ludlum Steel Corp Pittsburgh PA.....	412-394-2800
Arnold Engineering Co Marengo IL.....	815-568-2000
Core-Tronics Inc Orange NJ.....	201-673-7660
Cortec Inc Huntington Bch CA.....	714-897-2529
Kahgan Electronics Corp Hempstead NY.....	516-538-2300
Micrometals Inc Anaheim CA.....	714-630-7420
Midland-Ross Corp Electronic Connector Div.....	
Cambridge MA.....	617-491-5411
National Moldite Co Newark NJ.....	201-589-6860
Pyroferic International Inc Toledo IL.....	217-849-3300
Quality Components Inc St Marys PA.....	814-834-2817
Stetron International Inc Buffalo NY.....	716-854-3443
TDK Corp Tokyo Japan.....	03-278-5111
Thomson Components Mostek Corp Passive Comps Div.....	
Woodland Hills CA.....	818-887-1010

CORES, MOLDED MAGNETIC—SLUG TUNING UNITS

KRYSSTINEL CORP PATERSON NJ.....	201-345-8900
TKD CORP TOKYO JAPAN.....	03-278-5111
Allegheny Ludlum Steel Corp Pittsburgh PA.....	412-394-2800
Arnold Engineering Co Marengo IL.....	815-568-2000
Core-Tronics Inc Orange NJ.....	201-673-7660
Cortec Inc Huntington Bch CA.....	714-897-2529
Fair-Rite Products Corp Walkkill NY.....	914-895-2055
Ferronics Inc Fairport NY.....	716-223-1010
Kahgan Electronics Corp Hempstead NY.....	516-538-2300
Krystinel Corp Paterson NJ.....	201-345-8900
Micrometals Inc Anaheim CA.....	714-630-7420
National Moldite Co Newark NJ.....	201-589-6860
Philips Electronic Comps & Matis Div.....	
Eindhoven Netherlands.....	040791111
Pyroferic International Inc Toledo IL.....	217-849-3300
The Stackpole Corp Elctn Components Div.....	
St Marys PA.....	814-781-1234
Steward Mfg Co D M Chattanooga TN.....	615-867-4100
TDK Corp Tokyo Japan.....	03-278-5111

CORES, MOLDED MAGNETIC—TOROIDAL

KRYSSTINEL CORP PATERSON NJ.....	201-345-8900
TKD CORP TOKYO JAPAN.....	03-278-5111
THOMSON COMPONENTS MOSTEK CORP PASSIVE COMPS DIV WOODLAND HILLS CA.....	818-887-1010
Allegheny Ludlum Steel Corp Pittsburgh PA.....	412-394-2800
Arnold Engineering Co Marengo IL.....	815-568-2000
Associated Sales & Bag Co Milwaukee WI.....	414-272-2300
Ceramic Magnetics Inc Fairfield NJ.....	201-227-4222
Core-Tronics Inc Orange NJ.....	201-673-7660
Cortec Inc Huntington Bch CA.....	714-897-2529
Fair-Rite Products Corp Walkkill NY.....	914-895-2055
Ferronics Inc Fairport NY.....	716-223-1010
Ferroxcube Saugerties NY.....	914-246-2811
Kahgan Electronics Corp Hempstead NY.....	516-538-2300
Krystinel Corp Paterson NJ.....	201-345-8900
Magnetic Metals Corp Camden NJ.....	609 964-7842
Magnetics Div Spang Co Butler PA.....	412-282-8282
Micrometals Inc Anaheim CA.....	714-630-7420
National Moldite Co Newark NJ.....	201-589-6860
Philips Electronic Comps & Matis Div.....	
Eindhoven Netherlands.....	040791111
Pyroferic International Inc Toledo IL.....	217-849-3300
Quality Components Inc St Marys PA.....	814-834-2817
The Stackpole Corp Elctn Components Div.....	
St Marys PA.....	814-781-1234
Stetron International Inc Buffalo NY.....	716-854-3443
Steward Mfg Co D M Chattanooga TN.....	615-867-4100
TDK Corp Tokyo Japan.....	03-278-5111
Thomson Components Mostek Corp Passive Comps Div.....	
Woodland Hills CA.....	818-887-1010

CORROSION INHIBITORS

See Coating Compounds; Chemicals—Desiccant
Dehumidifiers

COTS—FINGER

See Gloves & Finger Cots

COUNTERMEASURES EQUIPMENT—ELECTRONIC

M/A-COM MICROWAVE POWER DEVICES INC HAUPPAUGE NY.....	516-231-1414
ADV PG 19.....	
SANDERS ASSOCIATES INC NASHUA NH.....	603-885-4343
Aeroflex Labs Inc Plainville NY.....	516-694-8777
Alken Advanced Sys Div Amstar Tech Prods Inc.....	
Alexandria VA.....	703-370-0900
Airtron Div Litton Systems Inc.....	
Morris Plains NJ.....	201-539-5555
American Nucleonics Corp Westlake Vlg CA.....	805-496-2424
Anaren Microwave Inc E Syracuse NY.....	315-432-8989
Applied Communications Div Amstar Tech Prods Inc.....	
Frederick MD.....	301-694-5333
Astronautics Corp of America Milwaukee WI.....	414-447-8282
Aydin Radar & EW Div San Jose CA.....	408-629-1100
Comstron Corp Freeport NY.....	516-546-9777
Cubic Corp San Diego CA.....	619-277-8777

urant Products-Eaton Corp Watertown WI	414-261-4070
iton Corp AIL Div Deer Park NY	516-595-5000
urich-West Systems Inc Syosset NY	516-349-2200
rgo Co San Francisco CA	415-621-1447
neral Instrument Corp Govt Systems Div	
Hicksville NY	516-933-3408
TE Govt Systems Western Div Mt View CA	415-966-2000
arris Corp RF Commun Grp Rochester NY	716-244-5830
ernational Microwave Corp Stamford CT	203-323-5599
JR Communications Inc Hauppauge NY	516-273-7111
ly Electronics & Systems Inc	
Glen Head NY	516-671-9000
/A-COM Microwave Power Devices Inc	
Hauppauge NY	516-231-1400
rad Inc Baltimore MD	301-462-1700
JA Government Systems Div Cherry Hill NJ	609-338-3000
dale Electronics Corp Garden City NY	516-222-0050
nders Associates Inc Nashua NH	603-885-4321
ientific Communications Inc Garland TX	214-840-4900
Systems Inc Huntsville AL	205-882-4800
ope Inc Reston VA	703-471-5600
arton Corp Jackson MI	517-787-8600
arton Electronics Div Spartan Corp	
Jackson MI	517-787-8600
stems Research Labs Inc Dayton OH	513-426-6000
edyne Microelectronics San Diego CA	619-583-3525
omson CSF Inc White Plains NY	914-694-4450
W Microwave Sunnyvale CA	408-732-0880
ran Electron Device Group Palo Alto CA	415-493-4000
hittaker Corp Tasker Sys Div	
Simi Valley CA	805-584-8200

COUNTERMEASURES RECEIVERS

See Receivers—Panoramic

COUNTERS, ANALOG—ELECTROCHEMICAL

JRTIS INSTRUMENTS INC	
MT KISCO NY	914-666-2971
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434,435	
40KAI FAR EAST LTD HARTSDALE NY	914-681-0700
romag Inc Wixom MI	313-624-1541
romatic Timing & Controls Co	
King of Prussia PA	800-441-8245
umar Instrument Corp Ft Wayne Div	
Ft Wayne IN	219-747-3121
ilbiron Instruments Div Burton-Rogers Co	
Walham MA	617-894-6440
ris Instruments Inc Mt Kisco NY	914-666-2971
gle Signal Controls Div Wickes Mfg Co	
Austin TX	512-837-8300
O Instruments Div Sea Data Corp	
ewton MA	617-964-8360
etric Switches Inc Los Angeles CA	213-660-1310
alee Electronics Corp Valley Stream NY	516-825-8955
ybar Corp Little Ferry NJ	201-440-3848
neer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
okai Far East Ltd Hartsdale NY	914-681-0700

COUNTERS, ELECTROMAGNETIC—DIRECT READING

ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434,435	
VIOMARINE SYSTEMS INC	
LAUREL MD	301-598-8833
rams Instrument Corp Lansing MI	517-332-6405
rpax Corp Cheshire Div Cheshire CT	203-272-0301
& B Motor & Control Corp Burlington CT	718-784-1313
umar Instrument Corp Ft Wayne Div	
Ft Wayne IN	219-747-3121
ilbiron Instruments Div Burton-Rogers Co	
Walham MA	617-894-6440
rouzet Controls Inc Schaumburg IL	312-843-2200
e-Tec-Tronic Corp Elgin IL	312-695-9150
urant Products-Eaton Corp Watertown WI	414-261-4070
agle Signal Controls Div Wickes Mfg Co	
Austin TX	512-837-8300
I Instruments Inc Sparks MD	301-771-4800
etric Switches Inc Los Angeles CA	213-660-1310
etric Tachometer Corp Philadelphia PA	215-726-7723
ectrodynamics Inc A Talley Indus Co	
Rolling Meadows IL	312-259-0740
ectronic Resources Div Whitaker Corp	
Burbank CA	818-843-5770
N M Co Chicago IL	312-794-6150
viomarine Systems Inc Laurel MD	301-598-8833
ow Technology Inc Phoenix AZ	602-437-1315
enstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
aydon Switch & Instrument Inc	
Waterbury CT	203-756-7441
iac/Royco Instruments Div Menlo Park CA	415-325-7811
O Industries Inc Eatontown NJ	201-542-5151
essler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
aster Electronic Controls Los Angeles CA	213-452-1336
onteideo Technology Inc Montevideo MN	612-269-6562
ioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
ioneer Systems Inc Instruments Div	
Sunnyvale CA	408-737-7010
edington Counters Inc Windsor CT	203-688-6205
rumeter Co Inc New York NY	212-564-0666
eeder-Root Hartford CT	203-527-7201

COUNTERS, ELECTROMAGNETIC—PRINTOUT

B & B Motor & Control Corp Burlington CT	718-784-1313
Columbus Instruments Intl Corp	
Columbus OH	614-488-6176
De-Tec-Tronic Corp Elgin IL	312-695-9150
Electronic Resources Div Whitaker Corp	
Burbank CA	818-843-5770
E N M Co Chicago IL	312-794-6150
Hiac/Royco Instruments Div Menlo Park CA	415-325-7811
IVO Industries Inc Eatontown NJ	201-542-5151
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
Master Electronic Controls Los Angeles CA	213-452-1336
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600

COUNTERS (INSTRUMENTS)—BATTERY OPERATED (EXCEPT NUCLEAR)

Ballantine Laboratories Inc Boonton NJ	201-335-0900
C-Tek Inc Wakefield MA	617-246-1720
DigiTec Dayton OH	513-254-6251
E I L Instruments Inc Sparks MD	301-771-4800
Electronic Counters & Controls Inc	
Mundelein IL	312-362-8910
Fluke Mfg Co Inc John Everett WA	206-356-5400
Global Specialties Corp New Haven CT	203-624-3103
Hewlett-Packard Palo Alto CA	415-857-8000
Hyde Park Electronics Inc Dayton OH	513-435-2121
International Microtronics Corp Tucson AZ	602-748-7900
IVO Industries Inc Eatontown NJ	201-542-5151
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
Leasametric Inc Foster City CA	415-574-4441
Master Electronic Controls Los Angeles CA	213-452-1336
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953
North American Soar Corp Cherry Hill NJ	609-488-1060
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Park Electronics Co Inc Irvine CA	714-660-8014
Peco Controls Corp Milpitas CA	408-262-4050
Philips Test & Measuring Instruments Inc	
Mahwah NJ	201-529-3800
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Redington Counters Inc Windsor CT	203-688-6205
Red Lion Controls York PA	717-767-6511
Richard Lee Co New Providence NJ	201-276-0710
Soltec Corp Sun Valley CA	818-767-0044
SPC Technology Bensenville IL	312-766-6711
Tucker Electronics Co Garland TX	214-348-8800
Veeder-Root Hartford CT	203-527-7201

COUNTERS (INSTRUMENTS)—BINARY (EXCEPT NUCLEAR)

NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
Anasco Corp Wakefield MA	617-246-3300
Bowmar Instrument Corp Ft Wayne Div	
Ft Wayne IN	219-747-3121
Cincinnati ElectroSystems Inc Loveland OH	513-831-4347
Codar Technology Inc Longmont CO	303-776-0472
C-Tek Inc Wakefield MA	617-246-1720
Datatron Labs Inc Sussex NJ	914-856-4313
De-Tec-Tronic Corp Elgin IL	312-695-9150
Durant Products-Eaton Corp Watertown WI	414-261-4070
E N M Co Chicago IL	312-794-6150
ITT Barton Instruments Co	
City of Industry CA	818-961-2547
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
Kinetic Systems Corp Lockport IL	815-838-0005
Master Electronic Controls Los Angeles CA	213-452-1336
Newport Electronics Inc Santa Ana CA	714-540-4914
Philips Test & Measuring Instruments Inc	
Mahwah NJ	201-529-3800
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Richard Lee Co New Providence NJ	201-276-0710
SAS Systems Inc Norcross GA	404-448-4190
Veeder-Root Hartford CT	203-527-7201

COUNTERS (INSTRUMENTS)—DECADE (EXCEPT NUCLEAR)

COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
DCI INC OLATHE KS	913-782-5672
ENVIROMARINE SYSTEMS INC	
LAUREL MD	301-598-8833
ITEK MEASUREMENT SYSTEMS DIV LITTON	
INDUSTRIES NEWTON MA	617-969-7300
ADV PG 175	
NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
Abrams Instrument Corp Lansing MI	517-332-6405
A C D Corp Dayton OH	513-222-2600
Anadex Inc Camarillo CA	805-987-9660
Avtron Mfg Inc Cleveland OH	216-641-8310
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Calibron Instruments Div Burton-Rogers Co	
Walham MA	617-894-6440
Computer Conversions Corp	
East Northport NY	516-261-3300

Continental Resources Inc Bedford MA	617-275-0850
Crouzet Controls Inc Schaumburg IL	312-843-2200
C-Tek Inc Wakefield MA	617-246-1720
Datatron Labs Inc Sussex NJ	914-856-4313
DCI Inc Olathe KS	913-782-5672
De-Tec-Tronic Corp Elgin IL	312-695-9150
DigiTec Dayton OH	513-254-6251
Durant Products-Eaton Corp Watertown WI	414-261-4070
Durgin & Browne Inc S Burlington VT	802-863-6873
Dynapac Corp Gurnee IL	312-662-2666
Electronic Counters & Controls Inc	
Mundelein IL	312-362-8910
E N M Co Chicago IL	312-794-6150
Enviromarine Systems Inc Laurel MD	301-598-8833
FCP Inc/Frequency Cont Prods Woodside NY	718-548-5811
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Global Specialties Corp New Haven CT	203-624-3103
Harrel Inc East Norwalk CT	203-866-2573
Hewlett-Packard Palo Alto CA	415-857-8000
Hoffer Flow Controls Port Monmouth NJ	201-787-1997
Hyde Park Electronics Inc Dayton OH	513-435-2121
International Microtronics Corp Tucson AZ	602-748-7900
Itek Measurement Systems Div Litton Industries	
Newton MA	617-969-7300
Kaybar Corp Little Ferry NJ	201-440-3848
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
Master Electronic Controls Los Angeles CA	213-452-1336
Newport Electronics Inc Santa Ana CA	714-540-4914
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953
Omron Electronics Inc Schaumburg IL	312-843-7900
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Red Lion Controls York PA	717-767-6511
Richard Lee Co New Providence NJ	201-276-0710
SAS Systems Inc Norcross GA	404-448-4190
Square D Co Palatine IL	312-397-2600
Triplet Corp/A Penril Div Bluffton OH	419-358-5015
Trumeter Co Inc New York NY	212-564-0666
Tucker Electronics Co Garland TX	214-348-8800
Veeder-Root Hartford CT	203-527-7201
Waugh Controls Corp Chatsworth CA	818-998-8281

COUNTERS (INSTRUMENTS)—EVENT (EXCEPT NUCLEAR)

DCI INC OLATHE KS	913-782-5672
ELECTRO NUMERICS INC IRVINE CA	714-250-1501
NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
TEXMATE INC SOLANA BEACH CA	619-481-7177
ADV PGS 268,269	
Abrams Instrument Corp Lansing MI	517-332-6405
A C D Corp Dayton OH	513-222-2600
Advanced Peripherals Inc Cleveland OH	216-721-6665
Airpax Corp Cheshire Div Cheshire CT	203-272-0301
Airpax Corp Ft Lauderdale FL	
Ft Lauderdale FL	305-587-1100
Anadex Inc Camarillo CA	805-987-9660
Anasco Corp Wakefield MA	617-246-3300
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Bowmar Instrument Corp Ft Wayne Div	
Ft Wayne IN	219-747-3121
Buckminster Corp Cambridge MA	617-864-2456
Chrono-Log Corp Havertown PA	215-853-1130
Codar Technology Inc Longmont CO	303-776-0472
Colorado Data Systems Inc Englewood CO	800-237-2831
Columbus Instruments Intl Corp	
Columbus OH	614-488-6176
Continental Resources Inc Bedford MA	617-275-0850
C-Tek Inc Wakefield MA	617-246-1720
Datatron Labs Inc Sussex NJ	914-856-4313
DCI Inc Olathe KS	913-782-5672
De-Tec-Tronic Corp Elgin IL	312-695-9150
DigiTec Dayton OH	513-254-6251
Dranelec Technologies Inc Edison NJ	201-287-3680
Durant Products-Eaton Corp Watertown WI	414-261-4070
Durgin & Browne Inc S Burlington VT	802-863-6873
Dynapac Corp Gurnee IL	312-662-2666
Eitel Mfg Inc Laguna Beach CA	714-494-2012
Electrodynamics Inc A Talley Indus Co	
Rolling Meadows IL	312-259-0740
Electromatic Controls Corp	
Hoffman Estates IL	312-882-5757
Electronic Counters & Controls Inc	
Mundelein IL	312-362-8910
Electronic Resources Div Whitaker Corp	
Burbank CA	818-843-5770
Electro Numerics Inc Irvine CA	714-250-1501
E N M Co Chicago IL	312-794-6150
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Global Specialties Corp New Haven CT	203-624-3103
Harrel Inc East Norwalk CT	203-866-2573
Haydon Switch & Instrument Inc	
Waterbury CT	203-756-7441
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Hyde Park Electronics Inc Dayton OH	513-435-2121
International Microtronics Corp Tucson AZ	602-748-7900
IVO Industries Inc Eatontown NJ	201-542-5151
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
Kinetic Systems Corp Lockport IL	815-838-0005
Master Electronic Controls Los Angeles CA	213-452-1336
NES Inc Carpentersville IL	312-426-5900
Newport Electronics Inc Santa Ana CA	714-540-4914
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953
North American Soar Corp Cherry Hill NJ	609-488-1060
Omron Electronics Inc Schaumburg IL	312-843-7900
Pacer Industries Inc Chippewa Falls WI	715-723-1141
PCI Inc Santa Clara CA	408-980-0591

Peco Controls Corp Milpitas CA	408-262-4050
Philips Test & Measuring Instruments Inc	
Mahwah NJ	201-529-3800
Photobell Co Inc Fairfield NJ	201-227-3613
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
PPM Inc Cleveland OH	216-292-6006
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Redington Counters Inc Windsor CT	203-688-6205
Red Lion Controls York PA	717-767-6511
Richard Lee Co New Providence NJ	201-276-0710
SAS Systems Inc Norcross GA	404-448-4190
Scanning Devices Inc Waltham MA	617-891-8991
Sequential Information Systems Inc	
Elmsford NY	914-592-5930
Simpson Electric Co Elgin IL	312-697-2260
Solid Controls Inc Minneapolis MN	612-941-6110
Soltec Corp Sun Valley CA	818-767-0044
Square D Co Palatine IL	312-397-2600
Tektronix Inc Beaverton OR	800-547-6711
Texmate Inc Solana Beach CA	619-481-7177
Triplett Corp/A Penril Div Bluffton OH	419-358-5015
Trumeter Co Inc New York NY	212-564-0666
Tucker Electronics Co Garland TX	214-348-8800
Veeder-Root Hartford CT	203-527-7201
Velonex Santa Clara CA	408-727-7370
Waugh Controls Corp Chatsworth CA	818-998-8281

COUNTERS

(INSTRUMENTS)—FREQUENCY, A-F RANGE ONLY

DCI INC OLATHE KS	913-782-5672
ELECTRO NUMERICS INC IRVINE CA	714-250-1501
TEXMATE INC SOLANA BEACH CA	619-481-7177
ADV PGS 268,269	
Advanced Peripherals Inc Cleveland OH	216-721-6665
Anadex Inc Camarillo CA	805-987-9660
Audio Precision Inc Beaverton OR	503-297-4837
Ballantine Laboratories Inc Bounton NJ	201-335-0900
Bowmar Instrument Corp Ft Wayne Div	
Ft Wayne IN	219-747-3121
Colorado Data Systems Inc Englewood CO	800-237-2831
C-Tek Inc Wakefield MA	617-246-1720
DCI Inc Olathe KS	913-782-5672
DigiTec Dayton OH	513-254-6251
Dranetz Technologies Inc Edison NJ	201-287-3680
Dynapar Corp Gurnee IL	312-662-2666
Electronic Counters & Controls Inc	
Mundelein IL	312-362-8910
Electro Numerics Inc Irvine CA	714-250-1501
FPC Inc/Frequency Cont Prods Woodside NY	718-458-5811
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Global Specialties Corp New Haven CT	203-624-3103
Hewlett-Packard Palo Alto CA	415-857-8000
International Microtronics Corp Tucson AZ	602-748-7900
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
Leasametric Inc Foster City CA	415-574-4441
NES Inc Carpentersville IL	312-426-5900
Philips Test & Measuring Instruments Inc	
Mahwah NJ	201-529-3800
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Richard Lee Co New Providence NJ	201-276-0710
SAS Systems Inc Norcross GA	404-448-4190
Simpson Electric Co Elgin IL	312-697-2260
Struthers-Dunn Inc Pitman NJ	609-589-7500
Tektronix Inc Beaverton OR	800-547-6711
Texmate Inc Solana Beach CA	619-481-7177
Triplett Corp/A Penril Div Bluffton OH	419-358-5015
Tucker Electronics Co Garland TX	214-348-8800
Valhalla Scientific Inc San Diego CA	619-457-5576

COUNTERS

(INSTRUMENTS)—FREQUENCY RF (EXCEPT MICROWAVE)

NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
TEXMATE INC SOLANA BEACH CA	619-481-7177
ADV PGS 268,269	
Anasco Corp Wakefield MA	617-246-3300
Anritsu America Inc Oakland NJ	201-337-1111
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Ballantine Laboratories Inc Bounton NJ	201-335-0900
B & K Precision Products Dynascan Corp	
Chicago IL	312-889-9087
Bowmar Instrument Corp Ft Wayne Div	
Ft Wayne IN	219-747-3121
Computer Measurements Co Chatsworth CA	818-341-0800
Continental Resources Inc Bedford MA	617-275-0850
Cushman Electronics Inc San Jose CA	408-263-8100
E I L Instruments Inc Sparks MD	301-771-4800
FPC Inc/Frequency Cont Prods Woodside NY	718-458-5811
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Global Specialties Corp New Haven CT	203-624-3103
Hameg Inc Port Washington NY	516-883-3837
Handy Products/RSP Elec Branford CT	203-688-6603
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Leader Instruments Corp Hauppauge NY	516-231-6900
Leasametric Inc Foster City CA	415-574-4441
Newport Electronics Inc Santa Ana CA	714-540-4914
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953
North American Soar Corp Cherry Hill NJ	609-488-1060
Pacer Industries Inc Chippewa Falls WI	715-723-1141

Philips Test & Measuring Instruments Inc	
Mahwah NJ	201-529-3800
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Sencore Inc Sioux Falls SD	605-339-0100
Sigmotek International Corp	
Walnut Creek CA	415-943-7411
Simpson Electric Co Elgin IL	312-697-2260
Tektronix Inc Beaverton OR	800-547-6711
Texmate Inc Solana Beach CA	619-481-7177
Triplett Corp/A Penril Div Bluffton OH	419-358-5015
Tucker Electronics Co Garland TX	214-348-8800
Viz Test Equip Div Viz Mfg Co	
Philadelphia PA	215-844-2626

COUNTERS

(INSTRUMENTS)—MICROWAVE

Advantest Corp Tokyo Japan	03-342-7500
Alpha Industries Inc Woburn MA	617-935-5150
Anritsu America Inc Oakland NJ	201-337-1111
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Continental Resources Inc Bedford MA	617-275-0850
Digimax Instruments Corp San Diego CA	619-578-7171
EIP Microwave Inc San Jose CA	408-946-5700
Hewlett-Packard Palo Alto CA	415-857-8000
Kaybar Corp Little Ferry NJ	201-440-3848
LogiMetrics Inc Plainville NJ	516-349-1700
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Tucker Electronics Co Garland TX	214-348-8800

COUNTERS

(INSTRUMENTS)—NUCLEAR

Baird Corp Bedford MA	617-276-6000
Canberra Industries Inc Meriden CT	203-238-2351
Collins & Assoc Don L Glendale CA	213-245-2711
EG & G Ortec Oak Ridge TN	615-482-4411
Galileo Electro-Optics Corp Sturbridge MA	617-347-9191
ITT Barton Instruments Co	
City of Industry CA	818-961-2547
Keithley Instruments Inc Cleveland OH	216-248-0400
Kinetic Systems Corp Lockport IL	815-838-0005
LeCroy Corp Spring Valley NY	914-425-2000
Ludlum Measurements Inc Sweetwater TX	915-235-5494
Nuclear Enterprises Ltd Beemham Reading	0734-712121
Reuter-Stokes Inc Twinsburg OH	216-425-3755
The Nucleus Inc Oak Ridge TN	615-483-0008
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
Victorene Inc Cleveland OH	216-795-8200
Westinghouse Elec Corp Ind & Govt Tube Div	
Horseheads NY	607-796-3211
Wood N Counter Laboratory Inc Chicago IL	312-324-1114

COUNTERS (INSTRUMENTS)—PULSE & FREQUENCY (COUNTS BOTH)

CANYON ELECTRONICS INC PHOENIX AZ	602-944-4421
DCI INC OLATHE KS	913-782-5672
NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
Advanced Peripherals Inc Cleveland OH	216-721-6665
Advantest Corp Tokyo Japan	03-342-7500
Alpax Corp Ft Lauderdale Div	
Ft Lauderdale FL	305-587-1100
Anadex Inc Camarillo CA	805-987-9660
Anasco Corp Wakefield MA	617-246-3300
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Avtron Mfg Inc Cleveland OH	216-641-8310
Axonix Corp Burlington MA	617-273-5550
Ballantine Laboratories Inc Bounton NJ	201-335-0900
Bowmar Instrument Corp Ft Wayne Div	
Ft Wayne IN	219-747-3121
Buckminster Corp Cambridge MA	617-864-2456
Canyon Electronics Inc Phoenix AZ	602-944-4421
Colorado Data Systems Inc Englewood CO	800-237-2831
C-Tek Inc Wakefield MA	617-246-1720
Datatron Labs Inc Sussex NJ	914-856-4313
DCI Inc Olathe KS	913-782-5672
De-Tec-Tronic Corp Elgin IL	312-695-9150
Durant Products-Eaton Corp Watertown WI	414-261-4070
Dynapar Corp Gurnee IL	312-662-2666
EG & G Ortec Oak Ridge TN	615-482-4411
EIP Microwave Inc San Jose CA	408-946-5700
Elit Mfg Inc Laguna Beach CA	714-494-2012
Electronic Counters & Controls Inc	
Mundelein IL	312-362-8910
Electronics Warehouse Inc Old Lyme CT	203-434-9838
E N M Co Chicago IL	312-794-6150
FPC Inc/Frequency Cont Prods Woodside NY	718-458-5811
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Global Specialties Corp New Haven CT	203-624-3103
Hameg Inc Port Washington NY	516-883-3837
Handy Products/RSP Elec Branford CT	203-688-6603
Hewlett-Packard Palo Alto CA	415-857-8000
Hyde Park Electronics Inc Dayton OH	513-435-2121
IVO Industries Inc Eatontown NJ	602-748-7900
Keithley Instruments Inc Cleveland OH	216-248-0151
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
Kinetic Systems Corp Lockport IL	815-838-0005
LeCroy Corp Spring Valley NY	914-425-2000
Newport Electronics Inc Santa Ana CA	714-540-4914
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953

North American Soar Corp Cherry Hill NJ	609-488-1060
Orron Electronics Inc Schaumburg IL	312-843-7991
Optoelectronics Inc Ft Lauderdale FL	305-771-2020
Philips Test & Measuring Instruments Inc	
Mahwah NJ	201-529-3800
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Redington Counters Inc Windsor CT	203-688-6205
Richard Lee Co New Providence NJ	201-276-0710
RIL Electronics Inc Warrington PA	215-343-5015
SAS Systems Inc Norcross GA	404-448-4190
Sensor Corp Scottsdale PA	412-887-4000
Sequential Information Systems Inc	
Elmsford NY	914-592-5930
Soltec Corp Sun Valley CA	818-767-0044
Systems Research Labs Inc Dayton OH	513-426-0666
Tektronix Inc Beaverton OR	800-547-6711
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
Triplett Corp/A Penril Div Bluffton OH	419-358-5015
Tucker Electronics Co Garland TX	214-348-8800
Veeder-Root Hartford CT	203-527-7201
Waugh Controls Corp Chatsworth CA	818-998-8281

COUNTERS (INSTRUMENTS)—PULSE & CHARACTERISTICS ANALYZING

See Analyzers—Pulse Characteristics

COUNTERS (INSTRUMENTS)—PULSE (EXCEPT EVENT & NUCLEAR)

DCI INC OLATHE KS	913-782-5672
ELECTRO NUMERICS INC IRVINE CA	714-250-1501
Abrams Instrument Corp Lansing MI	517-332-6400
Advanced Peripherals Inc Cleveland OH	216-721-6665
Amerace Corp Hackettstown NJ	201-852-1131
Anasco Corp Wakefield MA	617-246-3300
Automatic Timing & Controls Co	
King of Prussia PA	800-441-8241
Avtron Mfg Inc Cleveland OH	216-641-8310
Bowmar Instrument Corp Ft Wayne Div	
Ft Wayne IN	219-747-3121
Buckminster Corp Cambridge MA	617-864-2456
Calibron Instruments Div Burton-Rogers Co	
Waltham MA	617-894-8400
C-Tek Inc Wakefield MA	617-246-1720
Datatron Labs Inc Sussex NJ	914-856-4313
DCI Inc Olathe KS	913-782-5672
Durgin & Browne Inc S Burlington VT	802-863-6887
Dynapar Corp Gurnee IL	312-662-2666
Eagle Signal Controls Div Wickes Mfg Co	
Austin TX	512-837-8788
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8300
Electronic Counters & Controls Inc	
Mundelein IL	312-362-8910
Electro Numerics Inc Irvine CA	714-250-1501
ESE II Segundo CA	213-322-2121
Global Specialties Corp New Haven CT	203-624-3103
Harrel Inc East Norwalk CT	203-866-2571
Haydon Switch & Instrument Inc	
Waterbury CT	203-756-7400
Hewlett-Packard Palo Alto CA	415-857-8000
Hoffer Flow Controls Port Monmouth NJ	201-787-1950
Hyde Park Electronics Inc Dayton OH	513-435-2121
Instrument Research Co Santa Barbara CA	805-962-8313
International Microtronics Corp Tucson AZ	602-748-7900
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
Kinetic Systems Corp Lockport IL	815-838-0005
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953
Orron Electronics Inc Schaumburg IL	312-843-7991
Peco Controls Corp Milpitas CA	408-262-4050
Philips Test & Measuring Instruments Inc	
Mahwah NJ	201-529-3800
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Redington Counters Inc Windsor CT	203-688-6205
Red Lion Controls York PA	717-767-6511
RIL Electronics Inc Warrington PA	215-343-5015
SAS Systems Inc Norcross GA	404-448-4190
Scanning Devices Inc Waltham MA	617-891-8991
Solid Controls Inc Minneapolis MN	612-941-6110
Soltec Corp Sun Valley CA	818-767-0044
Struthers-Dunn Inc Pitman NJ	609-589-7500
Systems Research Labs Inc Dayton OH	513-426-0666
Trumeter Co Inc New York NY	212-564-0666
Veeder-Root Hartford CT	203-527-7201
Velonex Santa Clara CA	408-727-7370
Waugh Controls Corp Chatsworth CA	818-998-8281

COUNTERS—LOGIC CIRCUITS

See ICs Listings; Modules

COUNTERS—MECHANICAL

ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1311
ADV PGS 434,435	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Abrams Instrument Corp Lansing MI	517-332-6400
Aeromag Inc Wixom MI	313-624-1541
Alpax Corp Cheshire Div Cheshire CT	203-272-3030
Automatic Timing & Controls Co	
King of Prussia PA	800-441-8241
Barker & Williamson Bristol PA	215-788-5558
Berg Inc Winfred M East Rockaway NY	516-599-5010
Bowmar Instrument Corp Ft Wayne Div	
Ft Wayne IN	219-747-3121
Crouzet Controls Inc Schaumburg IL	312-843-2200

3-Tec-Tronic Corp Elgin IL	312-695-9150
Arant Products-Eaton Corp Watertown WI	414-261-4070
Signal Controls Div Wickes Mfg Co Austin TX	512-837-8300
Electronic Switches Inc Los Angeles CA	213-660-1310
Electronic Tachometer Corp Philadelphia PA	215-726-7723
Electrodynamics Inc A Talley Indus Co Rolling Meadows IL	312-259-0740
Electronic Resources Div Whitaker Corp Burbank CA	818-843-5770
N M Co Chicago IL	312-794-6150
Industrial Timer Co Haydon Switch Inst Inc Waterbury CT	203-753-2487
T Barton Instruments Co City of Industry CA	818-961-2547
O Industries Inc Eatontown NJ	201-542-5151
aybar Corp Little Ferry NJ	201-440-3848
esser-Ellis Products Co Atlantic Highlands NJ	201-291-0500
alwin Electronics Corp Paterson NJ	201-881-1500
aster Electronic Controls Los Angeles CA	213-452-1336
co Controls Corp Milpitas CA	408-262-4050
C Design Middlebury CT	203-758-8272
oneer Instrumentation Div Pioneer Std Cleveland OH	216-587-3600
edington Counters Inc Windsor CT	203-688-6205
okal Far East Ltd Hartsdale NY	914-681-0700
mpson Electric Co Elgin IL	312-697-2260
TC Technology Bensenville IL	312-766-6711
erling Instrument Div Designtronics Inc New Hyde Park NY	516-328-3300
reter Richardson Div Grayslake IL	312-223-4801
umeter Co Inc New York NY	212-564-0666
ader-Root Hartford CT	203-527-7201

COUNTERS—PHOTOELECTRIC (CONTROL TYPE)

LECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434,435	
AGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
nasco Corp Wakefield MA	617-246-3300
-Systems Inc Charlottesville VA	804-295-7200
utomated Production Concepts Inc Pompton Plains NJ	201-831-8300
utomatic Timing & Controls Co King of Prussia PA	800-441-8245
utotom Inc Danville IL	217-446-0650
utronics Corp Arcadia CA	818-445-5470
anner Engineering Corp Minneapolis MN	612-544-3164
& B Motor & Control Corp Burlington CT	718-784-1313
rouzet Controls Inc Schaumburg IL	312-843-2200
-tek Inc Wakefield MA	617-246-1720
3-Tec-Tronic Corp Elgin IL	312-695-9150
urant Products-Eaton Corp Watertown WI	414-261-4070
unapar Corp Gurnee IL	312-662-2666
lectric Switches Inc Los Angeles CA	213-660-1310
lectromatic Controls Corp Hoffman Estates IL	312-882-5757
lectronic Resources Div Whitaker Corp Burbank CA	818-843-5770
ngineering Design Denver CO	303-427-1955
rl/Fork Standards Inc Lombard IL	312-932-9380
airl Inc East Norwalk CT	312-862-2573
H Controls Co Inc Arlington MA	617-646-2626
ude Park Electronics Inc Dayton OH	513-435-2121
novation Industries Inc Russellville AR	501-968-2232
nternational Microtronics Corp Tucson AZ	602-748-7900
O Industries Inc Eatontown NJ	201-542-5151
esser-Ellis Products Co Atlantic Highlands NJ	201-291-0500
enry Mann Inc Huntingdon Valley PA	215-355-7200
aster Electronic Controls Los Angeles CA	213-452-1336
imron Electronics Inc Schaumburg IL	312-843-7900
eko Electronics Co Inc Irvine CA	714-660-8014
co Controls Corp Milpitas CA	408-262-4050
hotobell Co Inc Fairfield NJ	201-227-3613
hotomation Inc Mountain View CA	415-967-8992
ioneer Instrumentation Div Pioneer Std Cleveland OH	216-587-3600
edington Counters Inc Windsor CT	203-688-6205
ager Hingham MA	617-749-6700
canning Devices Inc Waltham MA	617-891-8991
imco/Ramic Corp Medford OR	503-776-9800
ikan-A-Matic Corp Elbridge NY	315-689-3961
horn EMI Gencom Inc Fairfield NJ	201-575-5586
rumeter Co Inc New York NY	212-564-0666
eder-Root Hartford CT	203-527-7201
Varner Electric Brake & Clutch Co South Beloit IL	815-389-3771
ercon Inc Portland OR	503-641-9525

COUNTERS—PHOTON & SCINTILLATION

aird Corp Bedford MA	617-276-6000
ollins & Assoc Don L Glendale CA	213-245-2711
Computer System Assoc Inc San Diego CA	619-566-3911
3-Tec-Tronic Corp Elgin IL	312-695-9150
G & G Ortec Oak Ridge TN	615-482-4411
illieo Electro-Optics Corp Sturbridge MA	617-347-9191
ethley Instruments Inc Cleveland OH	216-248-0400
eCroy Corp Spring Valley NY	914-425-2000
nuclear Enterprises Ltd Beenhaim Reading	0734-712121
acific Instruments Inc Concord CA	415-827-9010
Products for Research Inc Danvers MA	617-774-3250
ed Lion Controls York PA	717-767-6511
RL Electronics Inc Warrington PA	215-343-5075
he Nucleus Inc Oak Ridge TN	615-483-0008
horn EMI Gencom Inc Fairfield NJ	201-575-5586
Victoreen Inc Cleveland OH	216-795-8200

COUNTING CONTROLS

See Controls—Counting & Sorting; Controls, Photoelectric—Counting & Sorting

COUPLERS—ANTENNA

See Antenna Couplers; Diplexers; Duplexers; Microwave Duplexers

COUPLERS, DIRECTIONAL—COAXIAL

SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Adams-Russell Co Inc Anzac Div Burlington MA	617-273-3333
Aiken Advanced Sys Div Amstar Tech Prods Inc Alexandria VA	703-370-0900
Airtron Div Litton Systems Inc Morris Plains NJ	201-539-5500
American Nucleonics Corp Westlake Vlg CA	805-486-2405
Amplifier Research Corp Souderton PA	215-725-8181
Anaren Microwave Inc E Syracuse NY	315-432-8909
Arra Inc Bay Shore NY	516-231-8400
Astrolab Inc Warren NJ	201-560-3800
Coil-Q Corp Bronxville NY	914-337-4775
Coleman Microwave Co Edinburg VA	703-984-8848
Connecticut Microwave Corp Canton CT	203-693-4247
Delta Microwave Inc Camarillo CA	805-987-6892
Diamond Antenna & Microwave Corp Winchester MA	617-729-5500
Dielectric Commun Unit General Signal Raymond ME	207-655-4555
Dynatech UZ Inc Venice CA	213-392-9821
Ferrite Control Co Div Micon Inc Brick NJ	201-458-3333
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Harris Corp Govt Support Sys Div Syosset NY	516-364-0400
Hewlett-Packard Palo Alto CA	415-857-8000
Hirose Electric USA Inc Chatsworth CA	818-709-1247
KDI Electronics Inc Whippary NJ	201-887-8100
LaPointe Industries Inc Rockville CT	203-872-8581
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A COM Omni Spectra Inc Merrimack NH	603-424-4111
Maury Microwave Corp Cucamonga CA	714-987-4715
Meca Electronics Inc Denville NJ	201-625-0661
Merrimack Industries Inc West Caldwell NJ	201-575-1300
Microwave Engineering Corp North Andover MA	617-685-2776
Mini-Circuits Lab Brooklyn NY	718-934-4500
The Narda Microwave Corp Hauppauge NY	516-231-1700
North Hills Electronics Inc Glen Cove NY	516-671-5700
Olektron Corp Webster MA	617-943-7440
Omega Industries Inc Newport Beach CA	714-642-8313
Omega Laboratories Inc Rowley MA	617-948-7757
Philips Electronic Comps & Matis Div Eindhoven Netherlands	0407911111
Premier Microwave Corp Port Chester NY	914-939-8900
RHG Electronics Lab Inc Deer Park NY	516-242-1100
RLC Electronics Inc Mt Kisco NY	914-241-1334
Sage Laboratories Inc Natick MA	617-653-0844
Sanders Associates Inc Nashua NH	603-885-4321
Sealectro Corp Trumbull CT	203-372-4118
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Soliton Microwave Connector Div Port Salerno FL	305-287-5000
Struthers Electronics Corp Farmingdale NY	516-420-9000
Technical Research & Mfg Inc Manchester NH	603-668-0210
Tranco Products Inc Camarillo CA	805-987-2201
Triangle Microwave Inc East Hanover NJ	201-884-1423
Victor Microwave Inc Wakefield MA	617-245-4472
Waveline Inc West Caldwell NJ	201-226-9100
Western Microwave Sunnyvale CA	408-734-1631
Wide Band Engineering Co Inc Phoenix AZ	602-254-1570
Wiltron Co Morgan Hill CA	408-778-2000
Wincom Corp Woburn MA	617-935-6212

COUPLERS, DIRECTIONAL—WAVEGUIDE

ALUMINUM DESIGN CORP BROOKFIELD IL	312-387-3100
GENERAL INSTRUMENT/OPTOELECTRONICS DIV PALO ALTO CA	415-493-0400
Airtron Div Litton Systems Inc Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
Aluminum Design Corp Brookfield IL	312-387-3100
Arra Inc Bay Shore NY	516-231-8400
Astrolab Inc Warren NJ	201-560-3800
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Coleman Microwave Co Edinburg VA	703-984-8848
Connecticut Microwave Corp Canton CT	203-693-4247
Diamond Antenna & Microwave Corp Winchester MA	617-729-5500
Dielectric Commun Unit General Signal Raymond ME	207-655-4555
Eastern Microwave Corp Woburn MA	617-935-8600
Gamma-F Corp Torrance CA	213-539-8704
General Instrument/Optoelectronics Div Palo Alto CA	415-493-0400
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Harris Corp Govt Support Sys Div Syosset NY	516-364-0400
Hewlett-Packard Palo Alto CA	415-857-8000
Hirose Electric USA Inc Chatsworth CA	818-709-1247
Hughes Aircraft Co Microwave Prods Div Torrance CA	213-517-6400
Lorch Electronics Corp Englewood NJ	201-569-8282

M/A-COM Microwave Components Inc Burlington MA	617-272-3000
Maury Microwave Corp Cucamonga CA	714-987-4715
Meca Electronics Inc Denville NJ	201-625-0661
Microwave Development Labs Inc Natick MA	617-655-0060
Microwave Engineering Corp North Andover MA	617-685-2776
The Narda Microwave Corp Hauppauge NY	516-231-1700
Omega Laboratories Inc Rowley MA	617-948-7757
Philips Electronic Comps & Matis Div Eindhoven Netherlands	0407911111
Premier Microwave Corp Port Chester NY	914-939-8900
Sage Laboratories Inc Natick MA	617-653-0844
Siecor Corp Hickory NC	704-327-5000
Struthers Electronics Corp Farmingdale NY	516-420-9000
Teletunken electronic Heilbronn West Germany	07131 8821
Tranco Products Inc Camarillo CA	805-987-2201
Varian Electron Device Group Palo Alto CA	415-493-4000
Victor Microwave Inc Wakefield MA	617-245-4472
Waveline Inc West Caldwell NJ	201-226-9100
Wincom Corp Woburn MA	617-935-6212

COUPLERS—MULTICOUPLER

See Multicouplers

COUPLERS—OPTOELECTRONIC ISOLATOR TYPE

See Optoelectronic Isolators

COUPLINGS

See Shaft Couplings; Pipe Couplings; Rotary Joints; Waveguide

COUPLINGS—MECHANICAL

See Pipe Couplings; Shaft Couplings

CRAYONS—TEMPERATURE INDICATING

See Temperature Indicating Crayons

CROSSOVER NETWORKS

See Networks—Crossover

CRUCIBLES

See Boats & Crucibles

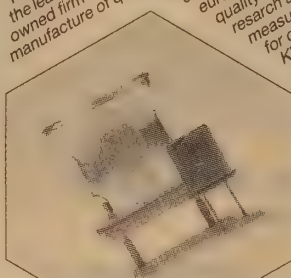
CRYOGENIC EQUIPMENT

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Creare Inc Hanover NH	603-643-3800
Cryolab Inc San Luis Obispo CA	805-541-2796
CTI Cryogenics Div Helix Tech Corp Waltham MA	617-890-9400
EEMCO Div Datron Systems Inc Los Angeles CA	818-247-7060
Forma Scientific Div Mallinckrodt Inc Marietta OH	614-373-4763
Harris Mfg Co Inc Billerica MA	617-667-5116
High Vacuum Equipment Corp Hingham MA	617-749-9000
Hoffer Flow Controls Port Monmouth NJ	201-787-1997
Hughes Aircraft Co Electron Dynamics Div Torrance CA	213-517-6000
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CRYSTAL MANUFACTURING MACHINES SEE MACHINES

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- See Chemicals—Liquid Crystal
- Crystals—Piezoelectric
- Garnet
- Optical Crystals (except Quartz)
- Quartz
- Sapphire
- Scintillators
- Semiconductors
- Titanates

CRYSTALS—PARTS

- See Crystal Blanks
- Crystal Units
- Diode Holders
- Diodes
- Filters
- Infrared Optical Components
- Jewels
- Laser Crystals
- Microwave Mounts
- Optical Listings
- Oscillators
- Package Parts
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- Quartz Parts
- Sockets
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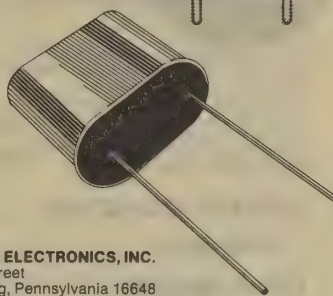
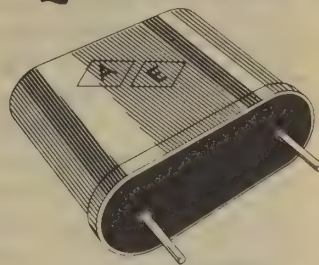
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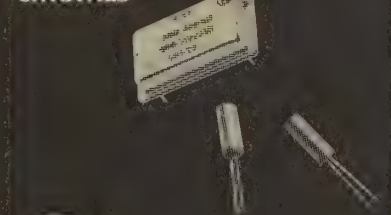
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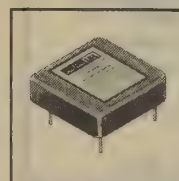


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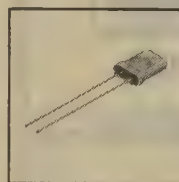
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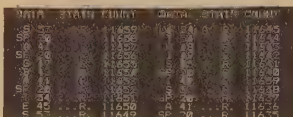
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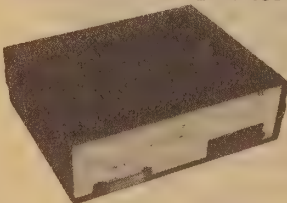
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Creare Inc Hanover NH.....	603-643-38
Creative Micro Systems Los Alamitos CA.....	213-493-24
Crydom Div Intl Rectifier Corp El Segundo CA.....	213-322-49
Cybernetic Micro Systems Inc	
San Gregorio CA.....	415-726-30
Cybersystems Inc Huntsville AL.....	205-883-44
Datacom Inc Fort Walton Beach FL.....	904-244-61
Dataq Instruments Inc Akron OH.....	216-434-42
Data Translation Inc Marlboro MA.....	617-481-37
Datatest Corp Scottsdale AZ.....	602-948-32
Datel Div General Electric Co Mansfield MA.....	617-339-93
Daytronic Corp Miamisburg OH.....	513-866-33
Digital Dynamics Inc Scotts Valley CA.....	408-438-68
Digital Equipment Corp Maynard MA.....	617-897-51
Digital Dayton OH.....	513-254-62
Digitech Industries Inc Ridgely CT.....	203-438-37
Doric Scientific Div Emerson Elec Co	
San Diego CA.....	619-565-4
Dowdy RFL Industries Inc Commu	
Boonton NJ.....	201-334-31
Dynapac Corp Gurnee IL.....	312-662-28
Dynatech Packet Tech Alexandria VA.....	703-642-93
ECO Instruments Div Sea Data Corp	
Newton MA.....	617-964-83
Elec Corp Lynnwood WA.....	206-743-13
Electronic Tachometer Corp Philadelphia PA.....	215-726-77
Electronic Controls Design Inc Mulino OR.....	503-829-91
Elcor Associates Morris Plains NJ.....	201-299-16
Ertect Engineering Inc Boulder CO.....	303-447-87
Fairchild Weston Systems Inc Sarasota FL.....	813-371-08
Fischer & Porter Co Warminster PA.....	215-674-60
Fiske Mfg Co Inc John Everett WA.....	206-356-54
Forma Scientific Div Mallinckrodt Inc	
Marietta OH.....	614-373-47
Foundation Instruments Inc Napen ON.....	613-226-40
The Foxboro Co Foxboro MA.....	617-543-87
FX Systems Corp Kingston NY.....	914-338-05
General Digital Industries Inc Huntsville AL.....	205-837-83
Gould Inc Design & Test Sys Div	
Santa Clara CA.....	408-988-68
Gould Inc Recording Systems Div	
Cleveland OH.....	216-361-31
GPE Controls A Brunswick Co	
Morton Grove IL.....	312-966-40
GSE Inc Farmington Hills MI.....	313-476-78
Harrel Inc East Norwalk CT.....	203-866-25
Hathaway Corp Denver CO.....	303-756-30
Henschel Corp Newburyport MA.....	617-482-24
Hewlett-Packard Palo Alto CA.....	415-857-80
Himmelstein & Co S Hoffman Estates IL.....	312-843-33
Honeycomb Systems Inc Bideford ME.....	207-282-15
Honeywell Test Instruments Div Denver CO.....	303-773-47
Hottinger Baldwin Measurements Inc	
Framingham MA.....	617-875-82
Howell Instruments Inc Fort Worth TX.....	817-336-74
ICS Electronics Corp San Jose CA.....	408-263-48
Idec Izumi Corp Osaka Japan.....	81-6-200553
Inconix Corp Norwell MA.....	617-655-17
Industrial Computer Designs Inc	
Westlake Village CA.....	818-889-31
Industrial Micro-Systems Inc Southington CT.....	203-628-48
Information Transfer Industrial Inc	
Holcomb NY.....	716-657-70
Innovative Electronics Inc Miami FL.....	305-624-16
Intech Inc Microcircuits Div Santa Clara CA.....	408-988-49
Intelligent Controls Inc Saco ME.....	207-283-01
Interface Technology St Louis MO.....	314-426-68
Interstate Electronics Corp Anaheim CA.....	714-758-05
IRD Mechanalysis Inc Columbus OH.....	614-885-53
Iwatsu Instruments Inc Carlstadt NJ.....	201-935-52
Kaye Instruments Inc Bedford MA.....	617-275-03
Kethley Instruments Inc Cleveland OH.....	216-248-00
Kinetic Systems Corp Lockport IL.....	815-838-00
Landis & Gyr Systems San Jose CA.....	408-297-99
Lear Siegler Inc Instrument Div	
Grand Rapids MI.....	616-241-70
Leasametric Inc Foster City CA.....	415-574-44
Leeds & Northrup Instruments	
North Wales PA.....	215-643-20
Leupold & Stevens Inc Beaverton OR.....	503-646-91

Insels Inc Princeton Junction NJ	800-RECORDER
Locus Inc State College PA	814-466-6275
SI Avionic Sys Corp Sub Lear Siegler Inc	
Florham Park NJ	201-822-1300
Aerodyne Inc Schenectady NY	518-356-3500
Agnum Opus Custom Electronic Engrg	
Iselin NJ	201-283-4925
Arel Instrument Co Cape Coral FL	813-574-8788
Measurements Group Inc Raleigh NC	919-365-3800
Aerodyne Corp Needham Hts MA	617-444-7000
Aesa Technology Corp Gaithersburg MD	800-638-2039
AetraByte Corp Stoughton MA	617-344-1990
Aetric Systems Corp Fort Walton Beach FL	904-244-9600
Aerosonics Inc Rochester NY	716-334-7300
Alcom Systems Inc Simi Valley CA	805-583-8600
Alcro-Business Concepts Ventura CA	805-653-6660
Alcro Component Technology Inc St Paul MN	612-482-5100
Alcro Networks Co Worcester MA	617-852-5400
Alcroperipheral Corp Redmond WA	206-881-7544
Altron Systems Corp Columbia MD	301-992-7700
Adular Command Systems Inc	
Fountain Valley CA	714-963-8844
Montedoro-Whitney Corp	
San Luis Obispo CA	805-543-1233
Aosley Associates Inc Goleta CA	805-968-9621
ASI Data Corp Costa Mesa CA	714-549-6000
Ieff Instrument Corp Monrovia CA	818-357-2281
IES Inc Carpentersville IL	312-426-5900
Irland Corp Fort Atkinson WI	414-563-8456
Iorthern Precision Labs Inc Fairfield NJ	201-227-4800
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Joptimized Devices Inc Pleasantville NY	914-769-6100
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Jacific Electron Corp Santa Ana CA	714-546-4405
Jeco Controls Corp Milpitas CA	408-262-4050
Jeripheral Dynamics Inc	
Plymouth Meeting PA	215-825-7090
Joenix Data Inc Phoenix AZ	602-278-8528
Jioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
JPM Inc Cleveland OH	216-292-6006
Jreston Scientific Inc Anaheim CA	714-776-6400
Jacal-Dana Instruments Inc Irvine CA	714-859-8999
Jochester Instrument Systems Inc	
Rochester NY	716-263-7700
Jugld Computer Sacramento CA	916-344-5064
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Jchaevitz Engineering Pennsauken NJ	609-662-8000
Jcientific Technology Inc Mtn View CA	415-965-0910
JCI Systems Inc Huntsville AL	205-882-4800
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eaosortek Inc Clifton NJ	201-779-5577
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Amherst NH	603-673-0228
olid State Testing Inc Burlington MA	617-272-0972
onex Corp Philadelphia PA	215-533-4900
parton Technology Inc Rio Rancho NM	505-892-5300
pectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA	619-268-7100
prengnether Instruments Inc St Louis MO	314-535-1682
rawberry Tree Computers Sunnyvale CA	408-736-3083
yscon International Inc South Bend IN	219-232-3900
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ektronix Inc Beaverton OR	800-547-6711
electro Systems Corp Corona NY	212-651-8900
eledyne Geotech Garland TX	214-271-2561
elosis Controls Corp Chillicothe OH	614-642-3200
elox Communications Inc Minneapolis MN	612-884-4051
ransensory Devices Inc Fremont CA	415-490-3333
ustin Electronics Co Santa Ana CA	714-549-0391
FI Morro Bay CA	805-772-1203
inltronix Corp Somerville NJ	201-231-9400
alidyne Engineering Corp Northridge CA	818-886-2057
eder-Root Hartford CT	203-527-7201
ersaLogic Eugene OR	503-485-8575
ehl Instruments Inc Culver City CA	213-641-6931
ebbb Co Jervis B Farmington Hills MI	313-553-1220
est Coast Research Corp Los Angeles CA	213-478-8833
intek Corp Lafayette IN	317-742-8428
ehntel Inc Walnut Creek CA	415-946-0400
i-Tech Instrument Corp Palo Alto CA	415-326-2151

Character Generators

Communications Equipment Reference List

Comparators—Digital

Computer Listings

Controls—Computer Consoles

Controls—Machine Tool, Numerical

Converters Listings

Data Acquisition & Logging Systems

Data Retrieval Systems

Data Synchronizers—Telemetry

Decoders—Digital to Analog

Delay Lines, Digital

Digitizers—Artwork

Display Listings

Encoders—Keyboard

Graph Paper

ICs Listings

Instruments & Accessories Reference List

Keyboards

Keypunchers

Key Sets

Kits—Computer

Magnetic Listings

Memories

Modules, Logic

Optoelectronic Logic & Memory Circuits

Oscillators, Modules—Computer Clock

Power Supplies—Logic

Printers

Programmers

Servos—Computer

Synchro Listings

Test Systems, Automatic Checkout

Test Systems, Production Test

Time Code Generators

Word Generators

DATA RECORDING CAMERAS

See Cameras

DATA RETRIEVAL SYSTEMS

HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Acurex Autodata Mountain View CA	415-964-3200
American Science & Engineering Inc	
Cambridge MA	617-868-1600
Bailey Controls Co Wickliffe OH	216-585-8500
CELCO (Constantine Engineering Labs Co)	
Mahwah NJ	201-327-1123
Comark Corp Medfield MA	617-359-8161
Computer Consoles Inc Rochester NY	716-482-5000
Computer Sciences Corp El Segundo CA	213-615-0311
Digital Equipment Corp Maynard MA	617-897-5111
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Gordon Enterprises Inc North Hollywood CA	818-985-5500
Hewlett-Packard Palo Alto CA	415-857-8000
Honeywell Information Systems Waltham MA	617-895-6000
Hunter Products Inc Bridgewater NJ	201-526-8440
IRD Mechanalysis Inc Columbus OH	614-885-5376
Lear Siegler Inc Instrument Div	
Grand Rapids MI	616-241-7000
Lockheed Electronics Co Inc Plainfield NJ	201-757-1600
Locus Inc State College PA	814-466-6275
Montedoro-Whitney Corp	
San Luis Obispo CA	805-543-1233
Moseley Associates Inc Goleta CA	805-968-9621
Ocean Technology Inc Burbank CA	213-849-7111
Optimized Devices Inc Pleasantville NY	914-769-6100
Pacific Electron Corp Santa Ana CA	714-546-4405
Photomatrix Corp Santa Monica CA	213-828-9585
Princeton Electronic Products Inc	
North Brunswick NJ	201-297-4448
Sanders Associates Inc Nashua NH	603-885-4321
Serial Lab Products Inc Marlboro MA	617-481-1684
Sparton Technology Inc Rio Rancho NM	505-892-5300
Spatial Data Systems Inc Melbourne FL	305-729-8346

Strandberg Engineering Labs Inc	
Greensboro NC	919-274-3775
Tektronix Inc Beaverton OR	800-547-6711
Unitronix Corp Somerville NJ	201-231-9400

DATA STORAGE TUBES

See Tubes—Cathode Ray

DATA SYNCHRONIZERS—TELEMETRY

Adtech Inc Honolulu HI	808-941-0708
A-Systems Inc Charlottsville VA	804-295-7200
Aydin Monitor Systems Ft Washington PA	215-646-8100
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Datum Inc Timing/AACOM Divs Anaheim CA	714-533-6333
Decom Systems Inc San Marcos CA	619-744-1002
Dynatech Packet Tech Alexandria VA	703-642-9391
Electrac Inc Anaheim CA	714-879-6021
Fairchild Weston Systems Inc Sarasota FL	813-371-0811
Interface Engineering Inc Stoughton MA	617-344-7383
Locus Inc State College PA	814-466-6275
Loral Data Systems/Conic San Diego CA	619-279-0411
Metric Systems Corp Fort Walton Beach FL	904-244-9600
Ocean Technology Inc Burbank CA	213-849-7111
Tejas Controls Inc Houston TX	713-956-4800

DATA TERMINALS

See Terminals, Data; Teleprinters;
Teletypewriters

DATA TRANSMISSION SYSTEMS

See Communications Systems

DB METERS

See Meters—DB

DC AMPLIFIERS

See Amplifiers

DC POWER EQUIPMENT

See Power Converters; Power Generators; Power
Inverters; Power Supplies

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Consolidated Resistance Co of America Inc	
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Electro Scientific Industries Inc Portland OR	503-641-4141
Enercorp Instruments Ltd Islington ON	416-231-5333
General Resistance Inc N Branford CT	203-481-5722
Gen Rad Inc Waltham MA	617-369-4400
Guidline Instruments Inc Orlando FL	305-423-8211
Heath Co Benton Harbor MI	616-982-3200
IET Labs Inc Westbury NY	516-334-5959
Julie Research Labs Inc New York NY	212-245-2722
Leeds & Northrup Instruments	
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Ohmite Mfg Co Skokie IL	312-675-2600
Paraplegics Mfg Co Inc Bensenville IL	312-625-7741
Penn Airborne Products Co Southampton PA	215-355-3400
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
RE Instruments Corp Westlake OH	216-871-7617
Sager Hingham MA	617-749-6700
Sargent-Welch Scientific Co Skokie IL	312-677-0600
Sensitive Research Instruments Mt Vernon NY	914-699-9711
SPC Technology Bensenville IL	312-766-6711
Tech Laboratories Inc Palisades Park NJ	201-944-2222
Tettex Instruments Inc Fairview Village PA	215-539-6050
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Viz Test Equip Div Viz Mfg Co	
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Yokogawa Corp Of America Shenandoah GA	404-253-7000
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PPM Inc Cleveland OH	216-292-6000
Racal-Dana Instruments Inc Irvine CA	714-859-8990

DECADE SCALERS

See Counters (Instruments)—Decade

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SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Canrad-Hanovia Inc Newark NJ	201-589-4300
Drake Industries Inc Austin TX	512-251-2233
Electromark Co Wolcott NY	315-594-8080
Hallmark Nameplate Inc Farmingdale NY	800-645-9500
International Instrumentation Inc	
Westlake Village CA	818-991-9611
Keene Corp Laminates Div	
East Providence RI	401-434-2340
Seton Name Plate Corp New Haven CT	203-488-0080
Shokai Far East Ltd Hartsdale NY	914-681-0700
Skyway Magnetics Warner Springs CA	619-782-3340
Tapecon Inc Rochester NY	716-621-8400
Topflight Corp York PA	717-843-9900
Unifab Inc Hampstead NH	603-329-8200

DECKS—TAPE

See Magnetic Tape Decks; Paper Tape

Mechanisms

DECODER-DRIVERS

See Display Drivers; Display Modules; ICs

Listings; Modules

DECODERS—BINARY-TO-DECIMAL

See Converters—Binary; Display Modules; ICs

Listings; Modules

DECODERS—DIGITAL TO ANALOG

See Converters Listings; ICs Listings

DECODERS—TONE

AEROFLEX LABS INC MICROELECTRONICS DIV	
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NORTHBRIDGE CA	818-993-8257
TIME ZERO CORP CLIFTON NJ	201-340-0400

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Cincinnati ElectroSystems Inc Loveland OH	513-831-4347
Gen Rad Inc Waltham MA	617-369-4400
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
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American Microsignal Corp Stanton CA	714-761-1222
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A-Systems Inc Charlottesville VA	804-295-7200
Aydin Vector Div Newtown PA	215-968-4271
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ComData Corp Morton Grove IL	312-470-9600
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Dowty RFL Industries Inc Commun	
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FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Glenayre Electronics Ltd Vancouver BC	604-293-1611
Gould AMI Semiconductors Santa Clara CA	408-246-0330
ITE Microcircuits Tempe AZ	602-968-4431
Hi-Shear Technology Corp Torrance CA	213-326-8110
Local Data Systems/Conic San Diego CA	619-279-0411
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Microperipheral Corp Redmond WA	206-881-7544
Mitel Corp Semiconductor Div Kanata ON	613-592-5630
Mobil Electronics Inc Anderson IN	317-642-7976
Mostek Corp Carrollton TX	214-466-6000
National Semiconductor Corp Santa Clara CA	408-721-5000
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Palomar Engineers Escondido CA	619-747-3343
Rodale Electronics Corp Garden City NY	516-222-0050
Safetran Sys Corp Electronic Div	
Cucamonga CA	714-987-4673
Solid State Electronics Corp Northridge CA	818-993-8257
Telton Corp Kirkland WA	206-827-9626
Time Zero Corp Clifton NJ	201-340-0400
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Gould AMI Semiconductors Santa Clara CA	408-246-0330
ITE Microcircuits Tempe AZ	602-968-4431
Local Data Systems/Conic San Diego CA	619-279-0411

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Aydin Monitor Systems Ft Washington PA	215-646-8100
Ata-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Atum Inc Timing/AACOM Divs Anaheim CA	714-533-6333
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Interface Engineering Inc Stoughton MA	617-344-7383
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DEFLECTION YOKES

See Yokes

DEGAUSSING COILS

See Coils—Degaussing

DEGREASERS

See Cleaning Materials; Machines—Degreasing

DEHUMIDIFIERS

See Also Chemicals—Desiccant

Airflow Co Frederick MD	301-831-3100
Antennas for Communications Inc Ocala FL	904-687-4121
ablewave Sys Div Celwave Sys Inc	
North Haven CT	203-239-3311
Argocaire Engineering Corp Amesbury MA	617-388-0600
Electric Commun Unit General Signal	
Raymond ME	207-655-4555
Labriel Electronics Inc Scarborough ME	207-883-5161
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ariow Industries Inc Garland TX	214-494-2521
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an Air Systems Inc Lake City PA	614-774-2631

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recision Tube Co Inc North Wales PA	215-699-5801
laychem Corp Menlo Park CA	415-361-3333
Voven Electronics Corp Mauldin SC	803-963-5131

DELAY-LINE CORES

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DELAY-LINE MEMORIES

See Memories—Delay-Line

or addresses, phones & sales offices, see green pages

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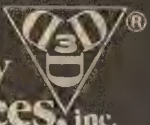
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ECL Interfaced

TTL Interfaced

H-CMOS Interfaced



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ADV PG 153	
DATA DELAY DEVICES INC CLIFTON NJ	201-772-1106
ADV PG 153	
ESC ELECTRONICS CORP	
PALISADES PARK NJ	201-947-0400
ADV PG 157	
FREQUENCY SELECTIVE NETWORKS INC	
WOODSIDE NY	718-424-7500
ADV PG 191	
RCD COMPONENTS INC	
MANCHESTER NH	603-669-0054
Allen Avionics Inc Div A K Allen Co Inc	
Mineola NY	516-248-8080
B G Electronics Inc Mount Vernon NY	914-664-5591
Centroid Inc Syosset NY	516-822-4770
Computer Devices Corp Commack NY	516-543-4220
Control Electronics Co Inc Farmingdale NY	516-694-0125
Control Technology Div AirBorn Elect Corp	
Garland TX	214-272-5544
Data Delay Devices Inc Clifton NJ	201-772-1106
Designatronix Inc Sub Automatic Coil	
New Hyde Park NY	516-328-3333
EGG Reticon Sunnyvale CA	408-738-4266
ESC Electronics Corp Palisades Park NJ	201-947-0400
Frequency Selective Networks Inc	
Woodside NY	718-424-7500
Kappa Networks Inc Rahway NJ	201-541-1600
OPT Industries Inc Phillipsburg NJ	201-454-2600
RCD Components Inc Manchester NH	603-669-0054
Telecommunications Techniques Corp	
Gaithersburg MD	301-258-5011
Toko America Inc Mt Prospect IL	312-297-0070

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Control Electronics Co Inc Farmingdale NY	516-694-0125
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Kappa Networks Inc Rahway NJ	201-541-1600
Microsonics Inc Weymouth MA	617-337-4200
Pulse Engineering Sub Varian San Diego CA	619-268-2400
RCD Components Inc Manchester NH	603-669-0054
Toko America Inc Mt Prospect IL	312-297-0070

DELAY LINES, DIGITAL—ELECTROMAGNETIC

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Microsonics Inc Weymouth MA	617-337-4200
PCA Electronics Inc Sepulveda CA	818-892-0761
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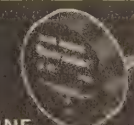
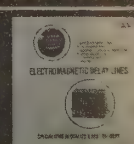
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0447

DIGITAL DELAY LINES

TECHNICAL INFORMATION

Bel Fuse Digital Delay Lines Series 0447 features five equally tapped delay lines with total delays of 25 to 500 nanoseconds. The lines are compatible with TTL and DTL circuits. Either Logic "1" or Logic "0" inputs are accepted. Cascading of units causes no undesirable reflections. The reduced dimensions, with standard Dip Pin-Out permits dense packaging on your circuit board. Special designs upon request.

INPUT TEST CONDITIONS

Pulse Voltage	3.2 Volts
Rise Time	3.0 Nsec.
Pulse Width	Min. 40% of Total Delay
Supply Current	60 ma typ
Supply Voltage	5.0 Volts

ELECTRICAL CHARACTERISTICS

Supply Voltage Vcc	4.75 to 5.25 Volts
Logic 1 Input Current	50 Microamps Max.
Logic 0 Input Current	- 2 Milliamps Max.
Logic 1 Output Voltage	2.6 Volts Min.
Logic 0 Output Voltage	.5 Volts Max.

DRIVE CAPABILITIES

10 TTL Loads/Tap. Max.

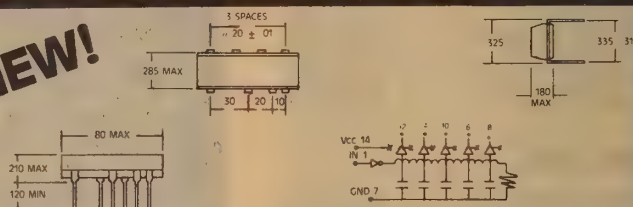
20 TTL Loads/Unit Max.

- COMPATIBLE WITH TTL AND DTL CIRCUITS
- DELAY TOLERANCE $\pm$ 2Nsec or 5% WHICH EVER IS GREATER FROM INPUT TO TAP
- TAP TO TAP DELAY $\pm$ 2Nsec or 7% WHICH EVER IS GREATER
- OPERATING TEMPERATURE RANGE 0°C to 70°C

Specifications Subject To Change Without Notice

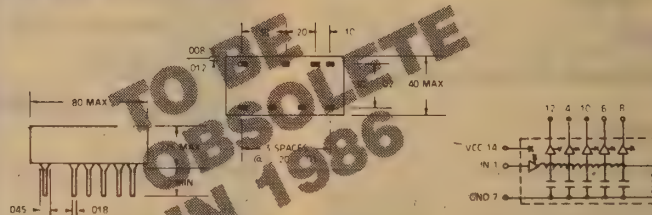
14 PIN - 5 TAP AUTO INSERTABLE

NEW!



Part Number	Total Delay 1, 3	Delay/Tap 1, 3	Rise Time 2, 3
0447-0025-02	25NS	5NS	4NS
0447-0050-02	50NS	10NS	4NS
0447-0100-02	100NS	20NS	4NS
0447-0150-02	150NS	30NS	4NS
0447-0200-02	200NS	40NS	4NS
0447-0250-02	250NS	50NS	4NS
0447-0300-02	300NS	60NS	4NS
0447-0350-02	350NS	70NS	4NS
0447-0400-02	400NS	80NS	4NS
0447-0450-02	450NS	90NS	4NS
0447-0500-02	500NS	100NS	4NS

14 PIN - 5 TAP



Part Number	Total Delay 1, 3	Delay/Tap 1, 3	Rise Time 2, 3
0447-0025-02	25NS	5NS	4NS
0447-0050-02	50NS	10NS	4NS
0447-0100-02	100NS	20NS	4NS
0447-0150-02	150NS	30NS	4NS
0447-0200-02	200NS	40NS	4NS
0447-0250-02	250NS	50NS	4NS
0447-0300-02	300NS	60NS	4NS
0447-0350-02	350NS	70NS	4NS
0447-0400-02	400NS	80NS	4NS
0447-0450-02	450NS	90NS	4NS
0447-0500-02	500NS	100NS	4NS

¹Delays measured at 1.5 Volt level on Leading Edge only.

²Rise Times measured from .75 Volts to 2.4 Volts.

³Measured with no loads on taps.

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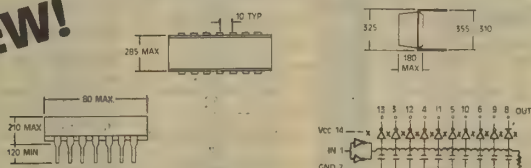
series

0447

DIGITAL
DELAY LINES

14 PIN-10 TAP AUTO INSERTABLE

NEW!



Part Number	Total Delay 1, 3	Delay/Tap 1, 3	Rise Time 2, 3
0447-0050-10	50NS	5NS	4NS
0447-0100-10	100NS	10NS	4NS
0447-0150-10	150NS	15NS	4NS
0447-0200-10	200NS	20NS	4NS
0447-0250-10	250NS	25NS	4NS
0447-0300-10	300NS	30NS	4NS
0447-0350-10	350NS	35NS	4NS
0447-0400-10	400NS	40NS	4NS
0447-0500-10	500NS	50NS	5NS
0447-0750-10	750NS	75NS	5NS
0447-1000-10	1000NS	100NS	5NS

TECHNICAL INFORMATION

Bel Fuse Digital Delay Lines Series 0447 features ten equally tapped delay lines with total delays of 50 to 1000 nanoseconds. The lines are compatible with TTL and DTL circuits. Either Logic "1" or Logic "0" inputs are accepted. Cascading of units causes no undesirable reflections. The reduced dimensions, with standard Dip Pin-Out permits dense packaging on your circuit board. Special designs upon request.

INPUT TEST CONDITIONS

Pulse Voltage	3.2 Volts
Rise Time	3.0 Nsec.
Pulse Width	Min. of 40% of total delay
Supply Current	120 ma typ
Supply Voltage	5.0 Volts

ELECTRICAL CHARACTERISTICS

Supply Voltage Vcc	4.75 to 5.25 Volts
Logic 1 Input Current	100 Microamps Max.
Logic 0 Input Current	-4 Milliamps Max.
Logic 1 Output Voltage	2.6 Volts Min.
Logic 0 Output Voltage	.5 Volts Max.

DRIVE CAPABILITIES

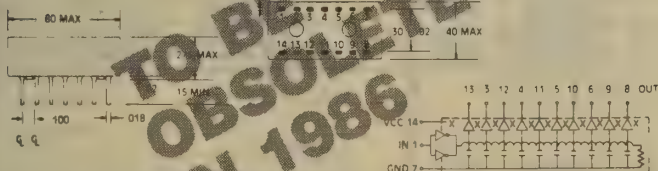
10 TTL Loads/Tap. Max.

20 TTL Loads/Unit Max.

- COMPATIBLE WITH TTL AND DTL CIRCUITS
- DELAY TOLERANCE $\pm 2\text{Nsec}$ or 5% WHICH-EVER IS GREATER FROM INPUT TO TAP
- TAP TO TAP DELAY $\pm 2\text{Nsec}$ or 7% WHICH-EVER IS GREATER
- OPERATING TEMPERATURE RANGE 0°C to 70°C

Specifications Subject To Change Without Notice

14 PIN-10 TAP



Part Number	Total Delay 1, 3	Delay/Tap 1, 3	Rise Time 2, 3
0447-0050-10	50NS	5NS	4NS
0447-0100-10	100NS	10NS	4NS
0447-0150-10	150NS	15NS	4NS
0447-0200-10	200NS	20NS	4NS
0447-0250-10	250NS	25NS	4NS
0447-0300-10	300NS	30NS	4NS
0447-0350-10	350NS	35NS	4NS
0447-0400-10	400NS	40NS	4NS
0447-0500-10	500NS	50NS	5NS
0447-0750-10	750NS	75NS	5NS
0447-1000-10	1000NS	100NS	5NS

*Delays measured at 1.5 Volt level on Leading Edge only

*Rise Times measured from .75 Volts to 2.4 Volts

*Measured with no loads on taps

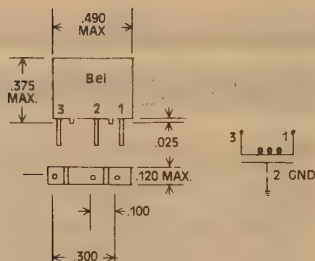
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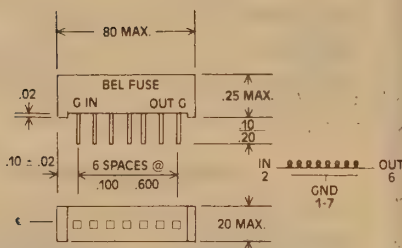
SINGLE-IN-LINE DELAY LINES

- Compatible with ECL and TTL circuits
- Temperature coefficient of delay = 100 PPM/or less
- Operating temperature range - 55°C to + 125°C
- Built to conform to MIL-D-23859



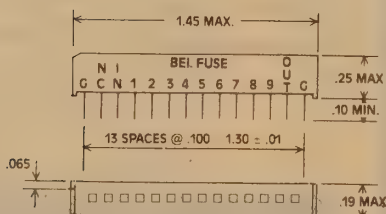
- Rise Time = 20-80%
- DWV = 50 VDC
- Pins 24 AWG tinned copper
- DIST. = 7.5% max.
- Bi-Directional

Time Delay	Rise Time	D.C.R. Max. in OHMS	55 OHMS ± 10%	93 OHMS ± 10%
1 ± .2NS	1.6NS	.20	0402-0001-55	0402-0001-93
2 ± .2NS	1.6NS	.25	0402-0002-55	0402-0002-93
3 ± .2NS	1.7NS	.37	0402-0003-55	0402-0003-93
4 ± .2NS	1.7NS	.50	0402-0004-55	0402-0004-93
5 ± .25NS	1.8NS	.62	0402-0005-55	0402-0005-93
6 ± .3NS	2.0NS	.75	0402-0006-55	0402-0006-93
7 ± .3NS	2.2NS	.80	0402-0007-55	0402-0007-93
8 ± .3NS	2.4NS	.85	0402-0008-55	0402-0008-93
9 ± .3NS	2.6NS	.90	0402-0009-55	0402-0009-93
10 ± .3NS	2.8NS	.95	0402-0010-55	0402-0010-93



- Rise Time = 10 to 90%
- DWV = 50 VDC
- DIST = 10% max.
- Taps available upon request
- Other delays upon request
- Other PIN OUTS Available
- Pins .012 x .020

Time Delay	Rise Time	Atten. Max. in %	Part Number		
			55 OHMS ± 10%	100 OHMS ± 10%	200 OHMS ± 10%
1 ± .3NS	2.6NS	3	0403-0001-55	0403-0001-01	0403-0001-02
2 ± .3NS	2.75NS	3	0403-0002-55	0403-0002-01	0403-0002-02
3 ± .3NS	2.9NS	3	0403-0003-55	0403-0003-01	0403-0003-02
4 ± .3NS	3.15NS	3	0403-0004-55	0403-0004-01	0403-0004-02
5 ± .3NS	3.2NS	5	0403-0005-55	0403-0005-01	0403-0005-02
10 ± .5NS	4.0NS	5	0403-0010-55	0403-0010-01	0403-0010-02
15 ± .7NS	5.25NS	5	0403-0015-55	0403-0015-01	0403-0015-02
20 ± 1NS	6.1NS	5	0403-0020-55	0403-0020-01	0403-0020-02
25 ± 1.2NS	7.5NS	5	0403-0025-55	0403-0025-01	0403-0025-02
30 ± 1.5NS	9.0NS	6	0403-0030-55	0403-0030-01	0403-0030-02
35 ± 1.7NS	10.5NS	6	0403-0035-55	0403-0035-01	0403-0035-02
40 ± 2NS	12.5NS	6	0403-0040-55	0403-0040-01	0403-0040-02
45 ± 2.3NS	13.5NS	6	0403-0045-55	0403-0045-01	0403-0045-02
50 ± 2.5NS	15.0NS	6	0403-0050-55	0403-0050-01	0403-0050-02



- Rise Time = 10-90%
- DWV = 50 VDC
- DIST. = 10% max.
- Other delays upon request
- Pins .012 x .020

Time Delay ± 5%	Tap to Tap Delay	Rise Time	Z ₀ ± 10 % in OHMS	D.C.R. in OHMS	Part Number
10NS	1 ± .25NS	2.5NS	50	.8	0438-0010-50
20NS	2 ± .4NS	4NS	50	1	0438-0020-50
50NS	5 ± 1.5NS	9NS	50	2	0438-0050-50
100NS	10 ± 2NS	18NS	50	3	0438-0100-50
10NS	1 ± .25NS	2.5NS	100	1.6	0438-0010-01
20NS	2 ± .4NS	4NS	100	2	0438-0020-01
50NS	5 ± 1.5NS	9NS	100	4	0438-0050-01
100NS	10 ± 2NS	19NS	100	9	0438-0100-01
20NS	2 ± .4NS	4.5NS	200	5	0438-0020-02
50NS	5 ± 1.5NS	10NS	200	12	0438-0050-02
100NS	10 ± 2NS	20NS	200	17	0438-0100-02

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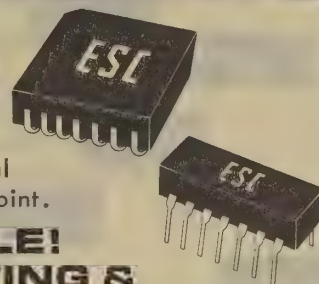
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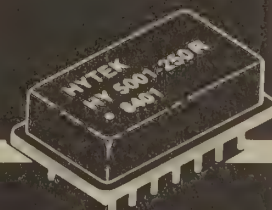


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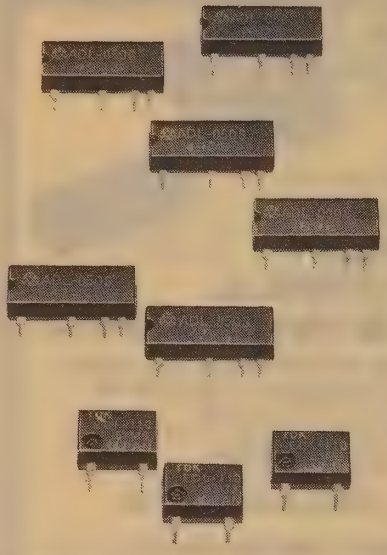
Active 5 and 10 Tap



hytek microsystems inc.
980 university Ave.
Los Gatos, CA 95030
(408) 395-2300/TWX 910-597-5393



DELAY LINES



TDK CORPORATION OF AMERICA
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 Phone (312) 679-8200
TDK CORPORATION
 13-1, Nihonbashi, 1-chome, Chuo-ku, Tokyo 103, Japan.

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Sidney NY	607-563-3520
Communication Coil Co Chicago IL	312-637-1333
Computer Devices Corp Commack NY	516-543-4220
Control Electronics Co Inc Farmingdale NY	516-694-0125
Data Delay Devices Inc Clifton NJ	201-772-1106
Datamax Electronics Inc Blue Jay CA	714-336-3561
Delta Products Corp Milpitas CA	408-262-2002
Designatronics Inc Sub Automatic Coil	
New Hyde Park NY	516-328-3333
Elmec Technology of America Inc	
Monterey Park CA	818-307-1669
El-Rad Mfg Co Chicago IL	312-478-7300
Engineered Components Co	
San Luis Obispo CA	805-544-3800
ESC Electronics Corp Palisades Park NJ	201-947-0400

Frequency Selective Networks Inc	
Woodside NY	718-424-7500
Hisonic Inc Olathe KS	913-782-0012
Hytek Microsystems Inc Los Gatos CA	408-395-2300
JBM Electronics Inc Manchester NH	603-623-0222
Kappa Networks Inc Rahway NJ	201-541-1600
K R Electronics Avenel NJ	201-636-1900
Microsonics Inc Weymouth MA	617-337-4200
Mitsumi Electronics Corp Melville NY	516-752-7730
Nano Pulse Industries Inc Brea CA	714-259-2600
OPT Industries Inc Phillipsburg NJ	201-454-2600
PCA Electronics Inc Sepulveda CA	818-892-0761
Precision Inc Minneapolis MN	612-537-9340
Pulse Engineering Sub Varian San Diego CA	619-268-2400
Rhombus Industries Inc Huntington Beach CA	714-898-0960
Sprague Electric Co Lexington MA	617-862-5500
TDK Corp Tokyo Japan	03-278-5111
Technitrol Inc Philadelphia PA	215-426-9105
Tobe Deutschmann Labs Inc Canton MA	617-828-3366
Toko America Inc Mt Prospect IL	312-297-0070
Transducer Systems Inc Kulpville PA	215-256-4611
Valor Electronics Inc San Diego CA	619-458-1471

DELAY LINES, ELECTROMAGNETIC—VARIABLE

ALLEN AVIONICS INC DIV A K ALLEN CO INC	
MINEOLA NY	516-248-8080
ADV PG 153	
ANDERSEN LABORATORIES INC	
BLOOMFIELD CT	203-242-0761
DATA DELAY DEVICES INC CLIFTON NJ	201-772-1106
ADV PG 153	
ESC ELECTRONICS CORP	
PALISADES PARK NJ	201-947-0400
ADV PG 157	
HYTEK MICROSYSTEMS INC	
LOS GATOS CA	408-395-2300
ADV PG 157	
Allen Avionics Inc Div A K Allen Co Inc	
Mineola NY	516-248-8080
Andersen Laboratories Inc Bloomfield CT	203-242-0761
Artronic Instrument Co Inc Sidney NY	607-563-8444
Columbia Components Co M E Systems Inc	
Sidney NY	607-563-3520
Computer Devices Corp Commack NY	516-543-4220
Control Electronics Co Inc Farmingdale NY	516-694-0125
Data Delay Devices Inc Clifton NJ	201-772-1106
Delta Products Corp Milpitas CA	408-262-2002
Designatronics Inc Sub Automatic Coil	
New Hyde Park NY	516-328-3333
Elmec Technology of America Inc	
Monterey Park CA	818-307-1669
Engineered Components Co	
San Luis Obispo CA	805-544-3800
ESC Electronics Corp Palisades Park NJ	201-947-0400
Hewlett-Packard Palo Alto CA	415-857-8000
Hytek Microsystems Inc Los Gatos CA	408-395-2300
Kappa Networks Inc Rahway NJ	201-541-1600
Lorch Electronics Corp Englewood NJ	201-569-8282
Microsonics Inc Weymouth MA	617-337-4200
Nano Pulse Industries Inc Brea CA	714-259-2600
PCA Electronics Inc Sepulveda CA	818-892-0761
Sakata USA Corp Elk Grove Village IL	312-593-3211

DELAY LINES—MAGNETOSTRICTIVE

Columbia Components Co M E Systems Inc	
Sidney NY	607-563-3520
Computer Devices Corp Commack NY	516-543-4220
Control Electronics Co Inc Farmingdale NY	516-694-0125

DELAY LINES—MICROWAVE THIN FILM (INCL. ELECTROACOUSTIC & SURFACE WAVE)

ANDERSEN LABORATORIES INC	
BLOOMFIELD CT	203-242-0761
BEL FUSE INC JERSEY CITY NJ	201-432-0463
ADV PGS 154-156	
Andersen Laboratories Inc Bloomfield CT	203-242-0761
Bel Fuse Inc Jersey City NJ	201-432-0463
Crystal Technology Inc Palo Alto CA	415-856-7911
Damon Electronics Div Westwood MA	617-329-2460
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Hazeltine Corp Commack NY	516-462-5100
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
Sawtek Inc Orlando FL	305-886-8860
Sollitron Microwave Connector Div	
Port Salerno FL	305-287-5000
Teledyne Microwave Mtn View CA	415-968-2211

DELAY LINES—TRANSMISSION LINES, COILED OR SPIRALED

ALLEN AVIONICS INC DIV A K ALLEN CO INC	
MINEOLA NY	516-248-8080
ADV PG 153	
BEL FUSE INC JERSEY CITY NJ	201-432-0463
ADV PGS 154-156	
Allen Avionics Inc Div A K Allen Co Inc	
Mineola NY	516-248-8080
Automatic Coil Corp Hialeah FL	305-883-5311
Bel Fuse Inc Jersey City NJ	201-432-0463
Cablewave Sys Div Celwave Sys Inc	
North Haven CT	203-239-3311

Coaxco Inc Tualatin OR	503-692-2
Columbia Components Co M E Systems Inc	
Sidney NY	607-563-3
Control Electronics Co Inc Farmingdale NY	516-694-0
Designatronics Inc Sub Automatic Coil	
New Hyde Park NY	516-328-3
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6
Electronic Resources Div Whitaker Corp	
Burbank CA	818-843-5
Jetronics Co Div J L Hall Co Inc	
Santa Rosa CA	707-544-2
Lorch Electronics Corp Englewood NJ	201-569-6
Micro-Coax Components Inc Collegeville PA	215-489-3
Microwave Engineering Corp	
North Andover MA	617-685-
Pasternack Enterprises Irvine CA	714-854-
Sollitron Microwave Connector Div	
Port Salerno FL	305-287-5
Woven Electronics Corp Mauldin SC	803-963-5

DELAY LINES—TRANSPONDER SETS

BEL FUSE INC JERSEY CITY NJ	201-432-0
ADV PGS 154-156	
DATA DELAY DEVICES INC CLIFTON NJ	201-772-1
ADV PG 153	
ESC ELECTRONICS CORP	
PALISADES PARK NJ	201-947-0
ADV PG 157	
Anders Inc Simsbury CT	203-658-7
Automatic Coil Corp Hialeah FL	305-883-5
Bel Fuse Inc Jersey City NJ	201-432-0
Columbia Components Co M E Systems Inc	
Sidney NY	607-563-3
Computer Devices Corp Commack NY	516-543-4
Control Electronics Co Inc Farmingdale NY	516-694-0
Data Delay Devices Inc Clifton NJ	201-772-1
Designatronics Inc Sub Automatic Coil	
New Hyde Park NY	516-328-3
El-Rad Mfg Co Chicago IL	312-478-7
ESC Electronics Corp Palisades Park NJ	201-947-0
Kappa Networks Inc Rahway NJ	201-541-1
Vega Precision Labs Vienna VA	703-938-6

DELAY LINES—ULTRASONIC, FIXED (EXCEPT DIGITAL GLASS)

ANDERSEN LABORATORIES INC	
BLOOMFIELD CT	203-242-0
Anders Inc Simsbury CT	203-658-7
Andersen Laboratories Inc Bloomfield CT	203-242-0
Control Electronics Co Inc Farmingdale NY	516-694-0
GTE Precision Materials Danvers MA	617-777-1
Microsonics Inc Weymouth MA	617-337-4
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791

DELAY LINES—ULTRASONIC, VARIABLE

ANDERSEN LABORATORIES INC	
BLOOMFIELD CT	203-242-0
Andersen Laboratories Inc Bloomfield CT	203-242-0
Control Electronics Co Inc Farmingdale NY	516-694-0
Microsonics Inc Weymouth MA	617-337-4

DELAY LINES—ULTRASONIC, VIDEO EQUALIZER

ANDERSEN LABORATORIES INC	
BLOOMFIELD CT	203-242-0
Alpha Components Inc Mechanicsburg PA	717-697-8
Anders Inc Simsbury CT	203-658-7
Andersen Laboratories Inc Bloomfield CT	203-242-0
Control Electronics Co Inc Farmingdale NY	516-694-0
Microsonics Inc Weymouth MA	617-337-4
Mitsumi Electronics Corp Melville NY	516-752-7
Panasonic Co Electronic Components Div	
Secaucus NJ	201-348-5

DELAYS—A-F, VARIABLE

DATA DELAY DEVICES INC CLIFTON NJ	201-772-1
ADV PG 153	
ESC ELECTRONICS CORP	
PALISADES PARK NJ	201-947-0
ADV PG 157	
Columbia Components Co M E Systems Inc	
Sidney NY	607-563-3
Computer Devices Corp Commack NY	516-543-4
Control Electronics Co Inc Farmingdale NY	516-694-0
Data Delay Devices Inc Clifton NJ	201-772-1
ESC Electronics Corp Palisades Park NJ	201-947-0
Halcyon Communications Inc San Jose CA	408-293-9
Kappa Networks Inc Rahway NJ	201-541-1
Karkar Electronics Inc San Francisco CA	415-552-1
Toko America Inc Mt Prospect IL	312-297-0

DEMAGNETIZERS

See Magnet Treating Equipment

EMINERALIZING EQUIPMENT

instead Co Industrial Prods Div Boston MA.....	617-327-1600
ring Glass Works Science Products	
orning NY.....	607-737-1667
ystalab Inc Hartford CT.....	203-527-3215
ilgan International Northbrook IL.....	312-488-2000
enab Inc Danbury CT.....	203-748-5624
monics Inc Osmo Membrane Sys Div	
vinnetonka MN.....	612-933-2277

EMODULATORS (EXCEPT MODEMS OR FOLLOWING TYPES LISTED)

RD ELECTRONIC CORP	
CLEVELAND (SOLO) OH.....	216-248-1200
MPUTER CONVERSIONS CORP	
EAST NORTHPORT NY.....	516-261-3300
NTROL TECHNOLOGY CO INC	
ONG ISLAND CITY NY.....	718-361-2133
LID STATE ELECTRONICS CORP	
NORTHBRIDGE CA.....	818-993-8257
nitor Systems Ft Washington PA.....	215-646-8100
Electronic Corp Cleveland (Solon) OH.....	216-248-1200
mData Corp Morton Grove IL.....	312-470-9600
puter Conversions Corp	
ast Northport NY.....	516-261-3300
ntrol Technology Co Inc	
ong Island City NY.....	718-361-2133
ta-Control Systems A CompuDyne Co	
ockville MD.....	301-279-8798
com Systems Inc San Marcos CA.....	619-744-1002
ctrac Inc Anaheim CA.....	714-879-6021
Instrumentation Inc Van Nuys CA.....	818-781-2185
neral Magnetics Inc Bloomfield NJ.....	201-743-2700
L Communications Corp Urbana IL.....	217-367-7373
R Communications Inc Hauppauge NY.....	516-273-7111
seley Associates Inc Goleta CA.....	805-968-9621
tel Engineering Co Inc Simi Valley CA.....	805-581-3950
ional Semiconductor Corp Santa Clara CA.....	408-721-5000
ad Inc Baltimore MD.....	301-462-1700
utron Corp Webster MA.....	617-943-7440
adyne Corp Largo FL.....	813-530-2000
id State Electronics Corp Northridge CA.....	818-993-8257
idye Engineering Corp Northridge CA.....	818-886-2057

EMODULATORS—DISCRIMINATORS

See Discriminators

EMODULATORS—FREQUENCY TO DC

CONVERTERS

See Converters—Frequency to DC

EMODULATORS—MICROWAVE

DETECTOR

See Detectors, Microwave

EMODULATORS—SYNCHRONOUS,

CHOPPER TYPE

MPUTER CONVERSIONS CORP	
EAST NORTHPORT NY.....	516-261-3300
NTROL TECHNOLOGY CO INC	
ONG ISLAND CITY NY.....	718-361-2133
LID STATE ELECTRONICS CORP	
NORTHBRIDGE CA.....	818-993-8257
omatic Timing & Controls Co	
King of Prussia PA.....	800-441-8245
puter Conversions Corp	
ast Northport NY.....	516-261-3300
ntrol Technology Co Inc	
ong Island City NY.....	718-361-2133
neral Magnetics Inc Bloomfield NJ.....	201-743-2700
seley Associates Inc Goleta CA.....	805-968-9621
tel Engineering Co Inc Simi Valley CA.....	805-581-3950
id State Electronics Corp Northridge CA.....	818-993-8257
smagnetics Inc Farmingdale NY.....	516-293-3100

EMODULATORS—SYNCHRONOUS,

ELECTRONIC

MPUTER CONVERSIONS CORP	
EAST NORTHPORT NY.....	516-261-3300
NTROL TECHNOLOGY CO INC	
ONG ISLAND CITY NY.....	718-361-2133
HAEVITZ ENGINEERING	
PENNSAUKEN NJ.....	609-662-8000
LID STATE ELECTRONICS CORP	
NORTHBRIDGE CA.....	818-993-8257
omatic Timing & Controls Co	
King of Prussia PA.....	800-441-8245
nitor Systems Ft Washington PA.....	215-646-8100
puter Conversions Corp	
ast Northport NY.....	516-261-3300
ntrol Technology Co Inc	
ong Island City NY.....	718-361-2133
ta-Control Systems A CompuDyne Co	
ockville MD.....	301-279-8798
com Systems Inc San Marcos CA.....	619-744-1002
ctrac Inc Anaheim CA.....	714-879-6021
neral Magnetics Inc Bloomfield NJ.....	201-743-2700
aco Inc Ithaca NY.....	607-272-7640

Addresses, phones & sales offices, see green pages

Natel Engineering Co Inc Simi Valley CA.....	805-581-3950
National Semiconductor Corp Santa Clara CA.....	408-721-5000
Northern Precision Labs Inc Fairfield NJ.....	201-227-4800
Schaevitz Engineering Pennsauken NJ.....	609-662-8000
Solid State Electronics Corp Northridge CA.....	818-993-8257
Transmagetics Inc Farmingdale NY.....	516-293-3100

DEMODULATORS—TELEMETRY

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY.....	718-361-2133
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA.....	818-993-8257
Aydn Monitor Systems Ft Washington PA.....	215-646-8100
ComData Corp Morton Grove IL.....	312-470-9600
Control Technology Co Inc	
Long Island City NY.....	718-361-2133
Data-Control Systems A CompuDyne Co	
Rockville MD.....	301-279-8798
Decorn Systems Inc San Marcos CA.....	619-744-1002
Dowty RFL Industries Inc Commun	
Boonton NJ.....	201-334-3100
Electrac Inc Anaheim CA.....	714-879-6021
Eon Instrumentation Inc Van Nuys CA.....	818-781-2185
Fairchild Weston Systems Inc Sarasota FL.....	813-371-0811
Loral Data Systems/Conic San Diego CA.....	619-279-0411
Moseley Associates Inc Goleta CA.....	805-968-9621
National Semiconductor Corp Santa Clara CA.....	408-721-5000
Scientific-Atlanta Inc Atlanta GA.....	404-441-4000
Solid State Electronics Corp Northridge CA.....	818-993-8257
Sonex Corp Philadelphia PA.....	215-533-4900
Vega Precision Labs Vienna VA.....	703-938-6300
West Coast Research Corp Los Angeles CA.....	213-478-8833

DEMONSTRATORS—ELECTRONIC CIRCUIT

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY.....	718-361-2133
Control Technology Co Inc	
Long Island City NY.....	718-361-2133

DEMONSTRATORS—SERVO

See Servo Demonstrators

DEMULTIPLEXERS (EXCEPT IC DEVICES)

See Also Decommulators

Automation Displays Inc Eau Claire WI.....	715-834-9595
Aydn Monitor Systems Ft Washington PA.....	215-646-8100
Data-Control Systems A CompuDyne Co	
Rockville MD.....	301-279-8798
Fairchild Weston Systems Inc Sarasota FL.....	813-371-0811
Foundation Instruments Inc Nepean ON.....	613-226-4000
Harris Corp Govt Sys Sector Melbourne FL.....	305-727-4000
Loral Data Systems/Conic San Diego CA.....	619-279-0411
Microperipheral Corp Redmond WA.....	206-881-7544
Optical Coating Lab Inc Santa Rosa CA.....	707-545-6440
Valhalla Scientific Inc San Diego CA.....	619-457-5576
West Coast Research Corp Los Angeles CA.....	213-478-8833

DENSITOMETERS—ELECTRONIC

Automation Products Inc Houston TX.....	713-869-0361
Cosar Corp Garland TX.....	214-276-9487
CPN Corp Pacheco CA.....	415-687-6472
EG & G Gamma Scientific Inc San Diego CA.....	619-279-8034
Eichmotic Inc Waltham MA.....	617-893-2020
ITT Barton Instruments Co	
City of Industry CA.....	818-961-2547
Macbeth Process Msmts Div Kolimorgen Corp	
Newburgh NY.....	914-565-4440
National Sonics Div Xertex Corp	
Hauppauge NY.....	516-273-6600
RIL Electronics Inc Warrington PA.....	215-343-5075
Sargent-Welch Scientific Co Skokie IL.....	312-677-0600
Spatial Data Systems Inc Melbourne FL.....	305-729-8346
Spectron Engineering Inc Denver CO.....	303-623-8987
Wauht Controls Corp Chatsworth CA.....	818-998-8281
Carl Zeiss Inc Thornwood NY.....	914-747-1800

DENSITY CONTROLS

See Controls—Density

DEPTH SOUNDERS

ENVIROMARINE SYSTEMS INC	
LAUREL MD.....	301-598-8833
ACR Electronics Inc Ft Lauderdale FL.....	305-981-3333
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Enviromarine Systems Inc Laurel MD.....	301-598-8833
Furuno USA Inc So San Francisco CA.....	415-873-9393
General Instrument Corp Govt Systems Div	
Hicksville NY.....	516-933-3408
Massa Products Corp Hingham MA.....	617-749-4800
Ramsay Engineering Co Anaheim CA.....	714-524-8855
Raytheon Ocean Systems Co	
East Providence RI.....	401-438-1780
Ross Laboratories Inc Seattle WA.....	206-324-3950
Sperry Corp Aerospace & Marine Group	
Phoenix AZ.....	602-869-2311
Waller Corp Crystal Lake IL.....	815-459-6510

DESICCANTS

See Chemicals—Desiccant

DESOLDERING TOOLS

See Tools—Desoldering

DETECTOR DIODES

See Diodes—Microwave

DETECTORS

See Demodulators

Detectors, Microwave

Detectors, Standing Wave

Fire Detectors & Alarms

Leak Detectors

Metal Detectors

Modems

Security Systems

Traffic Detectors

Ultrasonic Equipment

DETECTORS—FIRE

See Fire Detectors & Alarms

DETECTORS—FLAW

See Flaw Detectors

DETECTORS—LEAK

See Leak Detectors

DETECTORS—METAL

See Metal Detectors

DETECTORS, MICROWAVE, COMPLETE ASSEMBLIES—FIXED TUNED

BIRD ELECTRONIC CORP	
CLEVELAND (SOLO) OH.....	216-248-1200
Aerojet Electro Systems Co Azusa CA.....	818-334-6211
Alken Advanced Sys Div Amstar Tech Prods Inc	
Alexandria VA.....	703-370-0900
Airtron Div Litton Systems Inc	
Morris Plains NJ.....	201-539-5500
Alpha Industries Inc Woburn MA.....	617-935-5150
Bird Electronic Corp Cleveland (Solon) OH.....	216-248-1200
Continental Resources Inc Bedford MA.....	617-275-0850
Custom Components Inc Lebanon NJ.....	201-534-6151
Diamond Antenna & Microwave Corp	
Winchester MA.....	617-729-5500
Eastern Microwave Corp Woburn MA.....	617-935-8600
Eaton Corp Elctn Inst Div Ronkonkoma NY.....	516-588-3600
Elcom Systems Inc Boca Raton FL.....	305-994-1774
Epsilon-Lambda Electronics Corp Geneva IL.....	312-232-9611
Harris Corp Govt Support Sys Div	
Syosset NY.....	516-364-0400
Hewlett-Packard Palo Alto CA.....	415-857-8000
Hughes Aircraft Co Microwave Prods Div	
Torrance CA.....	213-517-6400
KDI Electronics Inc Whippary NJ.....	201-887-8100
M/A-COM Microwave Components Inc	
Burlington MA.....	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA.....	617-272-3000
M/A COM Omni Spectra Inc Merrimack NH.....	603-424-4111
M/A-COM Solid State Circuits Hudson NH.....	603-880-1911
Mauy Microwave Corp Cucamonga CA.....	714-987-4715
Meca Electronics Inc Denville NJ.....	201-625-0661
Metropole Products Inc Stafford VA.....	703-659-2132
Microwave Development Labs Inc Natick MA.....	617-655-0060
Mountain West Alarm Supply Co Phoenix AZ.....	602-263-8831
The Narda Microwave Corp Hauppauge NY.....	516-231-1700
Olektron Corp Webster MA.....	617-943-7440
Omega Laboratories Inc Rowley MA.....	617-948-7757
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands.....	040791111
Premier Microwave Corp Port Chester NY.....	914-939-8900
Racon Inc Seattle WA.....	206-241-1110
RLC Electronics Inc Mt Kisco NY.....	914-241-1334
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany.....	089-41290
Sage Laboratories Inc Natick MA.....	617-653-0844
Simpson Electric Co Elgin IL.....	312-697-2260
Stock Drive Products Inc Div Designatronics	
New Hyde Park NY.....	516-328-0200
Struthers Electronics Corp Farmingdale NY.....	516-420-9000
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Telonic/Berkeley Laguna Beach CA.....	714-494-9401
Triangle Microwave Inc East Hanover NJ.....	201-884-1423
TRW Microwave Sunnyvale CA.....	408-732-0880
Waveline Inc West Caldwell NJ.....	201-226-9100
Western Microwave Sunnyvale CA.....	408-734-1631
Wiltron Co Morgan Hill CA.....	408-778-2000

For ADVERTISERS' CATALOGS see Directory of Catalogs (white pages)

DETECTORS, MICROWAVE, COMPLETE ASSEMBLIES—TUNABLE

Alpha Industries Inc Woburn MA	617-935-5150
Diamond Antenna & Microwave Corp Winchester MA	617-729-5500
Eastern Microwave Corp Woburn MA	617-935-8600
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Harris Corp Govt Support Sys Div Syosset NY	516-364-0400
Hewlett-Packard Palo Alto CA	415-857-8000
Hughes Aircraft Co Microwave Prods Div Torrance CA	213-517-6400
KDI Electronics Inc Whippany NJ	201-887-8100
M/A COM Microwave Circuits Inc Burlington MA	617-272-3000
M/A-COM Microwave Components Inc Burlington MA	617-272-3000
M/A-COM Millimeter Products Inc Burlington MA	617-272-3000
M/A COM Omni Spectra Inc Merrimack NH	603-424-4111
M/A-COM Solid State Circuits Hudson NH	603-880-1911
Mauri Microwave Corp Cucamonga CA	714-987-4715
Meca Electronics Inc Denville NJ	201-625-0661
Omega Laboratories Inc Rowley MA	617-948-7757
Philips Electronic Comps & Matis Div Eindhoven Netherlands	04079-1111
Premier Microwave Corp Port Chester NY	914-939-8900
RLC Electronics Inc Mt Kisco NY	914-241-1334
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Struthers Electronics Corp Farmingdale NY	516-420-9000
Teledyne Microelectronics Los Angeles CA	213-870-9831
TRW Microwave Sunnyvale CA	408-732-0880
Waveline Inc West Caldwell NJ	201-226-9100

DETECTORS—POWER FAILURE

See Monitors—Power Supply

DETECTORS, STANDING WAVE—MICROWAVE

Alpha Industries Inc Woburn MA	617-935-5150
Continental Resources Inc Bedford MA	617-275-0850
Diamond Antenna & Microwave Corp Winchester MA	617-729-5500
Eastern Microwave Corp Woburn MA	617-935-8600
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Harris Corp Govt Support Sys Div Syosset NY	516-364-0400
Hewlett-Packard Palo Alto CA	415-857-8000
Leasametric Inc Foster City CA	415-574-4441
M/A COM Microwave Circuits Inc Burlington MA	617-272-3000
M/A COM Omni Spectra Inc Merrimack NH	603-424-4111
M/A-COM Solid State Circuits Hudson NH	603-880-1911
Mauri Microwave Corp Cucamonga CA	714-987-4715
Microwave Development Labs Inc Natick MA	617-655-0060
Omega Laboratories Inc Rowley MA	617-948-7757
Philips Electronic Comps & Matis Div Eindhoven Netherlands	04079-1111
Premier Microwave Corp Port Chester NY	914-939-8900
RLC Electronics Inc Mt Kisco NY	914-241-1334
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Struthers Electronics Corp Farmingdale NY	516-420-9000
Teledyne Microelectronics Los Angeles CA	213-870-9831
TRW Microwave Sunnyvale CA	408-732-0880
Varian Electron Device Group Palo Alto CA	415-493-4000
Waveline Inc West Caldwell NJ	201-226-9100
Wiltron Co Morgan Hill CA	408-778-2000

DETECTORS, STANDING WAVE—RF (EXCEPT MICROWAVE)

BIRD ELECTRONIC CORP CLEVELAND (SOLON) OH	216-248-1200
Alan Industries Inc Columbus IN	812-372-8869
Bird Electronic Corp Cleveland (Solon) OH	216-248-1200
Eastern Microwave Corp Woburn MA	617-935-8600
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Harris Corp Govt Support Sys Div Syosset NY	516-364-0400
Hewlett-Packard Palo Alto CA	415-857-8000
Leasametric Inc Foster City CA	415-574-4441
Matec Instruments Inc Warwick RI	401-739-9030
Palomar Engineers Escondido CA	619-747-3343
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Teledyne Microelectronics Los Angeles CA	213-870-9831
Telonic/Berkeley Laguna Beach CA	714-494-9401
Texscan Corp Phoenix AZ	602-252-5021
Toko America Inc Mt Prospect IL	312-297-0070
TRW Microwave Sunnyvale CA	408-732-0880
Wiltron Co Morgan Hill CA	408-778-2000

DETECTORS—TRAFFIC

See Traffic Detectors

DIAL CORDS

Autosplice Inc Woodside NY	718-429-0500
Carolina Steel & Wire Corp Lexington SC	803-359-5501
Philmore Mfg Co Inc Inwood NY	516-239-6161

DIAL DRIVE BELTS

Autosplice Inc Woodside NY	718-429-0500
Berg Inc Winfred M East Rockaway NY	516-599-5010
PIC Design Middlebury CT	203-758-8272
Sterling Instrument Div Designatronics Inc New Hyde Park NY	516-328-3300

DIAL LAMPS

See Lamps—Panel, Pilot & Dial

DIAL LOCKS

Berg Inc Winfred M East Rockaway NY	516-599-5010
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Jan Hardware Mfg Co Inc Long Island City NY	212-361-0800
Kulka Smith Inc Manasquan NJ	201-223-9400
National Radio Components Div Strux Corp Lindenhurst NY	516-957-8000
Sterling Instrument Div Designatronics Inc New Hyde Park NY	516-328-3300
Vemaline Prods Div O B Test Group Inc Providence RI	401-739-7600

DIAL POINTERS

ZIERICK MFG CORP MOUNT KISCO NY	914-666-2911
Berg Inc Winfred M East Rockaway NY	516-599-5010
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Jan Hardware Mfg Co Inc Long Island City NY	212-361-0800
Kaybar Corp Little Ferry NJ	201-440-3848
Malwin Electronics Corp Paterson NJ	201-881-1500
Montevideo Technology Inc Montevideo MN	612-269-6562
National Radio Components Div Strux Corp Lindenhurst NY	516-957-8000
Rogan Corp Northbrook IL	312-498-2300
Tech-Etch Inc Plymouth MA	617-747-0300
Vemaline Prods Div O B Test Group Inc Providence RI	401-739-7600
Zierick Mfg Corp Mount Kisco NY	914-666-2911

DIALS—INDICATOR TYPES (INCL. FLOATING & ROTATING)

OMEGA ENGINEERING INC STAMFORD CT	203-359-1660
ADV PG Gatefold SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips Alpha Tech Inc Riverdale NJ	201-831-1222
Bindicator Port Huron MI	313-987-2700
Devco Engineering Inc Fairfield NJ	201-228-0321
Electronic Hardware Corp Farmingdale NY	516-752-1950
Hunter Tools/Easco Hand Tools Inc Lancaster PA	717-285-4581
Jan Hardware Mfg Co Inc Long Island City NY	212-361-0800
Martin-Decker Cedar Park TX	512-331-0411
Melsey Corp Carle Place NY	516-333-0655
National Radio Components Div Strux Corp Lindenhurst NY	516-957-8000
Omega Engineering Inc Stamford CT	203-359-1660
Rogan Corp Northbrook IL	312-498-2300
Sager Hingham MA	617-749-6700
Scientific-Atlanta Inc Atlanta GA	404-441-4000

DIALS—INSTRUMENT (INCL. POINTER METER TYPES)

OMEGA ENGINEERING INC STAMFORD CT	203-359-1660
ADV PG Gatefold SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips Aerospace Knob Co Div Dupree Inc Chino CA	818-442-4700
Alpha Tech Inc Riverdale NJ	201-831-1222
Beckman Industrial Corp Brea CA	714-871-4848
Berg Inc Winfred M East Rockaway NY	516-599-5010
Davies Molding Co Harry Chicago IL	312-622-8966
Devco Engineering Inc Fairfield NJ	201-228-0321
Electronic Hardware Corp Farmingdale NY	516-752-1950
Henschel Corp Newburyport MA	617-462-2400
Jan Hardware Mfg Co Inc Long Island City NY	212-361-0800
Kaybar Corp Little Ferry NJ	201-440-3848
Kurz Instruments Inc Carmel Valley CA	408-659-3421
LFE Corp Instruments Div Clinton MA	617-835-1000
Malwin Electronics Corp Paterson NJ	201-881-1500
Martin-Decker Cedar Park TX	512-331-0411
Melsey Corp Carle Place NY	516-333-0655
Montevideo Technology Inc Montevideo MN	612-269-6562
National Radio Components Div Strux Corp Lindenhurst NY	516-957-8000
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Omega Engineering Inc Stamford CT	203-359-1660
PIC Design Middlebury CT	203-758-8272
Pioneer Instrumentation Div Pioneer Std Cleveland OH	216-587-3600
Rogan Corp Northbrook IL	312-498-2300
Sager Hingham MA	617-749-6700
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Seton Name Plate Corp New Haven CT	203-488-0085
Westmoreland Plastics Co Div Umec Corp Latrobe PA	412-539-1612

DIALS—TURNS COUNTING

Barker & Williamson Bristol PA	215-788-55
Beckman Industrial Corp Brea CA	714-871-48
Burns Inc Resistive Components Group Riverside CA	714-781-50
Clarostat Mfg Co Inc Dover NH	603-742-11
Copal Electronics Co Ltd Tokyo Japan	803-503-37
ETI Systems Oceanside CA	619-757-77
Jan Hardware Mfg Co Inc Long Island City NY	212-361-08
Litton Systems Inc Potentiometer Div Mt Vernon NY	914-664-77
Microavionics Costa Mesa CA	714-957-69
National Radio Components Div Strux Corp Lindenhurst NY	516-957-80
Spectrol Electronics Corp City of Industry CA	213-964-65
VRN International St Petersburg FL	813-347-21

DIAL WINDOWS

TECKNIT CRANFORD NJ	201-272-55
Corning Glass Works Tech Prods Div Corning NY	607-974-90
Jan Hardware Mfg Co Inc Long Island City NY	212-361-08
Metavac Inc Flushing NY	718-445-04
National Radio Components Div Strux Corp Lindenhurst NY	516-957-80
Neal Feay Co Goleta CA	805-967-45
Panelgraphic Corp West Caldwell NJ	201-227-15
Semiconductor Mfg Corp Fairfield NJ	201-227-24
Stamet Mfg Corp Fairfield NJ	201-227-24
Tecknit Cranford NJ	201-272-55
Unifab Inc Hampstead NH	603-329-82

DIAMOND ABRASIVES

See Abrasives

DIAMOND SAWS

See Diamond Wheels

DIAMOND STYLI

See Phonograph Needles

DIAMOND WHEELS

HUNTER PRODUCTS INC BRIDGEWATER NJ	201-526-84
MICROMECH MFG CORP ROSELLE NJ	201-245-05
TECIDA INC MOUNTAIN VIEW CA	415-967-28
Aremco Products Inc Ossining NY	914-762-06
Budd Cato Assoc Inc Brielle NJ	201-528-74
Hunter Products Inc Bridgewater NJ	201-526-84
Mark V Lab Inc East Granby CT	203-653-72
MDC Industries Inc Philadelphia PA	215-428-59
Metal Removal Tooling Div Federal-Mogul Corp Chicago IL	312-583-82
Micromech Mfg Corp Roselle NJ	201-245-05
Norton Co Worcester MA	617-853-10
Tecida Inc Mountain View CA	415-967-28
Universal Photonics Inc Hicksville NY	516-935-40
Valley Design Corp Littleton MA	617-486-89

DICTATION RECORDERS

See Magnetic Tape Recorders—Dictation

DIE BONDERS

See Machines, Semiconductor

Production—Bonding

DIELECTRIC HEATERS

See Heaters—Electronic

DIELECTRICS

See Dielectric Listings;

See Also Materials Reference List

DIELECTRICS—LIQUID

See Also Coolants; Transformer Oils

Bel-Ray Co Inc Farmingdale NJ	201-938-24
Coricorp Corp Northfield IL	312-441-58
CRC Chemicals USA Warminster PA	215-674-43
Dow Corning Corp Midland MI	517-496-40
Ducey Chemical Inc Princeton Junction NJ	609-799-31
Emerson & Cuming Canton MA	617-828-33
General Electric Co Silicone Prods Div Waterford NY	518-237-33
Sterling Corp Reichhold Chemicals Sewickley PA	412-766-76
SWS Silicones Corp Adrian MI	517-263-57

ELECTRICS—PERMANENTLY POLARIZED (ELECTRETS)

RNITRON PIEZOELECTRIC DIV	
BEDFORD OH	216-232-8600
ADV PG 82	
Alfa Industries Inc Woburn MA	617-935-5150
Rnitrone Piezoelectric Div Bedford OH	216-232-8600

ELECTRIC TESTERS

See Testers—Capacitor & Dielectric

ELECTROMETERS

See Microwave Dielectrometers

IES

Accurate Electronics Corp Elyria OH	216-365-1211
Ame Model Engineering Co Ridgefield NJ	201-943-7650
Atosplice Inc Woodside NY	718-429-0500
n-Tron Mfg Inc Owensboro KY	502-684-0431
ngs Electronics Co Inc Tuckahoe NY	914-793-5000
as Corp Fairless Hills PA	215-736-0981
ar Siegler Inc Santa Monica CA	213-452-5444
l Corp Ivyland PA	215-355-3110
co Graphite Inc Decatur TX	817-627-2121
hco Plastic Co Chicago IL	312-539-4080
berg & Son Inc Cranston RI	401-461-8220
KG Associates Inc Norwell MA	617-878-7250
ppitt Akron NY	716-542-4511

DIFFERENTIAL AMPLIFIERS

See Amplifiers—Instrumentation

DIFFERENTIAL ANALYZERS

See Computers—Differential Analyzer

DIGITAL CIRCUITS

See Type Desired (Amplifiers; Converters; Modules; etc.)

See Also ICs Listings

DIGITAL CLOCKS

See Clocks

DIGITAL EQUIPMENT

See Communications Equipment; Data Processing Equipment and Instruments & Accessories

Reference Lists

DIGITIZER—ARTWORK PREPARATION SERVICES

ME ZERO CORP CLIFTON NJ	201-340-0400
gn-Rite Corp Burbank CA	213-843-7220
illed Image Inc Rochester NY	716-482-0300
hop Graphics Inc Westlake Village CA	818-991-2600
orus Data Systems Merrimack NH	603-424-2900
ntrol Technology Div AirBorn Elect Corp	
Garland TX	214-272-5544
lustrial Vision Systems Inc Lowell MA	617-459-9000
monics Corp Lansdale PA	215-362-2766
rtifab Inc Phoenix AZ	602-271-0921
otronic Labs Inc Brookfield Center CT	203-775-0465
mmil CAD Corp Houston TX	713-440-1468
ne Zero Corp Clifton NJ	201-340-0400

DIGITIZERS—ARTWORK

See Also Photomask Pattern Generators

ME ZERO CORP CLIFTON NJ	201-340-0400
ek Corp Silver Spring MD	301-622-3906
iplicon Ann Arbor MI	313-995-6000
itologic Inc Newbury Park CA	805-498-9611
lCorp Anaheim CA	714-821-2000
lorado Video Inc Boulder CO	303-444-3972
mputer Talk Inc Morrison CO	303-697-5485
IC (Development Assocs Controls)	
Carpinteria CA	805-684-8307
tacopy Corp. Mountain View CA	415-965-7900
raphics Inc Oak Ridge TN	615-482-4100
ber Scientific Instrument Co	
South Windsor CT	203-644-1551
CO Corp Rockville MD	301-279-9550
uston Instrument Austin TX	512-835-0900
lustrial Vision Systems Inc Lowell MA	617-459-9000
an-Graphics Inc Broomall PA	215-328-1040
ience Accessories Corp Southport CT	203-255-1526
cker & Yale Inc Beverly MA	617-927-3940
mmagraphics Corp Fairfield CT	203-384-1344
mmil CAD Corp Houston TX	713-440-1468
ne Zero Corp Clifton NJ	201-340-0400

Addresses, phones & sales offices, see green pages

DIMENSION CONTROLS

See Controls

DIMENSION GAGES

See Gages

DIODE ARRAYS—MONOLITHIC (EXCEPT OPTOELECTRONIC)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Alpha Industries Inc Woburn MA	617-935-5150
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Computer Optical Products Inc	
Chatsworth CA	818-882-0424
Dionics Inc Westbury NY	516-997-7474
Ferranti Electric Inc Semi-Conductor Group	
Commack NY	516-543-0200
Infrared Industries Inc Detector Div	
Orlando FL	305-282-7700
Lansdale Semiconductor Phoenix AZ	602-269-6262
MCE Semiconductor Inc West Palm Beach FL	305-845-2837
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
Solltron Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Sprague Electric Co Lexington MA	617-862-5500
Texas Instruments Optoelectronics Dallas TX	214-995-6611
White Technology Inc Phoenix AZ	602-437-1520

DIODE ATTENUATORS

See Attenuators—P-I-N Diode

DIODE HOLDERS (EXCEPT MICROWAVE MOUNTS)

KEYSTONE ELECTRONICS CORP	
NEW YORK NY	212-475-4600
Accessories for Electronics Inc Baldwin NY	516-546-1751
Accurate Electronics Corp Elyria OH	216-365-1211
Argent Industries Inc Englewood OH	513-836-8633
Blvar Inc Irvine CA	714-951-8808
Impex Div National Lock Corp	
Crawfordsville IN	317-362-0800
KDI Electronics Inc Whippany NJ	201-887-8100
Keystone Electronics Corp New York NY	212-475-4600
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
National Beryllia Div/General Ceramics Inc	
Haskell NJ	201-839-1600
Schroff Inc Warwick RI	401-312-3770
Sealectro Corp Trumbull CT	203-372-4118

DIODE MANUFACTURING MACHINES

See Machines, Semiconductor Production

DIODE MATRIX ASSEMBLIES

AEG CORPORATION SOMERVILLE NJ	201-722-9800
MICROSEMI CORP SANTA ANA CA	714-979-8220
ADV PG 162	
AEG Corporation Somerville NJ	201-722-9800
Kings Electronics Co Inc Tuckahoe NY	914-793-5000
K & M Electronics Inc West Springfield MA	413-781-1350
LVC Industries Inc Co-Ord Switch Div	
Freeport NY	516-868-1900
MCE Semiconductor Inc West Palm Beach FL	305-845-2837
Microsemi Corp Santa Ana CA	714-979-8220
Promax-Johnston Electronic Corp Seal Beach	213-594-4557
Semtech Corp Newbury Park CA	213-628-5392
Sensitron Semiconductor Div RSM Electron Power Inc	
Deer Park NY	516-586-7600
Teledyne Microelectronics Los Angeles CA	213-870-9831
Texas Instruments Optoelectronics Dallas TX	214-995-6611

DIODE PACKAGE PARTS

See Package Parts

DIODE RECTIFIER ASSEMBLIES

See Rectifiers

DIODES—AVALANCHE BREAKDOWN

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ADV PG 163	
AMERICAN MICROSEMICONDUCTOR INC	
MADISON NJ	201-377-9566
ADV PG 162	
CLARE DIV GENERAL INSTRUMENT CORP	
CHICAGO IL	312-262-7700
EDAL INDUSTRIES INC EAST HAVEN CT	203-467-2591
ELECTRONIC DEVICES INC YONKERS NY	914-YO5-4400
MICROSEMI CORP SANTA ANA CA	714-979-8220
ADV PG 162	
PHILIPS ECG INC WALTHAM MA	617-890-6107
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
VOLTAGE MULTIPLIERS INC VISALIA CA	209-651-1402
ADV PG 387	

AEG Corporation Somerville NJ	201-722-9800
Alpha Industries Inc Woburn MA	617-935-5150
American Microsemiconductor Inc	
Madison NJ	201-377-9566
American Power Devices Inc Andover MA	617-475-4074
Amperex Electronic Corp Smithfield RI	401-762-3800
Argent Industries Inc Englewood OH	513-836-8633
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Clare Div General Instrument Corp Chicago IL	312-262-7700
Conditioning Semiconductor Devices Corp	
Wayne NJ	201-335-6723
Edal Industries Inc East Haven CT	203-467-2591
Electronic Devices Inc Yonkers NY	914-YO5-4400
General Diode Corp Framingham MA	617-879-0880
General Instrument Corp Discrete Semiconductor Div	
Hicksville NY	516-933-3333
General Semiconductor Industries Inc	
Tempe AZ	602-968-3101
Holmes Co Carl E Los Angeles CA	213-256-2255
Hughes Aircraft Co Microwave Prods Div	
Torrance CA	213-517-6400
M/A-COM Semiconductor Prods Inc	
Burlington MA	617-272-3000
Microsemi Corp Santa Ana CA	714-979-8220
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
New Jersey Semi-Conductor Products Inc	
Springfield NJ	201-376-2922
Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Promax-Johnston Electronic Corp Seal Beach	213-594-4557
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Semicon Components Inc Burlington MA	617-272-9015
Semiconductor Div Frequency Sources Inc	
Chelmsford MA	617-256-8101
Semikron Inc Hudson NH	603-883-8102
Semtech Corp Newbury Park CA	213-628-5392
Sensitron Semiconductor Div RSM Electron Power Inc	
Deer Park NY	516-586-7600
Shokai Far East Ltd Hartsdale NY	914-681-0700
Solid State Devices Inc La Mirada CA	213-921-9660
Solltron Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
S T Semicon Inc Bloomington IN	812-332-1435
Texas Instruments Optoelectronics Dallas TX	214-995-6611
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
Varo Semiconductor Inc Garland TX	214-487-4300
Voltage Multipliers Inc Visalia CA	209-651-1402

DIODES—BACKWARD

AMERICAN MICROSEMICONDUCTOR INC	
MADISON NJ	201-377-9566
ADV PG 162	
MICROSEMI CORP SANTA ANA CA	714-979-8220
ADV PG 162	
American Microsemiconductor Inc	
Madison NJ	201-377-9566
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Codi Semiconductor Inc Kenilworth NJ	201-298-0400
Custom Components Inc Lebanon NJ	201-534-6151
General Diode Corp Framingham MA	617-879-0880
M/A-COM Semiconductor Prods Inc	
Burlington MA	617-272-3000
Metelcos Corp Sunnyvale CA	408-737-8181
Microsemi Corp Santa Ana CA	714-979-8220
New Jersey Semi-Conductor Products Inc	
Springfield NJ	201-376-2922
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
S T Semicon Inc Bloomington IN	812-332-1435
TRW Microwave Sunnyvale CA	408-732-0880

DIODES—CHIPS, MOUNTED FOR ICs (CHANNEL MOUNT, LID. ETC.)

AMERICAN MICROSEMICONDUCTOR INC	
MADISON NJ	201-377-9566
ADV PG 162	
MICROSEMI CORP SANTA ANA CA	714-979-8220
ADV PG 162	
American Microsemiconductor Inc	
Madison NJ	201-377-9566
American Power Devices Inc Andover MA	617-475-4074
Amperex Electronic Corp Smithfield RI	401-762-3800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Cherry Semiconductor Corp E Greenwich RI	401-885-3600
Diodes Inc Chatsworth CA	818-882-4920
Dionics Inc Westbury NY	516-997-7474
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Ferranti Electric Inc Semi-Conductor Group	
Commack NY	516-543-0200
General Diode Corp Framingham MA	617-879-0880
M/A-COM Semiconductor Prods Inc	
Burlington MA	617-272-3000
MCE Semiconductor Inc West Palm Beach FL	305-845-2837
Microsemi Corp Santa Ana CA	714-979-8220
Promax-Johnston Electronic Corp Seal Beach	213-594-4557
Semiconductor Div Frequency Sources Inc	
Chelmsford MA	617-256-8101
Solid State Devices Inc La Mirada CA	213-921-9660
Solltron Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Teledyne Crystalonics Cambridge MA	617-491-1670
TRW Microwave Sunnyvale CA	408-732-0880
Varo Semiconductor Inc Garland TX	214-487-4300

DIODES—ELECTROLUMINESCENT

Bolotin Assocs Inc Woodland Hills CA	213-340-8552
General Diode Corp Framingham MA	617-879-0880
Hewlett-Packard Palo Alto CA	415-857-8000

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MADISON NJ.....	201-377-9566
ADV PG 000	
American Microsemiconductor Inc	
Madison NJ.....	201-377-9566
American Power Devices Inc Andover MA.....	617-475-4074
Argent Industries Inc Englewood OH.....	513-836-8633
Bolotin Assocs Inc Woodland Hills CA.....	213-340-8552
General Diode Corp Framingham MA.....	617-879-0880
Microwave Diode Corp W Stewartstown NH.....	603-246-3362
New Jersey Semi-Conductor Products Inc	
Springfield NJ.....	201-376-2922
Semiconductor Products Inc Lawrence MA.....	617-686-0197
United Detector Technology Hawthorne CA.....	213-978-0516

DIODES—GERMANIUM (EXCEPT MICROWAVE & RECTIFIER)

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
ADV PG 163	
AMERICAN MICROSEMICONDUCTOR INC	
MADISON NJ.....	201-377-9566
ADV PG 162	
INTERNATIONAL COMPONENTS CORP	
MELVILLE NY.....	516-293-1500
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ.....	201-291-1600
MOUSER ELECTRONICS MANSFIELD TX.....	817-483-0165
PHILIPS ECG INC WALTHAM MA.....	617-890-6107
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA.....	818-993-8257
AEG Corporation Somerville NJ.....	201-722-9800
American Microsemiconductor Inc	
Madison NJ.....	201-377-9566
Amperex Electronic Corp Smithfield RI.....	401-762-3800
Bolotin Assocs Inc Woodland Hills CA.....	213-340-8552
Codi Semiconductor Inc Kenilworth NJ.....	201-298-0400
General Diode Corp Framingham MA.....	617-879-0880
International Components Corp Melville NY.....	516-293-1500
Lectron Industries Inc Roselle NJ.....	201-245-5858
Mercury Electronic Co Atlantic Highlands NJ.....	201-291-1600
Microwave Diode Corp W Stewartstown NH.....	603-246-3362
Mouser Electronics Mansfield TX.....	817-483-0165
New Jersey Semi-Conductor Products Inc	
Springfield NJ.....	201-376-2922
NTE Electronics Inc Bloomfield NJ.....	201-748-5089
Philips ECG Inc Waltham MA.....	617-890-6107
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands.....	040791111
Semiconductor Products Inc Lawrence MA.....	617-686-0197
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Solid State Electronics Corp Northridge CA.....	818-993-8257
Stetron International Inc Buffalo NY.....	716-854-3443
Workman Electronic Products Inc	
Sarasota FL.....	800-237-6666

DIODES—GLASSY SEMICONDUCTOR

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
ADV PG 163	
AMERICAN MICROSEMICONDUCTOR INC	
MADISON NJ.....	201-377-9566
ADV PG 162	
FAGOR ELECTRONIC COMPONENTS INC	
CANOGA PARK CA.....	818-718-2500
ADV PG 165	
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ.....	201-291-1600
MICROSEMI CORP SANTA ANA CA.....	714-979-8220
ADV PG 162	
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA.....	818-993-8257
VOLTAGE MULTIPLIERS INC VISALIA CA.....	209-651-1402
ADV PG 387	
AEG Corporation Somerville NJ.....	201-722-9800
Alpha Industries Inc Woburn MA.....	617-935-5150
American Microsemiconductor Inc	
Madison NJ.....	201-377-9566
American Power Devices Inc Andover MA.....	617-475-4074
Argent Industries Inc Englewood OH.....	513-836-8633
Bolotin Assocs Inc Woodland Hills CA.....	213-340-8552
Codi Semiconductor Inc Kenilworth NJ.....	201-298-0400
Diodes Inc Chatsworth CA.....	818-882-4920
Fagor Electronic Components Inc	
Canoga Park CA.....	818-718-2500
ITT Semiconductors Lawrence MA.....	617-688-1881
Lectron Industries Inc Roselle NJ.....	201-245-5858
Mercury Electronic Co Atlantic Highlands NJ.....	201-291-1600
Microsemi Corp Santa Ana CA.....	714-979-8220
Motorola Semiconductor Products Inc	
Phoenix AZ.....	602-244-6900
New Jersey Semi-Conductor Products Inc	
Springfield NJ.....	201-376-2922
Promax-Johnston Electronic Corp Seal Beach.....	213-594-4557
Semiconductor Div Frequency Sources Inc	
Chelmsford MA.....	617-256-8101
Semtech Corp Newbury Park CA.....	213-628-5392
Sensitron Semiconductor Div RSM Electron Power Inc	
Deer Park NY.....	516-586-7600
Solid State Devices Inc La Mirada CA.....	213-921-9660
Solid State Electronics Corp Northridge CA.....	818-993-8257
Voltage Multipliers Inc Visalia CA.....	209-651-1402

DIODES—HOT CARRIER (SCHOTTKY—BARRIER)

INTERNATIONAL RECTIFIER SEMICONDUCTOR DIV	
EL SEGUNDO CA.....	213-772-2000
PHILIPS ECG INC WALTHAM MA.....	617-890-6107

Advanced Semiconductor Inc	
North Hollywood CA.....	818-982-12
Alpha Industries Inc Woburn MA.....	617-935-51
Bolotin Assocs Inc Woodland Hills CA.....	213-340-85
Collmer Semiconductor Inc Dallas TX.....	214-233-15
Custom Components Inc Lebanon NJ.....	201-534-61
Diodes Inc Chatsworth CA.....	818-882-49
Ferranti Electric Inc Semi-Conductor Group	
Commack NY.....	516-543-02
General Diode Corp Framingham MA.....	617-879-08
General Instrument Corp Discrete Semiconductor Div	
Hicksville NY.....	516-933-33
Hewlett-Packard Palo Alto CA.....	415-857-80
International Rectifier Semiconductor Div	
El Segundo CA.....	213-772-20
ITT Semiconductors Lawrence MA.....	617-688-18
Lectron Industries Inc Roselle NJ.....	201-245-58
M/A-COM Advanced Semiconductor Oper	
Burlington MA.....	617-272-30
M/A-COM Semiconductor Prods Inc	
Burlington MA.....	617-272-30
Metelics Corp Sunnyvale CA.....	408-737-81
Microwave Semiconductor Corp Somerset NJ.....	201-469-33
Motorola Semiconductor Products Inc	
Phoenix AZ.....	602-244-69
New Jersey Semi-Conductor Products Inc	
Springfield NJ.....	201-376-29
Oltronics Inc Cambridge MA.....	617-354-65
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International Components Corp Melville NY.....	516-293-1500
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Micromini Corp Santa Ana CA.....	714-979-8220
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 Data-Control Systems A CompuDyne Co
 Rockville MD..... 301-279-87
 Electrac Inc Anaheim CA..... 714-879-60
 Fairchild Weston Systems Inc Sarasota FL..... 813-371-08
 KVG Fort Lauderdale FL..... 305-771-321
 MITEQ Inc Hauppauge NY..... 516-543-88
 Novadyne Inc Fountain Valley CA..... 714-898-53
 Oklahoma Aerotronics Inc Hartshorne OK..... 918-297-25
 Piezo Technology Inc Orlando FL..... 305-298-20
 Radio Television Products Corp Douglas AZ..... 602-364-44
 RHG Electronics Lab Inc Deer Park NY..... 516-242-11
 Solid State Electronics Corp Northridge CA..... 818-993-82
 Sonex Corp Philadelphia PA..... 215-533-49
 Sprengner Instruments Inc St Louis MO..... 314-535-16
 Teledyne Geotech Garland TX..... 214-271-251
 Zeta Labs Inc Sub CCT Santa Clara CA..... 408-727-60

DISCRIMINATORS—RF

See Also Demodulators; Detectors

KVG FORT LAUDERDALE FL..... 305-771-321
ADV PG 148
SOLID STATE ELECTRONICS CORP
NORTHBRIDGE CA..... 818-993-8257
 Alpha Components Inc Mechanicsburg PA..... 717-697-81
 Alpha Industries Inc Woburn MA..... 617-935-51
 American Trans-Coil Corp Richmond Hill NY..... 718-441-52
 Anaren Microwave Inc E Syracuse NY..... 315-432-89
 Hughes Aircraft Co Microelectronic Circuits Div
 Newport Beach CA..... 714-759-24
 KVG Fort Lauderdale FL..... 305-771-321
 Lorch Electronics Corp Englewood NJ..... 201-569-82
 M/A COM Microwave Circuits Inc
 Burlington MA..... 617-272-30
 Microsonics Inc Weymouth MA..... 617-337-42
 MITEQ Inc Hauppauge NY..... 516-543-88
 The Narda Microwave Corp Hauppauge NY..... 516-231-17
 Oklahoma Aerotronics Inc Hartshorne OK..... 918-297-25
 Piezo Technology Inc Orlando FL..... 305-298-20
 Solid State Electronics Corp Northridge CA..... 818-993-82
 Triangle Microwave Inc East Hanover NJ..... 201-884-14
 Varian Electron Device Group Palo Alto CA..... 415-493-40
 Western Microwave Sunnyvale CA..... 408-734-16

DISK DRIVE ENCLOSURES

CANON USA INC ELECTRONIC COMPONENTS DIV
LAKE SUCCESS NY..... 516-488-670
INTERNATIONAL INSTRUMENTATION INC
WESTLAKE VILLAGE CA..... 818-991-961
 Axis Inc San Diego CA..... 619-560-77
 Canon USA Inc Electronic Components Div
 Lake Success NY..... 516-488-670

ORDER CATALOGS FROM THE WHITE PAGES

ntrol Data Corp Champaign IL.....	217-359-8010
mark Corp Medfield MA.....	617-359-8161
mpuPro Hayward CA.....	415-786-0909
ernational Instrumentation Inc	
Westlake Village CA.....	818-991-9614
France Corp Philadelphia PA.....	215-365-8000
sa Technology Corp Gaithersburg MD.....	800-638-2039
-Log Corp Monterey CA.....	408-372-4593
hener & Co E H Binghamton NY.....	607-772-1161

SKS & DISK EQUIPMENT

See Computers & Magnetics Listings

SPENSERS

See Adhesive Application Equipment; Potting

Compound Dispensers

DISPLAY CHARACTER DEVICES

(EXCEPT INDICATOR LIGHTS, TUBES
& TYPES LISTED BELOW)

PS ELECTRIC (USA) INC	
ROCKVILLE CENTRE NY.....	516-766-3636
ADV PG 111	
LE ELECTRONICS INC COLUMBUS DIV	
COLUMBUS NE.....	402-564-3131
INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA.....	818-991-9614
NDERS ASSOCIATES INC NASHUA NH.....	603-885-4321
craft Instruments Co Doylestown PA.....	215-348-5274
as Electric (USA) Inc Rockville Centre NY.....	516-766-3636
ckman Industrial Corp Brea CA.....	714-871-4848
mark Corp Medfield MA.....	617-359-8161
staidol Electronics Co Hudson OH.....	216-655-2429
le Electronics Inc Columbus Div	
Columbus NE.....	402-564-3131
ital Electronics Corp Hayward CA.....	415-786-0520
plays Inc Lewistown PA.....	717-242-2541
ton Corp/MSC Products Costa Mesa CA.....	714-642-2427
Industrial Electronic Engineers Inc	
Van Nuys CA.....	818-787-0311
ernational Instrumentation Inc	
Westlake Village CA.....	818-991-9614
Barton Instruments Co	
City of Industry CA.....	818-961-2547
ke Systems Corp Newton MA.....	617-244-6881
strox Electronic Systems Dorval PQ.....	514-685-2630
ntevideo Technology Inc Montevideo MN.....	612-269-6562
ional Semiconductor Corp Santa Clara CA.....	408-721-5000
il Inc Santa Clara CA.....	408-980-0591
smarc Technologies Inc Fairfield NJ.....	201-575-0870
ders Associates Inc Nashua NH.....	603-885-4321
ity Assoc Inc Tustin CA.....	714-669-9850
C Inc Tucson AZ.....	602-792-2230
edyne Microelectronics Los Angeles CA.....	213-870-9831
ne-O-Matic Inc Danville IL.....	217-442-0611
IE Inc/Planar Graphics Div Norwalk CT.....	203-838-7509

DISPLAY CHARACTER

DEVICES—ELECTROMAGNETIC &
ELECTROMECHANICAL

PS ELECTRIC (USA) INC	
ROCKVILLE CENTRE NY.....	516-766-3636
ADV PG 111	
ELECTRO NUMERICS INC IRVINE CA.....	714-250-1501
PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
rams Instrument Corp Lansing MI.....	517-332-6405
craft Instruments Co Doylestown PA.....	215-348-5274
as Electric (USA) Inc Rockville Centre NY.....	516-766-3636
ity Controls Co Wickliffe OH.....	216-585-8500
nsiltron Corp Torrance CA.....	213-618-9647
alight Corp Brooklyn NY.....	718-497-7600
ctro Numerics Inc Irvine CA.....	714-250-1501
rranti Packard Electronics Ltd	
Mississauga ON.....	416-624-3020
imes Div Midland Ross Corp Urbana OH.....	513-652-1431
E Industrial Electronic Engineers Inc	
Van Nuys CA.....	818-787-0311
novation Industries Inc Russellville AR.....	501-968-2232
lex Inc Lisle IL.....	312-969-4550
ntevideo Technology Inc Montevideo MN.....	612-269-6562
thern Precision Labs Inc Fairfield NJ.....	201-227-4800
ean Technology Inc Burbank CA.....	213-849-7111
bit Instrument Corp Hauppauge NY.....	516-435-8300
erless Radio Corp Lynbrook NY.....	516-593-2121
actical Automation Inc Shelton CT.....	203-929-5381
ne-O-Matic Inc Danville IL.....	217-442-0611
eder-Root Hartford CT.....	203-527-7201
rnitech Div Vernitron Corp Deer Park NY.....	516-586-5100

DISPLAY CHARACTER DEVICES—GAS CELL ARRAY

LE ELECTRONICS INC COLUMBUS DIV	
COLUMBUS NE.....	402-564-3131
JITSU COMPONENTS OF AMERICA INC	
SANTA CLARA CA.....	408-727-1700
PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
ckman Industrial Corp Brea CA.....	714-871-4848
le Electronics Inc Columbus Div	
Columbus NE.....	402-564-3131

Dale Electronics Ltd Scarborough ON.....	416-759-5631
Densitron Corp Torrance CA.....	213-618-9647
Displays Inc Lewistown PA.....	717-242-2541
Fujitsu Component of America Inc	
Lake Bluff IL.....	312-295-2610
Fujitsu Components of America Inc	
Santa Clara CA.....	408-727-1700
IEE Industrial Electronic Engineers Inc	
Van Nuys CA.....	818-787-0311
Panasonic Co Electronic Components Div	
Secaucus NJ.....	201-348-5200
Peerless Radio Corp Lynbrook NY.....	516-593-2121

DISPLAY CHARACTER

DEVICES—PROJECTOR LAMP
(DIGITALLY CONTROLLED)

PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
Data Control Ltd Fiberoptics Div	
Palo Alto CA.....	415-494-1350
IEE Industrial Electronic Engineers Inc	
Van Nuys CA.....	818-787-0311
Innovation Industries Inc Russellville AR.....	501-968-2232
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Shelly Assoc Inc Tustin CA.....	714-669-9850

DISPLAY CHARACTER

DEVICES—SEVEN OR MORE
SEGMENTS, ELECTROLUMINESCENT
PLATE

ALPS ELECTRIC (USA) INC	
ROCKVILLE CENTRE NY.....	516-766-3636
ADV PG 111	
DALE ELECTRONICS INC COLUMBUS DIV	
COLUMBUS NE.....	402-564-3131
PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
Alps Electric (USA) Inc Rockville Centre NY.....	516-766-3636
Cherry Electrical Products Corp Waukegan IL.....	312-662-9200
Dale Electronics Inc Columbus Div	
Columbus NE.....	402-564-3131
Digital Electronics Corp Hayward CA.....	415-786-0520
EEV Inc Elmsford NY.....	914-592-6050
Ferranti Packard Electronics Ltd	
Mississauga ON.....	416-624-3020
GTE Lighting Products Danvers MA.....	617-777-1900
Hycorn Inc Irvine CA.....	714-261-6224
Injectorall Electronics Corp Glen Cove NY.....	516-617-6010
Korrey Electronics Co Seattle WA.....	206-281-1300
NEC Electronics Inc Mtn View CA.....	415-960-6000
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands.....	040791111
Shelly Assoc Inc Tustin CA.....	714-669-9850
TEC Inc Tucson AZ.....	602-792-2230
Time-O-Matic Inc Danville IL.....	217-442-0611
Topflight Corp York PA.....	717-843-9901
UCE Inc/Planar Graphics Div Norwalk CT.....	203-838-7509
Vernitron Div Vernitron Corp Deer Park NY.....	516-586-5100

DISPLAY CHARACTER

DEVICES—SEVEN OR MORE
SEGMENTS, LAMP ARRAY

PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
WAMCO INC FOUNTAIN VALLEY CA.....	714-545-5560
Beckman Industrial Corp Brea CA.....	714-871-4848
Datatron Labs Inc Sussex NJ.....	914-856-4313
Dialight Corp Brooklyn NY.....	718-497-7600
Discon Industries Inc Pompano Beach FL.....	305-782-7424
Eaton Corp/MSC Products Costa Mesa CA.....	714-642-2427
Grimes Div Midland Ross Corp Urbana OH.....	513-652-1431
IEE Industrial Electronic Engineers Inc	
Van Nuys CA.....	818-787-0311
NEC Electronics Inc Mtn View CA.....	415-960-6000
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Plasmarc Technologies Inc Fairfield NJ.....	201-575-0870
Readouts Inc Del Mar CA.....	619-755-2641
TEC Inc Tucson AZ.....	602-792-2230
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Time-O-Matic Inc Danville IL.....	217-442-0611
Wamco Inc Fountain Valley CA.....	714-545-5560

DISPLAY CHARACTER

DEVICES—SEVEN OR MORE
SEGMENTS, LED ARRAY

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
ALMO ELECTRONICS INC	
PHILADELPHIA PA.....	215-698-4000
ADV PG Green Pages	
GENERAL INSTRUMENT/OPTOELECTRONICS DIV	
PALO ALTO CA.....	415-493-0400
MOUSER ELECTRONICS MANSFIELD TX.....	817-483-0165
PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
PHILIPS ECG INC WALTHAM MA.....	617-890-6107
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700

A C Interface Inc Huntington Beach CA.....	714-841-6090
AEG Corporation Somerville NJ.....	201-722-9800
Almo Electronics Inc Philadelphia PA.....	215-698-4000
AND Burlingame CA.....	415-347-9916
Aristo-Craft New York NY.....	212-924-4041
Cincinnati Electrosystems Inc Loveland OH.....	513-831-4347
Dale Electronics Ltd Scarborough ON.....	416-759-5631
Datatron Labs Inc Sussex NJ.....	914-856-4313
Dialight Corp Brooklyn NY.....	718-497-7600
Eaton Corp/MSC Products Costa Mesa CA.....	714-642-2427
GC Electronics Div Household Intl	
Rockford IL.....	815-968-9661
General Instrument/Optoelectronics Div	
Palo Alto CA.....	415-493-0400
Ghiemmetti Inc Los Angeles CA.....	213-463-5111
Hewlett-Packard Palo Alto CA.....	415-857-8000
IEE Industrial Electronic Engineers Inc	
Van Nuys CA.....	818-787-0311
Innovation Industries Inc Russellville AR.....	501-968-2232
Korrey Electronics Co Seattle WA.....	206-281-1300
Lectron Industries Inc Roselle NJ.....	201-245-5858
Matrox Electronic Systems Dorval PQ.....	514-685-2630
Morrison Electronics Corp Columbus OH.....	614-291-7000
Mouser Electronics Mansfield TX.....	817-483-0165
National Semiconductor Corp Santa Clara CA.....	408-721-5000
NTE Electronics Inc Bloomfield NJ.....	201-748-5089
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Philips ECG Inc Waltham MA.....	617-890-6107
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands.....	040791111
Refac Electronics Corp Winsted CT.....	203-379-2731
Sager Hingham MA.....	617-749-6700
Sanyo Semiconductor Corp Allendale NJ.....	201-825-8080
Shelly Assoc Inc Tustin CA.....	714-669-9850
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Siemens Corp Optoelectronics Div	
Cupertino CA.....	408-257-7910
TEC Inc Tucson AZ.....	602-792-2230
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Telefunken electronic Heilbronn West Germany.....	07131 8821
Texas Instruments Optoelectronics Dallas TX.....	214-995-6611
Topflight Corp York PA.....	717-843-9901

DISPLAY CHARACTER

DEVICES—SOLID-STATE SCANNED
ARRAYS (INCL. 5X7 LED ARRAYS)

ALMO ELECTRONICS INC	
PHILADELPHIA PA.....	215-698-4000
ADV PG Green Pages	
GENERAL INSTRUMENT/OPTOELECTRONICS DIV	
PALO ALTO CA.....	415-493-0400
PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
A C Interface Inc Huntington Beach CA.....	714-841-6090
Almo Electronics Inc Philadelphia PA.....	215-698-4000
AND Burlingame CA.....	415-347-9916
Bayside Controls Clifton NJ.....	201-778-6611
Cherry Electrical Products Corp Waukegan IL.....	312-662-9200
Cybernetic Micro Systems Inc	
San Gregorio CA.....	415-726-3000
Datatron Labs Inc Sussex NJ.....	914-856-4313
Dialight Corp Brooklyn NY.....	718-497-7600
Digital Electronics Corp Hayward CA.....	415-786-0520
Displays Inc Lewistown PA.....	717-242-2541
Eaton Corp/MSC Products Costa Mesa CA.....	714-642-2427
General Instrument/Optoelectronics Div	
Palo Alto CA.....	415-493-0400
Hewlett-Packard Palo Alto CA.....	415-857-8000
IEE Industrial Electronic Engineers Inc	
Van Nuys CA.....	818-787-0311
Matrox Electronic Systems Dorval PQ.....	514-685-2630
Morrison Electronics Corp Columbus OH.....	614-291-7000
Optical Coating Lab Inc Santa Rosa CA.....	707-545-6440
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands.....	040791111
Refac Electronics Corp Winsted CT.....	203-379-2731
Siemens Corp Optoelectronics Div	
Cupertino CA.....	408-257-7910
SPC Technology Bensenville IL.....	312-766-6711
TEC Inc Tucson AZ.....	602-792-2230
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Texas Instruments Optoelectronics Dallas TX.....	214-995-6611
Time-O-Matic Inc Danville IL.....	217-442-0611
UCE Inc/Planar Graphics Div Norwalk CT.....	203-838-7509

DISPLAY DRIVERS (EXCEPT IC DEVICES)

Automation Displays Inc Eau Claire WI.....	715-834-9595
Aydin Controls Ft Washington PA.....	215-542-7800
CELCO (Constantine Engineering Labs Co)	
Mahwah NJ.....	201-327-1123
Densitron Corp Torrance CA.....	213-618-9647
Dialight Corp Brooklyn NY.....	718-497-7600
Dionics Inc Westbury NY.....	516-997-7474
Discon Industries Inc Pompano Beach FL.....	305-782-7424
Entrelev Div Cogentel Inc Spring Valley NY.....	800-431-2308
Hewlett-Packard Palo Alto CA.....	415-857-8000
Hughes Aircraft Co Microelectronic Circuits Div	
Newport Beach CA.....	714-759-2411
IEE Industrial Electronic Engineers Inc	
Van Nuys CA.....	818-787-0311
Kinetic Systems Corp Lockport IL.....	815-838-0005
Shelly Assoc Inc Tustin CA.....	714-669-9850
Show 'N Tell Products Div AMG Inc	
Dayton OH.....	513-223-8211
Systems Research Labs Inc Dayton OH.....	513-426-6000
TEC Inc Tucson AZ.....	602-792-2230
Teledyne Microelectronics Los Angeles CA.....	213-870-9831

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800-922-0460 919-846-1633

DISPLAY INDICATOR LIGHTS

See Indicator Lights—Multilight Readout Assemblies

DISPLAY

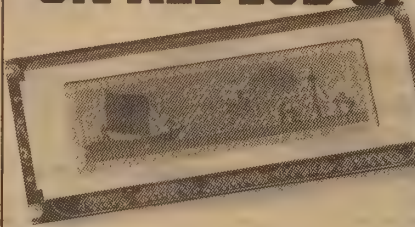
MODULES—ELECTROMAGNETIC & ELECTROMECHANICAL

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ELECTRO NUMERICS INC IRVINE CA	714-250-1501
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Aircraft Instruments Co Doylestown PA	215-348-5274
Bayley Controls Co Wickliffe OH	216-585-8500
Bowmar Instrument Corp Ft Wayne Div	
Ft Wayne IN	219-747-3121
CELCO (Constantine Engineering Labs Co)	
Mahwah NJ	201-327-1123
Control Technology Co Inc	
Long Island City NY	718-361-2133
Densitron Corp Torrance CA	213-618-9647
Dialight Corp Brooklyn NY	718-497-7800
Electro Numerics Inc Irvine CA	714-250-1501
Ferranti Packard Electronics Ltd	
Mississauga ON	416-624-3020
IEE Industrial Electronic Engineers Inc	
Van Nuys CA	818-787-0311
Luminator Div Gulton Industries Plano TX	214-424-6511
LVC Industries Inc Co-Ord Switch Div	
Freeport NY	516-868-1900
Montevideo Technology Inc Montevideo MN	612-269-6562
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Orbit Instrument Corp Hauppauge NY	516-435-8300
Peerless Radio Corp Lynbrook NY	516-593-2121
Practical Automation Inc Shelton CT	203-929-5381
Staver Co Inc Bay Shore NY	516-666-8000
Thomson CSF Inc White Plains NY	914-694-4450
Time-O-Matic Inc Danville IL	217-442-0611
Transcoil Inc Worcester PA	215-277-1300
Veeder-Root Hartford CT	203-527-7201
Vernitron Div Vernitron Corp Deer Park NY	516-586-5100

DISPLAY MODULES—GAS CELL

CANYON ELECTRONICS INC PHOENIX AZ	602-944-4421
ADV PG 169	
DALE ELECTRONICS INC COLUMBUS DIV	
COLUMBUS NE	402-564-3131
Beckman Industrial Corp Brea CA	714-871-4848
Canyon Electronics Inc Phoenix AZ	602-944-4421

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Telex 880165

Dale Electronics Inc Columbus Div	
Columbus NE	402-564-3131
Datatron Labs Inc Sussex NJ	914-856-43
Densitron Corp Torrance CA	213-618-96
Displays Inc Lewistown PA	717-242-25
IEE Industrial Electronic Engineers Inc	
Van Nuys CA	818-787-03
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	0407911

DISPLAY MODULES—INDICATOR TUBE

COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-33
Computer Conversions Corp	
East Northport NY	516-261-33
Datatron Labs Inc Sussex NJ	914-856-43
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	0407911

DISPLAY MODULES—LIQUID CRYSTAL (WITH OR WITHOUT DECODER- DRIVER)

AEG CORPORATION SOMERVILLE NJ	201-722-98
ALMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-40
ADV PG Green Pages	
ALPS ELECTRIC (USA) INC	
ROCKVILLE CENTRE NY	516-766-36
ADV PG 111	
EXCEL TECHNOLOGY INTERNATIONAL CORP	
BELLE MEAD NJ	201-874-47
ADV PG 169	
HANDOK CALIFORNIA CO., LTD.	
SANTA CLARA CA	408-736-31
ADV PG 168	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-21
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-67
ADV PGS Green Pages/Footstrips	
A C Interface Inc Huntington Beach CA	714-841-60
AEG Corporation Somerville NJ	201-722-98
Almo Electronics Inc Philadelphia PA	215-698-40
Alps Electric (USA) Inc Rockville Centre NY	516-766-36
Amperex Electronic Corp Smithfield RI	401-762-38
Anasco Corp Wakefield MA	617-246-33
AND Burlingame CA	415-347-99
Atomergic Chemetals Corp Plainview NY	516-349-88
Borg Instruments Inc Delavan WI	414-728-55
Crystaloid Electronics Co Hudson OH	216-655-24
C-Tek Inc Wakefield MA	617-246-11
Data Images Inc Ottawa ON	613-744-37
Densitron Corp Torrance CA	213-618-96
EEV Inc Elmsford NY	914-592-60
Electronic Display Systems Inc Hatfield PA	215-822-60
Excel Technology International Corp	
Belle Mead NJ	201-874-47
Extech Instruments & Cont Div Waltham MA	617-890-74
Fema Electronics Corp East Brunswick NJ	201-238-12
Hamlin Inc Lake Mills WI	414-648-23
Handok California Co., Ltd. Santa Clara CA	408-736-31
Hewlett-Packard Palo Alto CA	415-857-80
IEE Industrial Electronic Engineers Inc	
Van Nuys CA	818-787-03
Lectron Industries Inc Roselle NJ	201-245-58
Nova-Tronix Inc Santa Clara CA	408-727-95
Panelvision Pittsburgh PA	412-963-96
PCI Inc Santa Clara CA	408-980-05
Peerless Radio Corp Lynbrook NY	516-593-21
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	0407911
Polytronix Inc Richardson TX	214-238-70
Refac Electronics Corp Winsted CT	203-379-27
Sager Hingham MA	617-749-67
Sanyo Semiconductor Corp Allendale NJ	201-825-88
Seiko Instruments & Electronics Ltd	
Tokyo Japan	3-682-11
Seiko Instruments USA Inc Torrance CA	213-530-87
Shelly Assoc Inc Tustin CA	714-669-98
Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-23
Teledyne Microelectronics Los Angeles CA	213-870-98
UCE Inc/Planar Graphics Div Norwalk CT	203-838-75
VL Electronics Inc Los Angeles CA	213-661-88

DISPLAY MODULES—SEVEN OR MORE SEGMENTS (INCL. ELECTROLUMINESCENT PLATE, LAMP OR LED CHARACTERS)

AEG CORPORATION SOMERVILLE NJ	201-722-98
ALMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-40
ADV PG Green Pages	
CANYON ELECTRONICS INC PHOENIX AZ	602-944-44
ADV PG 169	
DALE ELECTRONICS INC COLUMBUS DIV	
COLUMBUS NE	402-564-31
EXCEL TECHNOLOGY INTERNATIONAL CORP	
BELLE MEAD NJ	201-874-47
ADV PG 169	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-21
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-67
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-07
WAMCO INC FOUNTAIN VALLEY CA	714-545-55
A C Interface Inc Huntington Beach CA	714-841-60

EG Corporation Somerville NJ.....	201-722-9800
Imo Electronics Inc Philadelphia PA.....	215-698-4000
IND Burlingame CA.....	415-347-9916
Jackman Industrial Corp Brea CA.....	714-871-4848
Janyon Electronics Inc Phoenix AZ.....	602-944-4421
J-Tek Inc Wakefield MA.....	617-246-1720
Jale Electronics Inc Columbus Div.....	
Columbus NE.....	402-564-3131
Jatran Labs Inc Sussex NJ.....	914-866-4313
Jaytron Corp Miamisburg OH.....	513-866-3300
Jensitron Corp Torrance CA.....	213-618-9647
Jalight Corp Brooklyn NY.....	718-497-7600
Jigital Electronics Corp Hayward CA.....	415-786-0520
Jison Industries Inc Pompano Beach FL.....	305-782-7424
Jurgin & Browne Inc S Burlington VT.....	802-863-6873
Jaton Corp/MSC Products Costa Mesa CA.....	714-642-2427
Jxcel Technology International Corp.....	
Belle Mead NJ.....	201-874-4747
ema Electronics Corp East Brunswick NJ.....	201-238-1223
Inlux Inc Cupertino CA.....	408-725-1972
JTE Lighting Products Danvers MA.....	617-777-1900
Jamiln Inc Lake Mills WI.....	414-648-2361
Jewlett-Packard Palo Alto CA.....	415-857-8000
Hi-Tech Components/Mitsubishi Intl.....	
New York NY.....	212-605-2607
Joneycomb Systems Inc Biddeford ME.....	207-282-1521
Jter-Market Inc Glenview IL.....	312-729-5330
Jterswitch Div Wm J Purdy Co.....	
Burlingame CA.....	415-347-8217
KL Components Corp Pacoima CA.....	818-896-0019
Jorry Electronics Co Seattle WA.....	206-281-1300
Jectron Industries Inc Roselle NJ.....	201-245-5858
Jorisson Electronics Corp Columbus OH.....	614-291-7000
Jational Semiconductor Corp Santa Clara CA.....	408-721-5000
Jearless Radio Corp Lynbrook NY.....	516-593-2121
Jhilips Electronic Comps & Mats Div.....	
Eindhoven Netherlands.....	040791111
Jho-Tronics Div E R Wagner Mfg Co.....	
Milwaukee WI.....	414-355-6704
Jeadouts Inc Del Mar CA.....	619-755-2641
Jefac Electronics Corp Winsted CT.....	203-379-2731
Jager Hingham MA.....	617-749-6700
Janyo Semiconductor Corp Allendale NJ.....	201-825-8080
Jokai Far East Ltd Hartsdale NY.....	914-681-0700
JEC Inc Tucson AZ.....	602-792-2230
Jedyne Microelectronics Los Angeles CA.....	213-870-9831
Jelisis Controls Corp Chillicothe OH.....	614-642-3200
Jexas Instruments Optoelectronics Dallas TX.....	214-995-6611
Jime-O-Matic Inc Danville IL.....	217-442-0611
Janscoil Inc Worcester PA.....	215-277-1300
JCE Inc/Planar Graphics Div Norwalk CT.....	203-838-7509
JL Electronics Inc Los Angeles CA.....	213-661-8883
Jamco Inc Fountain Valley CA.....	714-545-5560

DISPLAY MODULES—TV OR CRT (TUBE WITH DEFLECTION CIRCUITS, FOR DISPLAY TERMINALS)

EG CORPORATION SOMERVILLE NJ.....	201-722-9800
EG Corporation Somerville NJ.....	201-722-9800
Emperx Electronic Corp Smithfield RI.....	401-762-3800
Enn Arbor Terminal Inc Ann Arbor MI.....	313-663-8000
Envin/Diamond Lancaster OH.....	614-756-9222
Entronics Corp of America Milwaukee WI.....	414-447-8200
Entronics Corp North Hollywood CA.....	818-765-2645
Enyin Controls Ft Washington PA.....	215-542-7800
Enall Aerospace Systems Div Boulder CO.....	303-939-4000
Enall Electronic Systems Div Broomfield CO.....	303-460-5260
Entron Inc Mountainside NJ.....	201-233-7200
Enhu Inc/Electronics Div San Diego CA.....	619-277-6700
Eniographics Communications Corp.....	
Atlanta GA.....	404-455-3921
Enonrac Div Conrac Corp Covina CA.....	818-966-3511
Enytronic Corp Miamisburg OH.....	513-866-3300
Enotron Inc New Brighton MN.....	612-633-1742
Enctrohme Ltd Kitchener ON.....	519-744-7111
Enrterprise Systems Corp Dover NH.....	603-742-7363
Enewlett-Packard Palo Alto CA.....	415-857-8000
Enegami Electronics USA Inc Maywood NJ.....	201-368-9171
Entronics Inc Newton MA.....	617-964-4000
Enkusal International Corp Gardena CA.....	213-515-6432
Enader Instruments Corp Hauppauge NY.....	516-231-6900
Entron Electron Devices Div San Carlos CA.....	415-591-8411
Enlatrox Electronic Systems Dorval PQ.....	514-885-2630
Enltsubishi Electronics America Inc.....	
Torrance CA.....	213-515-3993
Enlorola Inc Display Systems Schaumburg IL.....	312-576-7700
Ensan Technology Inc Burbank CA.....	213-849-7111
Enhilips Electronic Comps & Mats Div.....	
Eindhoven Netherlands.....	040791111
Enrojectapix II New York NY.....	212-765-7869
Enerra Scientific Mountain View CA.....	408-745-1500
Enerry Corp Aerospace & Marine Group.....	
Phoenix AZ.....	602-869-2311
Enystems Research Labs Inc Dayton OH.....	513-426-8000
EnEC Inc Tucson AZ.....	602-792-2230
Enktronix Inc Beaverton OR.....	800-547-6711
Enomson CSF Inc White Plains NY.....	914-894-4450
Enhorn EMI Gencom Inc Fairfield NJ.....	201-575-5586
EnSD Display Products Inc Bohemia NY.....	516-589-6800
Enideo Monitors Inc Eau Claire WI.....	715-834-7785

DISPLAY OPTICS

EEERLESS RADIO CORP LYNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips.....	
AGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips.....	
American Polarizers Inc Reading PA.....	215-373-5177
ata Control Ltd Fiberoptics Div.....	
Palo Alto CA.....	415-494-1350
arrand Optical Co Inc Valhalla NY.....	914-428-6800
eeerless Radio Corp Lynbrook NY.....	516-593-2121
ager Hingham MA.....	617-749-6700

For addresses, phones & sales offices, see green pages

EXCEL Technology International Corp

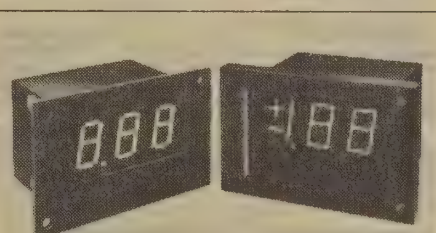
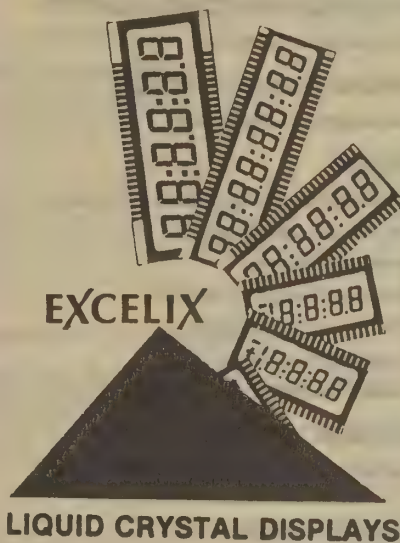
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INTERCHANGEABLE - Use LED or GAS DISCHARGE assemblies without changing panel cutout or interface connections.

MODULAR - Expandable to any number of digits. Select from 1½, 2, 2½, or 3 digit modules to provide number of digits desired.

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IC COMPATIBLE - Operates from 4 lines or bits of information in an 8-4-2-1 BCD code.



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DISPLAY PANELS, GRAPHIC—GAS CELL

AT&T COMPONENTS & ELECTRONIC SYSTEMS

ALLENTOWN PA.....	800-372-2447
DALE ELECTRONICS INC COLUMBUS DIV.....	
COLUMBUS NE.....	402-564-3131
PEERLESS RADIO CORP LYNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips.....	
Atlantic Optical Moulding Co Dudley MA.....	617-943-1746
AT & T Components & Electronic Systems.....	
Allentown PA.....	800-372-2447
Beckman Industrial Corp Brea CA.....	714-871-4848
C A M Graphics Inc Farmingdale NY.....	516-694-1315
Dale Electronics Inc Columbus Div.....	
Columbus NE.....	402-564-3131
Densitron Corp Torrance CA.....	213-618-9647
Devco Engineering Inc Fairfield NJ.....	201-228-0321
Enterprise Systems Corp Dover NH.....	603-742-7363
Hewlett-Packard Palo Alto CA.....	415-857-8000
Hi-Tech Components/Mitsubishi Intl.....	
New York NY.....	212-605-2607
Homalite Inc Wilmington DE.....	302-652-3686
IEE Industrial Electronic Engineers Inc.....	
Van Nuys CA.....	818-787-0311
Interstate Electronics Corp Anaheim CA.....	714-758-0500
NEC Electronics Inc Mtn View CA.....	415-960-6000
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Philips Electronic Comps & Mats Div.....	
Eindhoven Netherlands.....	040791111
Show 'N Tell Products Div AMG Inc.....	
Dayton OH.....	513-223-8211
Small Business Computers of New England.....	
Amherst NH.....	603-673-0228
Teledyne Microelectronics Los Angeles CA.....	213-870-9831

DISPLAY PANELS, GRAPHIC—SOLID-STATE (INCL. ELECTROLUMINESCENT)

PANELTEC INC SANTA CLARA CA.....	408-496-1175
Ball Aerospace Systems Div Boulder CO.....	303-939-4000
Beckman Industrial Corp Brea CA.....	714-871-4848
Bowmar/ALI Inc Acton MA.....	617-263-8365
Cincinnati Electrosystems Inc Loveland OH.....	513-831-4347
Densitron Corp Torrance CA.....	213-618-9647
Devco Engineering Inc Fairfield NJ.....	201-228-0321
Digital Electronics Corp Hayward CA.....	415-786-0520
Display Devices Inc Enclinitas CA.....	714-753-0113
Finlux Inc Cupertino CA.....	408-725-1972
Grimes Div Midland Ross Corp Urbana OH.....	513-652-1431
GTE Lighting Products Danvers MA.....	617-777-1900
Hewlett-Packard Palo Alto CA.....	415-857-8000
Homalite Inc Wilmington DE.....	302-652-3686
Hycom Inc Irvine CA.....	714-261-6224
IEE Industrial Electronic Engineers Inc.....	
Van Nuys CA.....	818-787-0311
Metric Systems Corp Fort Walton Beach FL.....	904-244-9600
Orbit Instrument Corp Hauppauge NY.....	516-435-8300
Paneltec Inc Santa Clara CA.....	408-496-1175
Refac Electronics Corp Winsted CT.....	203-379-2731
Show 'N Tell Products Div AMG Inc.....	
Dayton OH.....	513-223-8211
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Toplight Corp York PA.....	717-843-9901
UCE Inc/Planar Graphics Div Norwalk CT.....	203-838-7509

DISPLAYS—RADAR

See Radar Displays

DISPLAYS—TV TUBE

See Display Modules—TV; Display Terminals; TV Listings

DISPLAY SYSTEMS—BILLBOARD (INCL. STOCK-TICKER TYPES)

Automation Displays Inc Eau Claire WI.....	715-834-9595
Data Control Ltd Fiberoptics Div.....	
Palo Alto CA.....	415-494-1350
Devco Engineering Inc Fairfield NJ.....	201-228-0321
Displays Inc Lewistown PA.....	717-242-2541
Ferranti Packard Electronics Ltd.....	
Mississauga ON.....	416-624-3020
Finlux Inc Cupertino CA.....	408-725-1972
Inter-Market Inc Glenview IL.....	312-729-5330
Luminator Div Gulton Industries Plano TX.....	214-424-6511
PPM Inc Cleveland OH.....	216-292-6006
Refac Electronics Corp Winsted CT.....	203-379-2731
Time-O-Matic Inc Danville IL.....	217-442-0611
UCE Inc/Planar Graphics Div Norwalk CT.....	203-838-7509

DISPLAY SYSTEMS—CRT, AIR TRAFFIC COMMAND & CONTROL TYPES

DALE ELECTRONICS INC COLUMBUS DIV.....	
COLUMBUS NE.....	402-564-3131
SANDERS ASSOCIATES INC NASHUA NH.....	603-885-4321
Aydin Controls Ft Washington PA.....	215-542-7800
Ball Aerospace Systems Div Boulder CO.....	303-939-4000
Boeing Electronics Tukwila WA.....	206-575-5755
Cardon Electronics Div Gen Signal Corp.....	
Woodbury NY.....	516-921-7300

CELCO (Constantine Engineering Labs Co)	
Mahwah NJ	201-327-1123
Dale Electronics Inc Columbus Div	
Columbus NE	402-564-3131
Electrodynamics Inc A Talley Indus Co	
Rolling Meadows IL	312-259-0740
Electrohome Ltd Kitchener ON	519-744-7111
E-Systems Inc Garland Div Dallas TX	214-272-0515
Hazeltine Corp Commack NY	516-462-5100
Infodex Inc Waterbury CT	203-757-9291
Lear Siegler Inc Data Products Div	
Anaheim CA	714-778-3500
Lockheed Electronics Co Inc Plainfield NJ	201-757-1600
Metheus Corp Hillsboro OR	503-640-8000
Ocean Technology Inc Burbank CA	213-849-7111
Orbit Instrument Corp Hauppauge NY	516-435-8300
Panelvision Pittsburgh PA	412-963-9635
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Sanders Associates Inc Nashua NH	603-885-4321
Silver Glo Picture Tube Ltd Edmonton AB	403-474-5056
Thomson CSF Inc White Plains NY	914-694-4450
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586

DISPLAY SYSTEMS—CRT WAVEFORM (INCL. STORAGE)

Aydin Controls Ft Washington PA	215-542-7800
Ball Aerospace Systems Div Boulder CO	303-939-4000
Cardion Electronics Div Gen Signal Corp	
Woodbury NY	516-921-7300
Dataq Instruments Inc Akron OH	216-434-4284
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Electrohome Ltd Kitchener ON	519-744-7111
Hewlett-Packard Palo Alto CA	415-857-8000
Infodex Inc Waterbury CT	203-757-9291
Norland Corp Fort Atkinson WI	414-563-8456
Philips Test & Measuring Instruments Inc	
Mahwah NJ	201-529-3800
Spectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA	619-268-7100
Tektronix Inc Beaverton OR	800-547-6711
Tele Measurements Inc Clifton NJ	201-473-8822
UFI Morro Bay CA	805-772-1203

DISPLAY SYSTEMS—PROJECTION (EXCEPT TV)

SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Aydin Controls Ft Washington PA	215-542-7800
Buhl Industries Inc Fair Lawn NJ	201-423-2800
Buhl Optical Pittsburgh PA	412-321-0076
Devco Engineering Inc Fairfield NJ	201-228-0321
IEE Industrial Electronic Engineers Inc	
Van Nuys CA	818-787-0311
Infodex Inc Waterbury CT	203-757-9291
Orbit Instrument Corp Hauppauge NY	516-435-8300
Panelvision Pittsburgh PA	412-963-9635
Photomatrix Corp Santa Monica CA	213-828-9585
Projectapix II New York NY	212-765-7869
Sager Hingham MA	617-749-6700
Show 'N Tell Products Div AMG Inc	
Dayton OH	513-223-8211
Small Business Computers of New England	
Amherst NH	603-673-0228
Sony Communications Prods Co	
Park Ridge NJ	201-930-1000
Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
Sundstrand Data Control Inc Redmond WA	206-885-3711
Verticom Inc Sunnyvale CA	408-747-1222

DISPLAY SYSTEMS—PROJECTION, TV (INCL. THEATRE TV)

Cardion Electronics Div Gen Signal Corp	
Woodbury NY	516-921-7300
Electrohome Ltd Kitchener ON	519-744-7111
Projectapix II New York NY	212-765-7869
Silver Glo Picture Tube Ltd Edmonton AB	403-474-5056
Sony Communications Prods Co	
Park Ridge NJ	201-930-1000

DISPLAY TERMINALS

ADAC Corporation Woburn MA	617-935-6668
Aiden Systems Co Brockton MA	617-583-0160
AT & T Teletype Corp Skokie IL	312-982-2000
Audiotronics Corp North Hollywood CA	818-765-2645
Ball Aerospace Systems Div Boulder CO	303-939-4000
Braeger Corp Milpitas CA	408-945-1900
CalComp Anaheim CA	714-821-2000
Colorgraphics Communications Corp	
Atlanta GA	404-455-3921
Computer Talk Inc Morrison CO	303-697-5485
Data Check Corp San Diego CA	619-578-0101
Data General Corp Westboro MA	617-366-8911
Daytronic Corp Miamisburg OH	513-866-3300
Doiron Inc New Brighton MN	612-633-1742
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Enterprise Systems Corp Dover NH	603-742-7363
Fluke Mfg Co Inc John Everett WA	206-356-5400
General Digital Corp East Hartford CT	203-528-9041
Inform Computer Terminals	
Garden Grove CA	714-891-1112
Intecolor Corp Norcross GA	404-449-5961

Interstate Electronics Corp Anaheim CA	714-758-0500
Lexidata Corp Billerica MA	617-663-8550
Matrox Electronic Systems Dorval PQ	514-685-2630
Metheus Corp Hillsboro OR	503-640-8000
Motorola Inc Display Systems Schaumburg IL	312-576-7700
Paradyne Corp Largo FL	813-530-2000
Show 'N Tell Products Div AMG Inc	
Dayton OH	513-223-8211
Tandem Computers Inc Cupertino CA	408-725-6000
Teletype Corp Skokie IL	312-982-2000
TTS (Telecom Terminal Sys) Inglewood CA	213-641-8111
Video Monitors Inc Eau Claire WI	715-834-7785
Xycom Inc Saline MI	313-429-4971
Zenith Electronics Corp Sys & Comps Grp	
Glennview IL	312-391-7733

DISPLAY TUBES

See Tubes—CRT Shaped Beam & Character;

Tubes—Indicator

DISTORTION ANALYZERS & METERS

See Analyzers—Distortion

DISTRIBUTION AMPLIFIERS

See Amplifiers—Distribution

DIVIDERS

See Amplifiers, Analog Module—Nonlinear

Amplifiers—Operational

Frequency Dividers

Microwave Frequency Dividers

Microwave Power Dividers

Transformers—Special

Voltage Dividers

DOCUMENT READERS

See Computer Input Image Scanners

DOLLIES—LABORATORY & OSCILLOSCOPE

Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hewlett-Packard Palo Alto CA	415-857-8000
Hodge Mfg Co Inc Springfield MA	413-781-6800
Kikusui International Corp Gardena CA	213-515-6432
Mobile-Tronics Co Inc Tustin CA	714-546-0884
Philips Test & Measuring Instruments Inc	
Mahwah NJ	201-529-3800
Quick-Set Inc Northbrook IL	312-498-0700
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Tektronix Inc Beaverton OR	800-547-6711

DOOR CONTROLS—PHOTOELECTRIC

Automatic Timing & Controls Co	
King of Prussia PA	800-441-8245
Engineering Design Denver CO	303-427-1955
FSI/Fork Standards Inc Lombard IL	312-932-9380
Omron Electronics Inc Schaumburg IL	312-843-7900
Photobell Co Inc Fairfield NJ	201-227-3613
RIL Electronics Inc Warrington PA	215-343-5075
Robot Industries Inc Dearborn MI	313-846-2623
Scanning Devices Inc Waltham MA	617-891-8991
Simco/Ramic Corp Medford OR	503-776-9800
Xerox Inc Portland OR	503-641-9525

DOPES—SEMICONDUCTOR

See Chemicals—Semiconductor Doping

DOPPLER RADAR

See Radar Systems—Airborne

DOSIMETER CHARGERS

Baird Corp Bedford MA	617-276-6000
Collins & Assoc Don L Glendale CA	213-245-2711
RIL Electronics Inc Warrington PA	215-343-5075
The Nucleus Inc Oak Ridge TN	615-483-0008
Victoreen Inc Cleveland OH	216-795-8200

DOSIMETERS

Baird Corp Bedford MA	617-276-6000
Bruel & Kjaer Instruments Inc Marlboro MA	617-481-7000
Collins & Assoc Don L Glendale CA	213-245-2711
Du Pont De Nemours & Co Inc E I Instrument Sys	
Wilmington DE	302-772-5488
Gen Rad Inc Waltham MA	617-369-4400
Keithley Instruments Inc Cleveland OH	216-248-0400

Metrosonics Inc Rochester NY	716-334-73
Mine Safety Appliances Co Pittsburgh PA	412-273-51
Nuclear Enterprises Ltd Beenharn Reading	0734-712
RIL Electronics Inc Warrington PA	215-343-50
Simpson Electric Co Elgin IL	312-697-22
The Nucleus Inc Oak Ridge TN	615-483-00
Victoreen Inc Cleveland OH	216-795-82

DOUBLERS—FREQUENCY

See Frequency Doublers; Microwave Frequency Multipliers

DOWN CONVERTERS

See Microwave Frequency Dividers

DRAFTING SUPPLIES—ELECTRONIC PREPRINTED TITLE BLOCKS & SYMBOLS

AED Corp New Brighton MN	612-636-67
Bishop Graphics Inc Westlake Village CA	818-991-26
Keuffel & Esser Co Parsippany NJ	201-428-70
Optifab Inc Phoenix AZ	602-271-09

DRAFTING SUPPLIES—PAPER, CLOTH & FILM

KEPRO CIRCUIT SYSTEMS INC FENTON MO	314-343-16
Bishop Graphics Inc Westlake Village CA	818-991-26
Dietzgen Corp Des Plaines IL	312-635-52
Graphic Controls Corp Buffalo NY	716-853-75
Injectoral Electronics Corp Glen Cove NY	516-671-60
Keene Corp Laminates Div	
East Providence RI	401-434-23
Kepron Circuit Systems Inc Fenton MO	314-343-16
Keuffel & Esser Co Parsippany NJ	201-428-70
Optifab Inc Phoenix AZ	602-271-09

DRAFTING SUPPLIES—SYMBOL STAMPS, INK

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Kepron Circuit Systems Inc Fenton MO	314-343-16
Optifab Inc Phoenix AZ	602-271-09

DRAFTING SUPPLIES—TEMPLATES, ELECTRONIC SYMBOLS

HUNTER PRODUCTS INC BRIDGEWATER NJ	201-526-84
Abbeon Cal Inc Santa Barbara CA	805-966-08
AED Corp New Brighton MN	612-636-67
Berol USA-Rapidesign Burbank CA	213-849-50
Bishop Graphics Inc Westlake Village CA	818-991-26
Dietzgen Corp Des Plaines IL	312-635-52
Hunter Products Inc Bridgewater NJ	201-526-84
Injectoral Electronics Corp Glen Cove NY	516-671-60
Keuffel & Esser Co Parsippany NJ	201-428-70
Optifab Inc Phoenix AZ	602-271-09

DRAFTING SUPPLIES—TOOLS & EQUIPMENT

HUNTER PRODUCTS INC BRIDGEWATER NJ	201-526-84
KEPRO CIRCUIT SYSTEMS INC FENTON MO	314-343-16
AED Corp New Brighton MN	612-636-67
Bishop Graphics Inc Westlake Village CA	818-991-26
Blu-Ray Inc Essex CT	203-767-01
Clauss Cutlery Co Fremont OH	419-332-73
Dietzgen Corp Des Plaines IL	312-635-52
Eraser Co Inc The Syracuse NY	315-454-32
Hamilton Industries Two Rivers WI	414-793-11
Hodge Mfg Co Inc Springfield MA	413-781-68
Hunter Products Inc Bridgewater NJ	201-526-84
Injectoral Electronics Corp Glen Cove NY	516-671-60
Kepron Circuit Systems Inc Fenton MO	314-343-16
Keuffel & Esser Co Parsippany NJ	201-428-70
Kuhlmann America Inc Roselle IL	312-882-29
Optifab Inc Phoenix AZ	602-271-09
Starrett Co The L S Athol MA	617-249-35
Teledyne Rotolite Warren NJ	201-647-10
Xynetics Products Santa Clara CA	408-988-45
Zi-Tech Instrument Corp Palo Alto CA	415-326-21

DRILLS

See Machines—Drill Presses; Tools; Ultrasonic Equipment—Vibrators & Drills

DRIVE BELTS—DIAL

See Dial Drive Belts

DRIVE CHAINS

See Chains

RIVERS

See Amplifiers

Display Drivers

Display Modules

ICs Listings

Modules

DRIVES—VARIABLE SPEED, MECHANICAL

EG CORPORATION SOMERVILLE NJ	201-722-9800
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
EG Corporation Somerville NJ.....	201-722-9800
Autocore Industries Inc St Paul MN.....	612-642-1784
Ball Aerospace Systems Div Boulder CO.....	303-939-4000
K & B Motor & Control Corp Burlington CT.....	718-784-1313
Org Inc Winfred M East Rockaway NY.....	516-599-5010
Use Electric Equipment Corp	
Lindenhurst NY.....	516-226-2424
Control Technology Co Inc	
Long Island City NY.....	718-361-2133
Instrument Corp Smithtown NY.....	516-273-0909
Electronics Corp N Billerica MA.....	617-933-1400
Geo Corp Groton MA.....	617-448-6369
n Hardware Mfg Co Inc	
Long Island City NY.....	212-361-0800
ouis Allis Div MagneTek Inc Milwaukee WI.....	414-481-6000
cro Mo Electronics Inc St Petersburg FL.....	813-822-2529
PC Products Corp Skokie IL.....	312-673-8300
C Design Middlebury CT.....	203-758-8272
dge Tool Co Sub Emerson Elec Co	
Elyria OH.....	216-323-5581
rling Electric Inc Irvine CA.....	714-474-0520
ock Drive Products Inc Div Designatronics	
New Hyde Park NY.....	516-328-0200
ro-Max Unit Barry Wright Minneapolis MN.....	612-872-6300

PROB TESTERS

See Shock Test Equipment

DRUMS—MEMORY

See Memory Drums; Memories—Magnetic Drum

DRY BOXES & GLOVE BOXES

SEARCH INSTRUMENT CO INC	
SOUTH WINDSOR CT	203-528-9625
Control Inc Huntington Valley PA.....	215-322-5800
an Room Products Inc Ronkonkoma NY.....	516-588-7000
mpco Inc Burbank CA.....	818-841-5500
Environmental Growth Chambers	
Chagrin Falls OH.....	216-247-5100
rma Scientific Div Mallinckrodt Inc	
Marietta OH.....	614-373-4763
gh Vacuum Equipment Corp Hingham MA.....	617-749-9000
waukee Scientific Equip Corp Flex Furniture Div	
Plainville MI.....	616-685-6831
ngston Metal Specialties Kingston PA.....	717-288-5411
k & Blum Mfg Co Cincinnati OH.....	513-351-1400
search Instrument Co Inc	
South Windsor CT.....	203-528-9625
ild State Equipment Corp	
Fort Washington PA.....	215-643-7900
omson General Inc Woburn MA.....	617-933-1010
uum Atmospheres Co Inc Hawthorne CA.....	213-644-0251
uum Industries Inc Somerville MA.....	617-666-5450

DUCTS—VENTILATION

haust Co Div Callahan Mining Corp	
Amesbury MA.....	617-388-9700
vel Plastics Inc Easton PA.....	215-252-7355
k & Blum Mfg Co Cincinnati OH.....	513-351-1400
hill Rubber Co Brea CA.....	714-529-4901
it Div Donaldson Co Inc Minneapolis MN.....	612-887-3900

DUCTS—WIRING

dy Co W H Industrial Prods Div	
Milwaukee WI.....	414-351-6630
K Inc St Charles IL.....	312-377-2575
trovert Inc Indus Elec & Elctn Prods	
Limsford NY.....	914-592-7322
relec Div Cogener Inc Spring Valley NY.....	800-431-2308
rfman Engineering Co Div Fed Cartridge Corp	
Anoka MN.....	612-421-2240
duit Corp Tinley Park IL.....	312-532-1800
C Technology Bensenville IL.....	312-766-6711
are D Co Palatine IL.....	312-397-2600
dsworth Electric Mfg Co Inc Covington KY.....	606-431-0900
emold Co The West Hartford CT.....	203-233-6251
pertubing Co Los Angeles CA.....	213-321-3901

DUMMY LOADS

See Terminations

DUPLEXERS—MICROWAVE

See Microwave Duplexers

DUPLEXERS—MOBILE COMMUNICATIONS

Celwave R F Marlboro NJ.....	201-462-1880
Decibel Products Inc Dallas TX.....	214-631-0310
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Merrimac Industries Inc West Caldwell NJ.....	201-575-1300
P G Electronics Ltd Weston ON.....	416-741-7682
Sinclair Radio Labs Inc Tonawanda NY.....	716-874-3682
Wacom Products Inc Waco TX.....	817-848-4435

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COIL WINDING EQUIPMENT CO INC	
OYSTER BAY NY	516-922-5660
SCHAEVITZ ENGINEERING	
PENNSAUKEN NJ	609-662-8000
Coil Winding Equipment Co Inc	
Oyster Bay NY.....	516-922-5660
Dillon & Co Inc W C Santa Rosa CA.....	707-527-5555
Larson Instrument Co Inc Orangeburg NY.....	914-359-3800
Lebow Products/Eaton Corp Troy MI.....	313-643-0220
Magtrol Corp Buffalo NY.....	716-668-5555
McFadden Systems Inc South Gate CA.....	213-584-5958
Schaevitz Engineering Pennsauken NJ.....	609-662-8000
Schenck Trebel Corp Deer Park NY.....	516-242-4010
West Coast Research Corp Los Angeles CA.....	213-478-8833

EARPHONES-HEADPHONES

CORD ELECTRONICS INC WESTBURY NY	516-935-3640
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
MULTI PRODUCTS INTERNATIONAL	
CEAR GROVE NJ	201-239-8183
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Acoustic Systems Corp New Hyde Park NY.....	516-328-3300
AKG Acoustics Inc Stamford CT.....	203-348-2121
Alaun Engineering Montrose CA.....	818-957-0618
Astatic Corp Coneaht OH.....	216-593-1111
Audiosears Corp Stamford NY.....	607-652-7305
Audiotronics Corp North Hollywood CA.....	818-765-2645
David Clark Co Inc Worcester MA.....	617-756-6216
Controlronics Corp Westford MA.....	617-692-3000
Cord Electronics Inc Westbury NY.....	516-935-3640
Danavox Inc Components Div	
Eden Prairie MN.....	612-941-0690
Emerson Radio Corp North Bergen NJ.....	201-854-4800
Ercona Corp Port Jefferson Sta NY.....	516-331-5500
GC Electronics Div Household Int'l	
Rockford IL.....	815-968-9661
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Hy-Gain Div Telex Commun Inc	
Minneapolis MN.....	612-884-4051
Imtronics Industries Ltd St Petersburg FL.....	813-577-9010
Knowles Electronics Inc Franklin Park IL.....	312-455-3600
Mouser Electronics Mansfield TX.....	817-483-0165
Multi Products International Cedar Grove NJ.....	201-239-8183
Nady Systems Inc Consumer Elctns Div	
Oakland CA.....	415-652-2411
Philmore Mfg Co Inc Inwood NY.....	516-239-6161
Recoton Corp Long Island City NY.....	718-392-6442
RIL Electronics Inc Warrington PA.....	215-343-5075
Roanwell Corp New York NY.....	212-989-1090
Sennheiser Electronic Corp (NY)	
New York NY.....	212-944-9440
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Sony Communications Prods Co	
Park Ridge NJ.....	201-930-1000
Speco Div Components Specialties Inc	
Lindenhurst NY.....	516-957-8700
Telex Communications Inc Minneapolis MN.....	612-884-4051

ECHO BOXES

See Radar Echo Boxes

EDUCATIONAL TV

See TV Systems—Closed Circuit

ELAPSED TIME INDICATORS

See Indicators—Elapsed Time

ELBOWS—WAVEGUIDE

See Waveguide Fittings

ELECTRETS

See Dielectrics—Permanently Polarized

ELECTRIC EQUIPMENT

See Type Desired (Furnaces; Controls; Ovens; etc.)

ELECTROCARDIOGRAPHS & OTHER MEDICAL INSTRUMENTS

See Medical Electronics Equipment

ELECTROFORMED PARTS

See Metal Parts—Electroformed

See Also Laminations; Package Parts—Lead Frames, or Other Specific Parts Desired

ELECTROLESS PLATING CHEMICALS

See Chemicals—Plating

ELECTROLUMINESCENT DEVICES

See Display Listings; Lamps; Lasers;

Optoelectronic Listings

ELECTROMAGNETS

BICRON ELECTRONICS CO CANAAN CT	203-824-5125
CADELL-BURNS MFG CO INC	
MINEOLA NY	516-746-2310
MULTI PRODUCTS INTERNATIONAL	
CEAR GROVE NJ	201-239-8183
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WORCESTER MA	617-852-3674
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A P W Co Inc Rockaway NJ.....	201-627-0643
Automatic Equipment Corp Cincinnati OH.....	513-769-0044
Aydin Radar & EW Div San Jose CA.....	408-629-1100
Bicron Electronics Co Canaan CT.....	203-824-5125
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Coil Winders Mineola NY.....	516-746-2310
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Eastern Delta Corp Nutley NJ.....	201-667-8721
Elma Engineering Palo Alto CA.....	415-494-7303
Endicott Coil Co Inc Binghamton NY.....	607-797-1263
LJ Inc Troy MI.....	313-528-2202
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Multi Products International Cedar Grove NJ.....	201-239-8183
Northlake Engineering Inc Antioch IL.....	312-395-5710
Ogallala Electronics Sub Magnetics & Elctns Div	
Ogallala NE.....	308-284-4093
Osborne Transformer Corp Detroit MI.....	313-368-4136
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Smallwood Ltd S G Kitchener ON.....	519-894-2820
Varian Electron Device Group Palo Alto CA.....	415-493-4000
Wabash Electrical Components Group	
Huntington IN.....	219-356-8300
Walker Scientific Inc Worcester MA.....	617-852-3674
Yokogawa Corp Of America Shenandoah GA.....	404-253-7000

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Advantest Corp Tokyo Japan.....	03-342-7500
Keithley Instruments Inc Cleveland OH.....	216-248-0400
RIL Electronics Inc Warrington PA.....	215-343-5075
Rutherford Research Co Rutherford NJ.....	201-933-2091
Simco Co Inc Hatfield PA.....	215-822-2171
Victoreen Inc Cleveland OH.....	216-795-8200

ELECTROMETER TUBES

See Tubes—Electrometer

ELECTROMYOGRAPHS

See Medical Electronics Equipment

ELECTRON BEAM MACHINES

See Machines—Crystal Growing; Welders

ELECTRON DIFFRACTION EQUIPMENT

Physical Electronics Div Perkin-Elmer Corp	
Eden Prairie MN.....	612-828-6300
Process & Instruments Corp Brooklyn NY.....	718-452-8380

ELECTRON GUNS

See Tube Parts

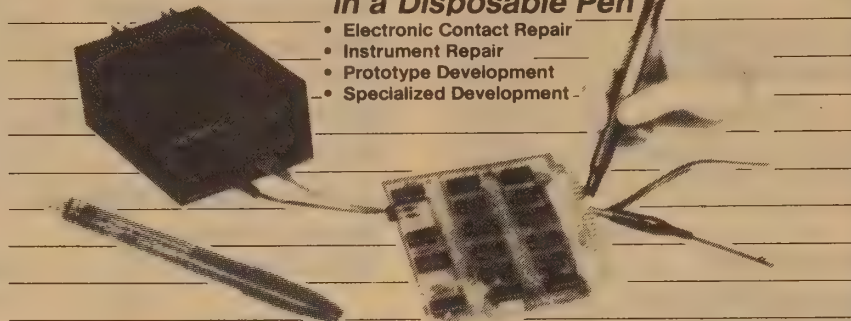
ELECTRON MICROSCOPES

HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
Hunter Products Inc Bridgewater NJ.....	201-526-8440
Nanometrics Inc Sunnyvale CA.....	408-735-1044
Physical Electronics Div Perkin-Elmer Corp	
Eden Prairie MN.....	612-828-6300
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ELECTRONIC CHEMICALS

See Chemicals

ELECTRONIC CIRCUIT DEMONSTRATORS

See Demonstrators

ELECTRONIC DATA PROCESSING EQUIPMENT

See Data Processing Equipment Reference List

ELECTRO-OPTICAL EQUIPMENT

See Optical; Optoelectronic; Photo Listings

ELECTROPLATING EQUIPMENT & MATERIALS

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Plating Anodes; Tanks

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ELECTROSTATIC CLEANERS

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Chapman Corp Portland ME..... 207-773-4726
Compliance Design Inc Boxborough MA..... 617-264-4668
Gamma High Voltage Research
Mt Vernon NY..... 914-667-5050
Keytek Instrument Corp Burlington MA..... 617-272-5170
Schaffner EMC Inc Instrument Div Union NJ..... 201-851-0644
Simco Co Inc Hatfield PA..... 215-822-2171
Spellman High Voltage Electronics Corp
Plainview NY..... 516-349-8686

ELECTROSTATIC SHIELDING

See Shielding

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Integrated Photomatrix Inc Mountainside NJ..... 201-233-6010
Ny-Glass Plastics Paramount CA..... 213-636-1035
Sealed Air Corp Fair Lawn NJ..... 201-797-4000
Shipley Co Inc Newton MA..... 617-969-5500
Telesis Controls Corp Chillicothe OH..... 614-642-3200

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See Medical Electronics Equipment

ELIMINATORS—BATTERY

See Power Supplies—DC

EMBOSSED CIRCUITS

See Printed Circuits—Stamped

EMERGENCY RADIO RECEIVERS & TRANSCIVERS

See Receivers, Radio Communications—Distress

EMERY PAPER

See Abrasives

ENAMELED WIRE

See Wire, Magnet

ENAMELS—DECORATIVE

See Paints

ENAMELS—WIRE INSULATION

See Wire Enamels

ENCAPSULATED COMPONENTS

See ICs Listings; Modules & Other Devices
Desired

ENCAPSULATING MATERIALS

See Plastic Listings; Potting Listings

ENCAPSULATION EQUIPMENT

See Machines—Encapsulating;
Machines—Plastics Molding; Molds; Potting
Compound Dispensers

ENCAPSULATION SERVICES

See Production Services

ENCLOSURES

See Cabinets & Consoles

Cases

Chambers

Clean Rooms

Dry Boxes & Glove Boxes

Package Parts

Packages

Shielding

Speaker Enclosures

ENCLOSURES—ELECTRONIC EQUIPMENT

See Also Chambers; Packages; Shielding;

Speaker Enclosures

AEG CORPORATION SOMERVILLE NJ..... 201-722-98
ADV PG 173
ALMO ELECTRONICS INC
PHILADELPHIA PA..... 215-698-40
ADV PG Green Pages
ALUMINUM DESIGN CORP
BROOKFIELD IL..... 312-387-31
BUD INDUSTRIES INC WILLOUGHBY OH..... 216-946-32
ADV PG 173
COMPAC HOLBROOK NY..... 516-585-34
ADV PG 174
ELECTRIC SWITCHES INC
LOS ANGELES CA..... 213-660-13
IET LABS INC WESTBURY NY..... 516-334-59
INTERNATIONAL INSTRUMENTATION INC
WESTLAKE VILLAGE CA..... 818-991-96
MILLER CO INC W A OQUOSSOC ME..... 207-864-33
ADV PG 79
MOUSER ELECTRONICS MANSFIELD TX..... 817-483-01
PEERLESS RADIO CORP LYNBROOK NY..... 516-593-21
ADV PGS Green Pages/Footstrips
PREMIER METAL PRODUCTS CO
BRONX NY..... 212-993-92
ADV PG 51
PREMIER METAL PRODUCTS CO
FONTANA CA..... 714-829-30
ADV PG 51
SAGER HINGHAM MA..... 617-749-67
ADV PGS Green Pages/Footstrips
WISE COMPONENTS INC GREENWICH CT..... 203-531-48
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AAK Corp Haverhill MA..... 617-373-37
Abalon Precision Mfg Corp Bronx NY..... 212-589-54
ADAC Corporation Woburn MA..... 617-935-61
Adams-Russell Modpak Burlington MA..... 617-273-33
Ad-Vance Magnetics Inc Rochester IN..... 219-223-33
AEG Corporation Somerville NJ..... 201-722-98
Alden Products Co Brockton MA..... 617-583-0
Allied Systems Corp Greensboro NC..... 919-299-22

Almo Electronics Inc Philadelphia PA	215-698-4000
Aluminum Design Corp Brookfield IL	312-387-3100
Alusett USA Inc Pleasantville NY	914-747-3477
Amco Engineering Co Schiller Park IL	312-671-6670
Amerex, Unibox Products Riverside CA	714-686-1400
Andrew Corp Orland Park IL	312-349-3300
Ango Electronics Corp Harrison NJ	201-484-1115
Applied Design Co Inc Tonawanda NY	716-837-4400
Augat Inc Attleboro MA	617-222-2202
Axle Inc San Diego CA	619-560-7737
Baco Controls Inc Cazenovia NY	315-655-8372
BICC-Vero Electronics Inc Trumbull CT	203-372-0038
Bionder-Tongue Labs Inc Old Bridge NJ	201-679-4000
Bopla Enclosures Systems McLean VA	703-549-7242
Bud Industries Inc Willoughby OH	216-946-3200
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Chassis Trak Div General Devices Co Inc Indianapolis IN	317-897-7000
Churchill Corp Melrose MA	800-225-3932
Compac Holbrook NY	516-585-3400
Control Technology Div AirBorn Elect Corp Garland TX	214-272-5544
Cortron Div ITW Elmhurst IL	312-279-9110
Craig Systems Corp Amesbury MA	617-388-5662
CTS Corp Elkhart IN	219-293-7511
Cahlstrom Mfg Co Inc Jamestown NY	716-487-0111
Designed Enclosures Inc dba DEI Teleproducts Escondido CA	619-743-8344
CP Corp Cleveland OH	216-391-0444
CS Composites Grants Pass OR	503-476-8871
Co Corp Newport Beach CA	714-476-0663
Electric Switches Inc Los Angeles CA	213-660-1310
Electronic Enclosures Div Wyle Labs Pennsauken NJ	609-665-6810
Electro Space Fabricators Inc Topton PA	215-682-7181
Emcor Products/Crenlo Inc Rochester MN	507-289-3371
Emerson & Cuming Canton MA	617-828-3300
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Enclosure Corp Cornwells Hts PA	215-638-9550
Equipto Enclosure Systems Div Equipto Elctns Corp Aurora IL	312-897-4691
Elstrom Co Passaic NJ	201-777-0013
Escher & Porter Co Warminster PA	215-674-6000
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International Electronic Research Corp Burbank CA	213-849-2481
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Inetron Corp Asbury Park NJ	201-776-9595
Kingston Metal Specialties Kingston PA	717-288-5411
Kirk & Blum Mfg Co Cincinnati OH	513-351-1400
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LaFrance Corp Philadelphia PA	215-365-8000
Leke Shore Electric Corp Bedford OH	216-232-0200
Leasing Research Corp Ithaca NY	607-272-3265
Leisay Structures Div Intl Steel Co Evansville IN	812-425-3311
Lockhart Industries Inc Paramount CA	213-774-2981
Logical Design Group Inc Raleigh NC	919-834-8827
Lark-Hon Industries Inc Wabash IN	219-563-2161
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Liller Co Inc W A Oquossoc ME	207-864-3344
Libel Electronics Inc Anderson IN	317-642-7976
Logi Technical Products Tampa FL	813-855-5736
Louder Electronics Mansfield TX	817-483-0165
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Lowe-Tronix Inc Santa Clara CA	408-727-9530
WL Transformers Bordentown NJ	609-298-7300
Lplima Div Scientific Atlanta Inc Tucker GA	404-939-6340
Lo-Tec Corp Sub LaFrance Corp Philadelphia PA	215-365-8400
Lo Sound Products Inc Pelham NY	914-738-4800
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Loital Corp Springfield OH	513-325-1141
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Loager Hingham MA	617-749-6700
Loakas Inc Baltimore OH	614-862-4114
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Lochroff Inc Warwick RI	401-732-3770
Lochentic Atlanta Inc Atlanta GA	404-441-4000
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Looundoller Div Amer Trading Prod Corp St Louis MO	314-962-9870
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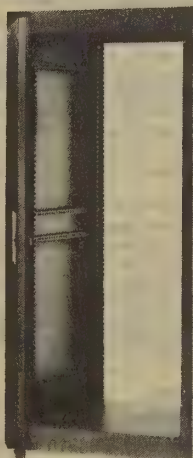
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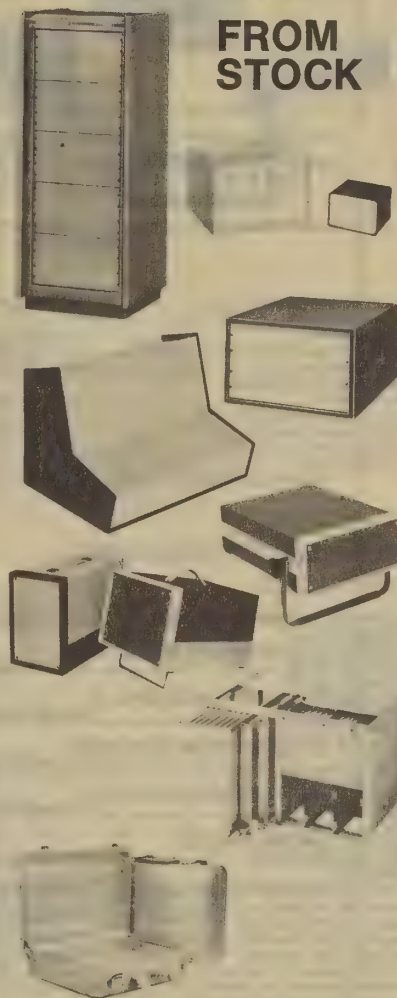


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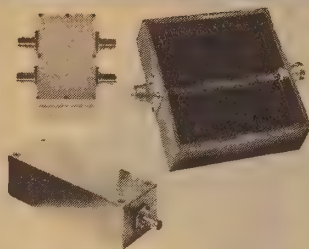
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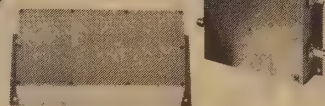
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Viz Test Equip Div Viz Mfg Co	
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Webb Co Jervis B Farmington Hills MI	313-553-1220
Wise Components Inc Greenwich CT	203-531-4880
Xytec Plastics Inc Tacoma WA	206-582-0644
Zero Corp Burbank CA	818-846-4191

ENCODERS (EXCEPT FOLLOWING
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ADV PGS 176,177	
BEI MOTION SYS CO COMPUTER PRODUCTS DIV	
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ADV PGS 176,177	
BEI MOTION SYS CO DIGITAL PRODUCTS DIV	
LITTLE ROCK AR	501-851-4000
ADV PGS 176,177	
BEI MOTION SYS CO INDUSTRIAL ENCODER DIV	
GOLETA CA	805-968-0782
ADV PGS 176,177	
BEI MOTION SYS CO POSITION CONTROLS DIV	
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ADV PGS 176,177	
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ADV PG 174	
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Applied Image Inc Rochester NY	716-482-0300
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BEI Motion Sys Co Computer Products Div	
San Marcos CA	619-471-2600
BEI Motion Sys Co Digital Products Div	
Little Rock AR	501-851-4000
BEI Motion Sys Co Industrial Encoder Div	
Goleta CA	805-968-0782
BEI Motion Sys Co Position Controls Div	
Santa Barbara CA	805-966-1538
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Clifton Precision Litton Systems Inc	
Clifton Hts PA	215-622-1000
Codenoll Technology Corp Yonkers NY	914-965-6300
Computer Conversions Corp	
East Northport NY	516-261-3300
Digital Blending Systems Inc	
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Eon Instrumentation Inc Van Nuys CA	818-781-2185
Fairchild Weston Systems Inc Sarasota FL	813-371-0811
Fifth Dimension Inc Trenton NJ	609-393-8350
FSI/Fork Standards Inc Lombard IL	312-932-9380
Hi-Shear Technology Corp Torrance CA	213-266-8110
ILC Data Device Corp Bohemia NY	516-567-5600
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
Markem Corp Keene NH	603-352-1130
Micro Mo Electronics Inc St Petersburg FL	813-822-2529
Microperipheral Corp Redmond WA	206-881-7544
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Sequential Information Systems Inc	
Elmsford NY	914-592-5930
Servo-Tek Products Co Hawthorne NJ	201-427-3100
Sigma Instruments Inc Fisher Pierce Div	
BrainTree MA	617-843-5000
Teledyne-Gurley Troy NY	518-272-6300
Teledyne Microelectronics Los Angeles CA	213-870-9831
TRW Optoelectronics Div Carrollton TX	214-323-2200
Vega Precision Labs Vienna VA	703-938-6300
Vernitron Div Vernitron Corp Deer Park NY	516-586-5100
Xico Inc Chatsworth CA	818-709-4403

ENCODERS—IC DEVICES

See ICs Listings

ENCODERS—KEYBOARD (EXCEPT IC
DEVICES)

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ADV PG 111	
A C D Corp Dayton OH	513-222-2600
Advanced Input Devices Coeur d'Alene ID	208-765-8000
Alps Electric (USA) Inc Rockville Centre NY	516-766-3636
Bowmar Instrument Corp Ft Wayne Div	
Ft Wayne IN	219-747-3121
Cincinnati Electrosystems Inc Loveland OH	513-831-4347
Enterprise Systems Corp Dover NH	603-742-7363
Markem Corp Keene NH	603-352-1130
Ring Group of North America Great Neck NY	516-487-0250
SYT Corp El Paso TX	915-593-1234
Temposonics Div MTS Sys Corp Plainview NY	516-349-1950
Venator Systems Inc San Jose CA	408-262-7788

RUGGED
ABSOLUTE ENCODERS

DIGI-SHAFT SERIES \$395.00/AXIS

INPUT:	Shaft angle position coupled to DIGI-SHAFT
OUTPUT:	LED Display—BCD, Binary, or DC Data with
	HIGH NOISE IMMUNITY
ACCURACY:	±1 Part in 3600 (single turn) (multi-turn has higher accuracy)
SCALE FACTOR:	Infinitely Adjustable (0.9999)
PACKAGE:	Size 8, 11, or 15 Transducer with 5.4" x 7.0" x 1.75" electronics package
OPTIONS:	NEMA housing, Zero Offset or Preset, Multi- axis units, Multi-Turn units with 6 digit (999999) output

TYPICAL UNITS

Pt. No.	Output	Counts/ 360°
DS90-DS-12	Binary Data	2 ¹²
DSR90-36-BC	0-3599 display + BCD data	3600
DSR90-10	0-999 display	1000
DSR90L-25-BC	0 to ±2500 display + BCD data	±2500
MDS90-DBC-100	BCD (100,000) (Multi-Turn)	1000



**COMPUTER
CONVERSIONS
CORPORATION 6 DUNTON COURT,
EAST NORTHPORT N.Y. [11731]**

[516] 261-3300

TWX 510-226-0448

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ADV PGS 176,177	
BEI MOTION SYS CO COMPUTER PRODUCTS DIV	
SAN MARCOS CA	619-471-2600
ADV PGS 176,177	
BEI MOTION SYS CO DIGITAL PRODUCTS DIV	
LITTLE ROCK AR	501-851-4000
ADV PGS 176,177	
BEI MOTION SYS CO INDUSTRIAL ENCODER DIV	
GOLETA CA	805-968-0782
ADV PGS 176,177	
BEI MOTION SYS CO POSITION CONTROLS DIV	
SANTA BARBARA CA	805-966-1538
ADV PGS 176,177	
COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
ADV PG 174	
FARRAND CONTROLS DIV FARRAND INDUS INC	
VALHALLA NY	914-761-2600
ILC DATA DEVICE CORP BOHEMIA NY	516-567-5600
INC MAGNETICS CORP UNIVERSAL MAGNETICS	
CORP SUB CHATSWORTH CA	818-341-3300
ADV PG Back Cover	
ITEK MEASUREMENT SYSTEMS DIV LITTON	
INDUSTRIES NEWTON MA	617-969-7300
ADV PG 175	
MEASUREMENT SYSTEMS INC	
NORWALK CT	203-838-5500
SUPERIOR ELECTRIC CO THE	
BRISTOL CT	203-582-9500
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Airflyte Electronics Co Bayonne NJ	201-436-2200
Astrosystems Inc Lake Success NY	516-328-1600
BEI Motion Systems Co Carlsbad CA	619-931-1500
BEI Motion Sys Co Computer Products Div	
San Marcos CA	619-471-2600
BEI Motion Sys Co Digital Products Div	
Little Rock AR	501-851-4000
BEI Motion Sys Co Industrial Encoder Div	
Goleta CA	805-968-0782
BEI Motion Sys Co Position Controls Div	
Santa Barbara CA	805-966-1538
C & A Products Inc New Milford CT	203-355-3100
Clifton Precision Litton Systems Inc	
Clifton Hts PA	215-622-1000
Computer Conversions Corp	
East Northport NY	516-261-3300
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Control Sciences Inc Chatsworth CA	818-709-5500
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Copal USA Inc Torrance CA	213-373-9000
Curry Engineering Co N Hollywood CA	213-877-1700
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Wilmington MA	617-658-5000
Dataproductions Corp Woodland Hills CA	818-887-8000
Data Technology Inc Woburn MA	617-935-8800
Digital Blending Systems Inc	
East Providence RI	401-434-3440
Disc Instruments, A Honeywell Sub	
Costa Mesa CA	714-979-5300
Dynamics Research Corp Encoder Div	
Wilmington MA	617-658-6100
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Electro-Craft Corp Hopkins MN	612-931-2700
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Mundelein IL	312-362-8900
Electro-Tec Corp Blacksburg VA	703-552-2100
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Encoder Div Litton Systems Inc	
Chatsworth CA	818-341-6100
Encoder Products Co Sandpoint ID	208-263-8500
Farrand Controls Div Farrand Indus Inc	
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Flight Research A Geotek Co Richmond VA	804-222-0100
FSI/Fork Standards Inc Lombard IL	312-932-9300
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IMC Magnetics Corp Universal Magnetics Corp Sub	
Chatsworth CA	818-341-3300
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Newton MA	617-969-7300
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Atlantic Highlands NJ	201-291-0500
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Portescap U S Micromotor Div Worcester PA	215-277-1300
Real Time Systems Inc Mt Vernon NY	914-667-0400
Redington Counters Inc Windsor CT	203-688-6200
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Elmsford NY	914-592-5930
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Stock Drive Products Inc Div Designatronics	
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Superior Electric Co The Bristol CT	203-582-9500
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MicroSeries Ultra-Small Absolute Encoders For Military Fire Control



MODEL	SIZE (Inches)		RESOLUTION (QUANTA/REV.)						BCD
	O.D.	SHAFT DIAM.	BINARY (2 ^{xx})						
μS-/16	1.6	.25	12	13	14	15	—	6.4K	
μS-/23	2.3	.25	13	14	15	16	17		

Features: Small Size • High Accuracy • Direct Digital Transducer • Absolute Whole Word Output • MIL Environments—Gun, Ship, Aircraft, Spacecraft (Vibration 20G, Shock 1000G, 0.8ms) • LED Illuminators • High Reliability.

Digisec® Encoders—RA series

RI series

Rotary Absolute Encoders

Rotary Incremental Encoders

SIZE (Inches)			Resolution (Quanta/Rev.)		Resolution (Quanta/Rev.)		Resolution (Quanta/Rev.)		Resolution (Quanta/Rev.)	
Model	O.D.	Shaft Diam.	Binary (2 ^{xx})		Binary (2 ^{xx})		Binary (2 ^{xx})		Decimal	
SOLID SHAFT	15	1.5	167							
	23	2.3	25							
	35	3.5	375							
THRU-HOLE	55	5.5	75							
	60	6.0	225							
	100	10.0	275							
	106	10.6	6.0							
	117	11.0	7.0							
	150	15.0	8.0							

OD—Outside Diameter ID—Inside Diameter C—Self-contained Electronics

S—Separate electronic enclosure T—2 speed geared paired configurations

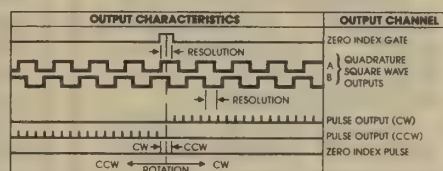
Features: • Parallel whole word unambiguous output • TTL/DTL compatible • Resolution to 0.31 arc-seconds (22 bits) • Highest accuracies available anywhere • Operating temperature -40° to +71°C • Military Specification rated • Instant on-the-fly readout • LED light sources • Separate Electronics—no electronics in optical unit (thru-hole systems)

Available Options: • Serial readout • Line driver output • Redundancy • Chrome slit and disc (standard on size 23 and size 158) • Binary lamp display • Subtractor card for electronic zeroing

Environmental Ratings. All DIGISEC® encoders are designed to meet rigid military specifications. The following environmental specifications are typical. Temperature, -40° to +71°C Vibration, 10-20G Humidity, 0 to 98% Shock, 50G, 11 milliseconds (higher on solid shaft models)

Features: • Quadrature square wave or pulse output, zero index • TTL/DTL compatible • Resolution to 0.31 arc-seconds (22 bits) • Self-contained electronics • Operating temperature -40° to +71°C • Military Specification rated • LED light sources

Available Options: • Line driver output • Pigtail cable • Square wave or pulse output



Spacecraft Encoders: Absolute & Incremental

Model	Type	Diam. (Inches)	Resolution (Quanta/Rev.)	Accuracy	Weight (lbs.)	Power (watts)	Features
RA21/1510	Absolute	15.0	2 ²¹	2.6 sec	20.0	3.0	10 Inch Thru-hole Electrical Redundancy
RA18/60	Absolute	6.0	2 ¹⁸	10.0 sec	8.5	3.0	Elect. & Mech. Redundancy
RI13/35	Incremental	3.5	2 ¹³	2.6 min	3.0	2.0	Commutator Outputs
RI20/63	Incremental	6.3	2 ²⁰	1.5 sec	7.7	0.5	Unhoused Commutator Outputs
RI36K/40	Incremental	4.0	36,000	2.5 sec	3.0	0.3	Electrical Redundancy
RI14.4K/23	Incremental	2.3	14,000	1.5 min	75	0.4	Commutator Outputs

Features: LED Illuminators • Resolution to 0.31 Arc Seconds (22 Bits) • Highest Accuracy Available Anywhere. Available with bearings (housed) or without (unhoused)



ITEK MEASUREMENT SYSTEMS

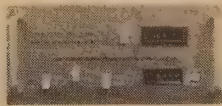
27 Christina Street, Newton, Massachusetts 02161
Telephone: 617-969-7300 TWX: 710-335-6783

Specifications subject to change without notice.

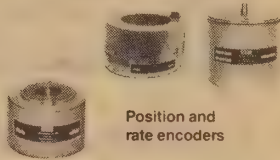
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High accuracy optical rotary, absolute and incremental encoders. Standard resolutions to 2,097,152 bits-per-turn. Special resolutions to 16,777,216 (2^{24}) bits-per-turn.

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Single and
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Brushless DC motors are available from 1" to 6" diameter and provide the performance characteristics and advantages associated with PM DC servo motors of these sizes. Linear and rotary moving coil actuators provide high speed strokes up to 4.5 inches.

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EYELETS—flat, funnel or rolled flange eyelets with ODs ranging from .030" to .246" are available from stock. **Solder, tin, nickel or gold platings** to Mil-Specs can be supplied.

SETTING TOOLS—for all IEI eyelets are available for **funnel or rolled flange settings**. Always in stock.

HAND PRESS—Portable or bench mounted. 8" throat depth for 16" PCBs. Uses IEI setting tools.

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See Production Services

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ETCHING EQUIPMENT & MATERIALS

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ETCHING SERVICES

See Printed Circuits; Metal Parts—Electroformed

EVENT COUNTERS

See Counters (Instruments)

EVENT RECORDERS

See Recorders

EXCITERS

See Oscillators, Transducers & Other Specific Types

EXPOSURE METERS

See Meters—Light

EXTRUSIONS—CUSTOM

See Metal Parts; Plastic Parts

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Airhead Inc Mountainside NJ	201-233-6010
rich Corp West Caldwell NJ	201-882-2000

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egrated Photomatrix Inc Mountainside NJ	201-233-6010
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East Providence RI	401-438-1780
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Newton MA	617-964-8360
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Torrance CA	213-515-3993
Airhead Inc Mountainside NJ	201-233-6010
rich Corp West Caldwell NJ	201-882-2000

FACSIMILE EQUIPMENT—SYSTEMS

See Communications Systems

FACSIMILE EQUIPMENT—TRANSMITTERS

ANON USA INC ELECTRONIC COMPONENTS DIV	
LAKE SUCCESS NY	516-488-6700
IME ZERO CORP CLIFTON NJ	201-340-0400
Vden Electronics Inc Westboro MA	617-366-8851
anon USA Inc Copier Div Lake Success NY	516-488-6700
anon USA Inc Electronic Components Div	
Lake Success NY	516-488-6700

Electro-Nav Inc Elizabeth NJ	201-527-0099
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Integrated Photomatrix Inc Mountainside NJ	201-233-6010
Mitsubishi Electronics America Inc	
Torrance CA	213-515-3993
Muirhead Inc Mountainside NJ	201-233-6010
NEC America Inc Melville NY	516-753-7000
Rich Corp West Caldwell NJ	201-882-2000
Telautograph Corp Los Angeles CA	213-641-3690
Time Zero Corp Clifton NJ	201-340-0400
Xerox Corp Business Sys Group	
Rochester NY	716-423-3539

FANS

See Blowers & Fans

FASTENERS & FASTENING DEVICES

CONCORD ELECTRONICS CORP	
NEW YORK NY	212-777-6571
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
UNICORP ORANGE NJ	201-674-1700
ADV PG 208	

Abbott Products Inc College Point NY	718-358-1400
Abcoa Industries Hawthorne CA	213-970-0886
Accessories for Electronics Inc Baldwin NY	516-546-1751
Adams Rite Products Inc Glendale CA	818-241-5121
Adhesives Research Inc Glen Rock PA	717-235-7979
Aimco Inc Seattle WA	206-284-5563
Allmetal Screw Products Co Inc	
Garden City NY	516-222-1200
Amatom Electronic Hardware Co	
New Haven CT	203-397-3311
AMETEK Straza Div El Cajon CA	619-442-3451
Armco Middletown OH	800-231-3748
Arrow Fastener Co Inc Saddle Brook NJ	201-843-6900
Art Wire/Doduco Parsippany NJ	201-428-4880
Augat/Pylon Co Inc Attleboro Falls MA	617-699-7646
Autosplince Inc Woodside NY	718-429-0500
Auto-Swage Products Inc Shelton CT	203-929-1401
Blackburn Div FL Industries Sycamore IL	815-895-6501
Bostitch Div Textron Inc East Greenwich RI	401-884-2500
Brady Co W H Industrial Prods Div	
Milwaukee WI	414-351-6630
Camcar Div Textron Inc Rockford IL	815-226-7721
Captive Fastener Corp Oakland NJ	201-337-6800
Cherry Aerospace Fasteners Div Textron Inc	
Santa Ana CA	714-545-5511
Concord Electronics Corp New York NY	212-777-6571
Cornell Mfg A Nortek Co Orangeburg NY	914-365-0400
Dimco-Gray Co Centerville OH	513-433-7600
Eaton Corp Engineered Fasteners Div	
Cleveland OH	216-523-5361
Eberhard Mfg Co Strongsville OH	216-238-9720
Elastic Stop Nut Div Harvard Ind Inc	
Union NJ	201-686-6000
Elco Industries Inc Rockford Div Rockford IL	815-397-5151
Electrovent Inc Indus Elec & Elctn Prods	
Elmsford NY	914-592-7322
Enhart Fasteners Grp Pop Fasteners Div	
Shelton CT	203-735-9341
Eyeteel Tool Co Natick MA	617-653-9002
Fibre Materials Corp Plainville NY	516-349-1660
Globe Plastics Inc Pomona CA	714-623-2747
Great Eastern Metal Products Co Yonkers NY	914-476-7300
Gries/Dynacast Div Coats & Clark Inc	
Yorktown Hts NY	914-633-8600
Groov-Pln Ridgefield NJ	201-945-6780
Hartwell Corp Placentia CA	714-993-4200
Heil-Coil Products Div MITE Corp Danbury CT	203-743-7651
Heyco Molded Products Kenilworth NJ	201-245-0033
Hi-Shear Technology Corp Torrance CA	213-226-8110
Impex Div National Lock Corp	
Crawfordsville IN	317-362-0800
IN-X Fastener Corp Fairfield NJ	201-484-2000
Klinteron Corp Asbury Park NJ	201-776-9595
Kuka Smith Inc Manassas NY	201-223-9400
Luke Line Fasteners Beverly NJ	609-387-1166
Medialist Champion Screw Melrose Park IL	312-345-3130
Metal Forming Oper GTE Prods Corp	
York PA	717-848-8080
Midwest Sintered Products Corp Riverdale IL	312-849-5290
Milford Rivet & Machine Co Milford CT	203-878-4631
Monadnock Co City of Industry CA	818-964-6581
Mouser Electronics Mansfield TX	817-483-0165
N-D Industries Troy MI	313-362-1200
Nelson Stud Welding Div Lorain OH	216-245-6931
Nielsen Hardware Corp Hartford CT	203-522-8145
Norelcom Industries Inc Farmingdale NY	516-249-7262
Panduit Corp Tinley Park IL	312-532-1800
Panecol Corp Farmington CT	203-677-6711
Penn Engineering & Mfg Corp Danboro PA	215-766-8853
PIC Design Middlebury CT	203-758-8272
Plastiglide Mfg Corp Hawthorne CA	213-777-8108
Porcelain Products Co Carey OH	419-396-7621
Precision Metal Products Co Inc Peabody MA	617-532-5500
Ramsey Piston Ring Div TRW Automotive Prods Inc	
Manchester MO	314-394-3700
Raychem Corp Menlo Park CA	415-361-3333
Red Devil Mfg Co Inc Rosemont IL	312-693-4045
Rexnord Inc Milwaukee WI	414-643-3000
Rexnord Specialty Fastener Div Tridair Prods	
Torrance CA	213-530-2220
Richco Plastic Co Chicago IL	312-539-4060
Russell Burdall & Ward Corp Cleveland OH	216-861-8250
Sessions & Son J H Bristol CT	203-582-3127
Shokai Far East Ltd Hartsdale NY	914-681-0700
Simonds Inc Southbridge MA	617-764-3235
Sjoberg & Son Inc Cranston RI	401-461-8220
SOS Lighting Devices Div MEMCO	
Philadelphia PA	215-423-7077
Southco Inc Concordville PA	215-459-4000
Stake Fastener Co Div Dupree Inc Chino CA	714-597-4889
Standard Insert Co Inc Pacolma CA	818-896-9529

Sterling Instrument Div Designatronics Inc	
New Hyde Park NY	516-328-3300
Stimpson Co Inc Bayport NY	516-472-2000
Stock Drive Products Inc Div Designatronics	
New Hyde Park NY	516-328-0200
Teale Machine Co Inc Rochester NY	716-244-6700
Teknational Industries Inc Rochester NY	716-232-1291
Thomas & Betts Electrical Group Raritan NJ	201-685-1600
Titchener & Co E H Binghamton NY	607-772-1161
Topflight Corp York PA	717-843-9901
Trans National Fabricators Linden NJ	201-862-4815
Tyton Corp Milwaukee WI	414-355-1130
Unicorp Orange NJ	201-674-1700
Upson Tools Inc Rochester NY	716-663-5373
USECO Div Litton Systems Inc Van Nuys CA	818-786-9381
Vaco Products Co Northbrook IL	312-564-3300
Vector Electronic Co Inc Sylmar CA	818-365-9661
Vemaline Prods Div O B Test Group Inc	
Providence RI	401-739-7600
Zero Corp Burbank CA	818-846-4191

FATHOMETERS

See Depth Sounders

FAULT LOCATORS

See Cable Fault & Line Fault Locators

FEEDTHROUGHS

See Capacitors, Fixed; Insulators

FERRITES

See Magnetic Materials—Ferrites, Soft

FERRITE MODULATORS

See Modulators

FERRITE PARTS (EXCEPT CORES, MAGNETS OR MICROWAVE)

KRYSTINEL CORP PATERSON NJ	201-345-8900
ADV PG 180	
SADA ELETTRONICA SPA PAVIA ITALY	382-4669 31
ADV PG 127	
THOMSON COMPONENTS MOSTEK CORP PASSIVE COMPS DIV WOODLAND HILLS CA	818-887-1010
Ceramic Magnetics Inc Fairfield NJ	201-227-4222
Chomerics Inc Woburn MA	617-935-4850
Decibel Products Inc Dallas TX	214-631-0310
Fair-Rite Products Corp Walkill NY	914-895-2055
Ferronics Inc Fairport NY	716-223-1010
Ferroxcube Saugerties NY	914-246-2811
Krystinel Corp Paterson NJ	201-345-8900
Magnetics Div Spang Co Butler PA	412-282-8282
National Moldite Co Newark NJ	201-589-6860
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Pyramid Magnetics Chatsworth CA	818-998-0825
SADA Elettronica SpA Pavia Italy	382-4669 31
Siemens Components Inc Iselin NJ	201-321-3400
The Stackpole Corp Elctn Components Div	
St Marys PA	814-781-1234
Stamet Mfg Corp Fairfield NJ	201-227-2432
Stetron International Inc Buffalo NY	716-554-3443
Taiyo Mfg Co D M Chattanooga TN	615-867-4100
Teward Yugen USA Inc Arlington Hts IL	312-364-6104
Thomson Components Mostek Corp Passive Comps Div	
Woodland Hills CA	818-887-1010

FERRITE PARTS—MICROWAVE

KRYSTINEL CORP PATERSON NJ	201-345-8900
ADV PG 180	
TDK CORP TOKYO JAPAN	03-278-5111
Alpha Industries Inc Woburn MA	617-935-5150
Countis Industries Carson City NV	702-862-6123
Deltronc Crystal Industries Dover NJ	201-381-2222
Electromagnetic Sciences Inc Norcross GA	404-448-5770
Emerson & Cuming Canton MA	617-828-3300
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Ferrite Control Co Div Micron Inc Brick NJ	201-458-3333
Krystinel Corp Paterson NJ	201-345-8900
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
Microwave Applications Group	
Santa Maria CA	805-928-5711
Microwave Development Labs Inc Natick MA	617-655-0060
Perrmag Corp Hicksville NY	516-822-3311
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Premier Microwave Corp Port Chester NY	914-939-8900
Pyramid Magnetics Chatsworth CA	818-998-0825
Quartzite Processing Inc Malden MA	617-322-1380
Siemens Components Inc Iselin NJ	201-321-3400
Steward Mfg Co D M Chattanooga TN	615-867-4100
TDK Corp Tokyo Japan	03-278-5111
Trak Microwave Corp Tampa FL	813-884-1411
Watkins-Johnson Co Palo Alto CA	415-493-4141

FERRITE PARTS (EXCEPT CORES, MAGNETS OR MICROWAVE)

KRYSTINEL CORP PATERSON NJ	201-345-8900
ADV PG 180	
SADA ELETTRONICA SPA PAVIA ITALY	382-4669 31
ADV PG 127	
THOMSON COMPONENTS MOSTEK CORP PASSIVE COMPS DIV WOODLAND HILLS CA	818-887-1010
Ceramic Magnetics Inc Fairfield NJ.....	201-227-4222
Chomerics Inc Woburn MA.....	617-935-4850
Decibel Products Inc Dallas TX.....	214-631-0310
Fair-Rite Products Corp Walkill NY.....	914-895-2055
Ferronics Inc Fairport NY.....	716-223-1010
Ferroxcube Saugerties NY.....	914-246-2811
Krystinel Corp Paterson NJ.....	201-345-8900
Magnetics Div Spang Co Butler PA.....	412-282-8282
National Moldite Co Newark NJ.....	201-589-6860
Philips Electronic Comps & Matis Div	
Eindhoven Netherlands.....	040791111
Pyramid Magnetics Chatsworth CA.....	818-998-0825
SADA Elettronica SpA Pavia Italy.....	382-4669 31
Siemens Components Inc Iselin NJ.....	201-321-3400
The Stackpole Corp Elctn Components Div	
St Marys PA.....	814-781-1234
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Stetron International Inc Buffalo NY.....	716-854-3443
Steward Mfg Co D M Chattanooga TN.....	615-867-4100
Taiyo Yuden USA Inc Arlington Hts IL.....	312-364-6104
Thomson Components Mostek Corp Passive Comps Div	
Woodland Hills CA.....	818-887-1010

FERRITE PARTS—MICROWAVE

KRYSTINEL CORP PATERSON NJ	201-345-8900
ADV PG 180	
TDK CORP TOKYO JAPAN	03-278-5111
Alpha Industries Inc Woburn MA.....	617-935-5150
Countis Industries Carson City NV.....	702-882-6123
Deltronic Crystal Industries Dover NJ.....	201-361-2222
Electromagnetic Sciences Inc Norcross GA.....	404-448-5770
Emerson & Cuming Canton MA.....	617-828-3300
Epsilon-Lambda Electronics Corp Geneva IL.....	312-232-9611
Ferrite Control Co Div Micon Inc Brick NJ.....	201-458-3333
Krystinel Corp Paterson NJ.....	201-345-8900
M/A COM Microwave Circuits Inc	
Burlington MA.....	617-272-3000
M/A-COM Microwave Components Inc	
Burlington MA.....	617-272-3000
Microwave Applications Group	
Santa Maria CA.....	805-928-5711
Microwave Development Labs Inc Natick MA.....	617-555-0060
Permag Corp Hicksville NY.....	516-822-3311
Philips Electronic Comps & Matis Div	
Eindhoven Netherlands.....	040791111
Premier Microwave Corp Port Chester NY.....	914-939-8900
Pyramid Magnetics Chatsworth CA.....	818-998-0825
Quartzite Processing Inc Malden MA.....	617-322-1380
Siemens Components Inc Iselin NJ.....	201-321-3400
Steward Mfg Co D M Chattanooga TN.....	615-867-4100
TDK Corp Tokyo Japan.....	03-278-5111
Trak Microwave Corp Tampa FL.....	813-884-1411
Watkins-Johnson Co Palo Alto CA.....	415-493-4141

FERRITES—GARNET

TDK CORP TOKYO JAPAN	03-278-5111
Alpha Industries Inc Woburn MA.....	617-935-5150
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Countis Industries Carson City NV.....	702-882-6123
Deltronic Crystal Industries Dover NJ.....	201-361-2222
Epsilon-Lambda Electronics Corp Geneva IL.....	312-232-9611
General Diode Corp Framingham MA.....	617-879-0880
M/A-COM Microwave Components Inc	
Burlington MA.....	617-272-3000
Quartzite Processing Inc Malden MA.....	617-322-1380
TDK Corp Tokyo Japan.....	03-278-5111

FERRITES—RAW MATERIAL

KRYSTINEL CORP PATERSON NJ	201-345-8900
ADV PG 180	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Alpha Industries Inc Woburn MA.....	617-935-5150
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Countis Industries Carson City NV.....	702-882-6123
Epsilon-Lambda Electronics Corp Geneva IL.....	312-232-9611
Ferronics Inc Fairport NY.....	716-223-1010
General Diode Corp Framingham MA.....	617-879-0880
Krystinel Corp Paterson NJ.....	201-345-8900
National Moldite Co Newark NJ.....	201-589-6860
Permag Corp Hicksville NY.....	516-822-3311
Philips Electronic Comps & Matis Div	
Eindhoven Netherlands.....	040791111
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Steward Mfg Co D M Chattanooga TN.....	615-867-4100

FERRITE SHIELDING

See Shielding, Magnetic—Ferrite

FIBER OPTIC DATA TRANSMISSION SYSTEMS—ANALOG & DIGITAL

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AMP INCORPORATED HARRISBURG PA	717-564-0100
OPTICAL DATA SYSTEMS INC RICHARDSON TX	214-234-6400

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AEG Corporation Somerville NJ.....	201-722-9800
AMP Incorporated Harrisburg PA.....	717-564-0100
Analog Modules Inc Longwood FL.....	305-339-4356
Anritsu America Inc Oakland NJ.....	201-337-1111
Artel Communications Corp Worcester MA.....	617-752-5690
Atlantic Scientific Corp Melbourne FL.....	305-725-8000
Augat Inc Attleboro MA.....	617-222-2202
Avantek Inc Santa Clara CA.....	408-496-6710
Canstar Communications Scarborough ON.....	416-293-9722
Codenoll Technology Corp Yonkers NY.....	914-965-6300
Data Control Ltd Fiberoptics Div	
Palo Alto CA.....	415-494-1350
Da-Tel Research Co Inc Montrose CO.....	303-249-6129
Dowty RFL Industries Inc Commun	
Boonton NJ.....	201-334-3100
Dymec Winchester MA.....	617-729-7870
Ealing Corp South Natick MA.....	617-655-7000
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI.....	414-449-6000
Edo Corp/Western Div Salt Lake City UT.....	801-486-7481
EOtec Corp West Haven CT.....	203-934-7961
FOP Inc/Frequency Cont Prods Woodside NY.....	718-458-5811
FiberCom Inc Roanoke VA.....	703-342-6700
Fibronics International Hyannis MA.....	617-778-0700
Fotec Inc Boston MA.....	617-241-7810
Foundation Instruments Inc Nepean ON.....	613-226-4000
Gandalf Data Inc Wheeling IL.....	312-541-6060
General Optonics Corp Edison NJ.....	201-549-9000
Harbor Electronics Inc Ridgefield CT.....	203-438-9625
Harris Corp Farinon Div San Carlos CA.....	415-594-3000
Hewlett-Packard Palo Alto CA.....	415-857-8000
ICS Electronics Corp San Jose CA.....	408-263-4844
Intelec West Action MA.....	617-264-4845
Interoptics Burlington CA.....	415-347-7727
ITT Gilfillan Van Nuys CA.....	213-988-2600
JAE Electronics Inc Santa Ana CA.....	714-250-8770
Kaptron Inc Palo Alto CA.....	415-493-8008
Kinetic Systems Corp Lockport IL.....	815-838-0005
LeCroy Corp Spring Valley NY.....	914-425-2000
Lightwave Communications Inc Ridgefield CT.....	203-438-3591
Manage Inc Chicopee MA.....	413-598-8204
Marlee Switch Co Upland CA.....	714-982-8988
Math Associates Inc Westbury NY.....	516-334-6800
MEKontrol Inc Northboro MA.....	617-393-2451
National Instruments Austin TX.....	215-250-9119
NEC America Inc Melville NY.....	516-753-7000
Optelecom Inc Gathersburg MD.....	301-840-2121
Optical Data Systems Inc Richardson TX.....	214-234-6400
Ortel Corp Alhambra CA.....	818-281-3636
Phalo Corp Optical Systems Div	
Simi Valley CA.....	805-522-3333
PlessCorp Optonics Inc Chatsworth CA.....	818-700-1233
Poly-Scientific Litton Systems Inc	
Blacksburg VA.....	703-552-3011
Power Technology Inc Little Rock AR.....	501-568-1995
Proteon Inc Natick MA.....	617-655-3340

Pulsar Products Inc Union City CA.....	415-487-5411
Raychem Corp Menlo Park CA.....	415-361-3331
Raycom Systems Inc Boulder CO.....	303-530-1611
RE Instruments Corp Westlake OH.....	216-871-7611
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX.....	214-996-5011
Ross Engineering Corp Campbell CA.....	408-377-4611
Sperry Corp Aerospace & Marine Group	
Phoenix AZ.....	602-869-2311
Times Fiber Communications Inc	
Wallingford CT.....	203-265-8511
Valdyne Engineering Corp Northridge CA.....	818-886-2011
Verstron Div Keene Corp Washington DC.....	202-722-8611
Whitmor Wire & Cable Corp	
North Hollywood CA.....	818-764-6211

FIBER OPTIC CABLES & COMPONENTS (INCL. FACEPLATES)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AMP INCORPORATED HARRISBURG PA	717-564-0100
CANON USA INC ELECTRONIC COMPONENTS DIV LAKE SUCCESS NY	516-488-6711
CORD ELECTRONICS INC WESTBURY NY	516-935-3611
OPTICAL DATA SYSTEMS INC RICHARDSON TX	214-234-6400
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2111
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6711
ADV PGS Green Pages/Footstrips	
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A C Interface Inc Huntington Beach CA.....	714-841-6011
ADC Telecommunications Minneapolis MN.....	612-835-6800
AEG Corporation Somerville NJ.....	201-722-9800
AID Electronics Inc Irving TX.....	214-790-4711
Amphenol Products Lisle IL.....	312-983-3511
AMP Incorporated Harrisburg PA.....	717-564-0100
AMP Products Corp Southeastern PA.....	215-647-1011
Andrew Corp Orlando Park IL.....	312-349-3311
Artel Communications Corp Worcester MA.....	617-752-5690
Augat Inc Attleboro MA.....	617-222-2202
Automatic Connector Inc Commack NY.....	516-543-5011
Autosplice Inc Woodside NY.....	718-429-0511
Banner Engineering Corp Minneapolis MN.....	612-544-3111
Belden Electronic Wire & Cable Richmond IN.....	317-983-5211
Berk-Tek Inc Reading PA.....	215-376-8011
Braxton Mfg Co Inc Watertown CT.....	203-274-6711
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT.....	203-456-8011
Canoga Data Systems Canoga Park CA.....	213-888-2011
Canon USA Inc Electronic Components Div	
Lake Success NY.....	516-488-6711
Canstar Communications Scarborough ON.....	416-293-9722
Codenoll Technology Corp Yonkers NY.....	914-965-6300
Computer Optical Products Inc	
Chatsworth CA.....	818-882-0411
Conax Buffalo Corp Buffalo NY.....	716-684-4511
Cord Electronics Inc Westbury NY.....	516-935-3611
Data Control Ltd Fiberoptics Div	
Palo Alto CA.....	415-494-1350
Dow Corning Corp Midland MI.....	517-496-4011
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EOtec Corp West Haven CT.....	203-934-7961
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FiberGuide Industries Inc Stirling NJ.....	201-647-6611
Fibronics International Hyannis MA.....	617-778-0700
Fotec Inc Boston MA.....	617-241-7810
Foundation Instruments Inc Nepean ON.....	613-226-4000
FSI/Fork Standards Inc Lombard IL.....	312-932-9311
Galileo Electro-Optics Corp Sturbridge MA.....	617-347-9111
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Glen Burnie MD.....	301-760-3111
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Titusville PA.....	814-589-7011
Harbor Electronics Inc Ridgefield CT.....	203-438-9611
Hewlett-Packard Palo Alto CA.....	415-857-8000
ICS Electronics Corp San Jose CA.....	408-263-4844
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Interoptics Burlington CA.....	415-347-7727
IR Scientific Carlisle MA.....	617-667-7111
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ITT Defense Communications Div Nutley NJ.....	201-284-0111
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Laser Precision Corp Utica NY.....	315-797-4411
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Lightwave Communications Inc Ridgefield CT.....	203-438-3591
Lightwave Technologies Inc Van Nuys CA.....	818-786-7811
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Math Associates Inc Westbury NY.....	516-334-6800
MEKontrol Inc Northboro MA.....	617-393-2451
Mico-Coax Components Inc Collegeville PA.....	215-489-3711
Mitsubishi Electronics America Inc	
Torrance CA.....	213-515-3911
Mitsumi Electronics Corp Melville NY.....	516-752-7711
Molex Inc Lisle IL.....	312-969-4511
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Orionics Div Ametek Bozeman MT.....	406-586-8211
Ortel Corp Alhambra CA.....	818-281-3611
Peerless Radio Corp Lynbrook NY.....	516-593-2111

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aychem Corp Menlo Park CA	415-361-3333
aycom Systems Inc Boulder CO	303-530-1620
ehlander Assocs Inc Beverly MA	617-922-5961
temee Wire Products Corp Florida NY	914-651-4431
ager Hingham MA	617-749-6700
choitt Electronics Ansonia CT	203-736-2677
elko Instruments & Electronics Ltd Tokyo Japan	03-682-1111
elko Instruments USA Inc Torrance CA	213-530-8777
lecor Corp Hickory NC	704-327-5000
kan-A-Matic Corp Elbridge NY	315-689-3961
erry Corp Aerospace & Marine Group Phoenix AZ	602-869-2311
erm-O-Disc Inc Mansfield OH	419-756-5911
omas & Betts Corp Electronics Group Raritan NJ	201-469-4000
mes Fiber Communications Inc Wallingford CT	203-265-8500
ra-Cor Inc Medford MA	617-391-5550
riplett Corp/A Penril Div Bluffton OH	419-358-5015
RW Connector Div Elk Grove Village IL	312-981-6000
RW Cylindrical Connectors Div Minneapolis MN	612-537-1010
Initiated Detector Technology Hawthorne CA	213-978-0516
S Components Inc Bohemia NY	516-589-8080
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ortex Electronics Inc Farmingdale NY	516-293-9880
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ndrew Corp Orland Park IL	312-349-3300
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VD Inc Woburn MA	617-933-9243
ata Control Ltd Fiberoptics Div Palo Alto CA	415-494-1350
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SI/Fork Standards Inc Lombard IL	312-932-9380
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ILMS

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Films

ILM THICKNESS CONTROLS & INDICATORS

See Controls—Thickness; Gages

or addresses, phones & sales offices, see green pages

FILTER CHOKES

See Coils

FILTER CRYSTALS

See Crystals

FILTER CRYSTAL UNITS

See Crystal Units

FILTER FORKS

See Tuning Forks

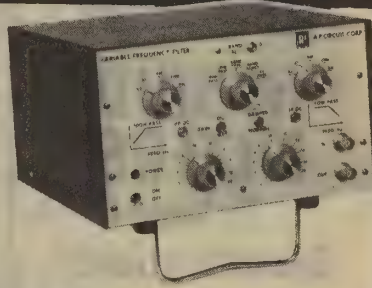
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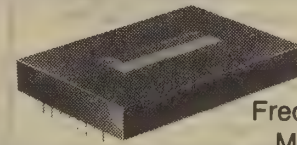
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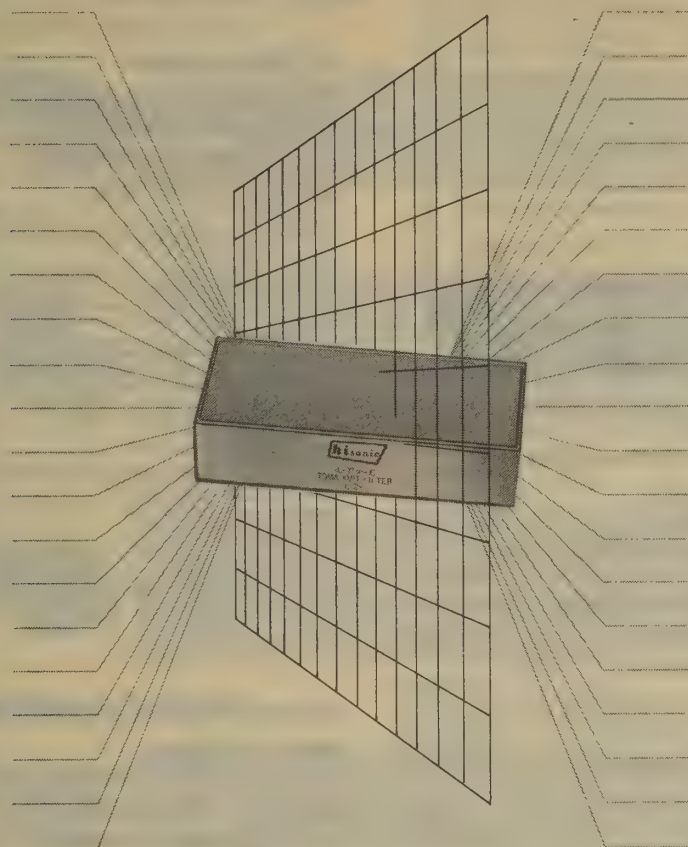
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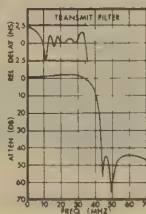
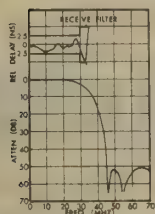
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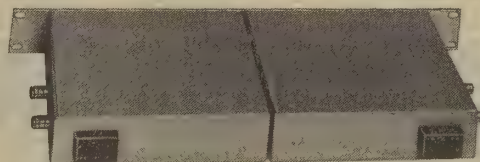
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Passive and active; sub-audio thru UHF, modern designs, delay corrected, Transnusul filters, specialized magnetics, wide band transformers, inductors, analog modules.

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ELECTRONIC PRECISION COMPONENTS

111W SANDFORD BLVD., MT. VERNON, NEW YORK 10550

Comstron Corp Freeport NY	516-546-9700
Cord Electronics Inc Westbury NY	516-935-3640
DeCoursey Engineering Lab Culver City CA	213-397-9688
Dietz Design Inc Belton MO	816-331-4911
Dowty RFL Industries Inc Commun	
Buonion NJ	201-334-3100
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
Electronic Precision Components Corp	
Mt Vernon NY	914-664-2333
Electronic Transformer Corp Totowa NJ	201-942-2222
Electro-Voice Inc Sub Gulton Industries	
Buchanan MI	616-695-6831
ESC Electronics Corp Palisades Park NJ	201-947-0400
E W C Inc Kenilworth NJ	201-245-3200
Filtron Co Inc Old Bethpage NY	516-752-1144
Filtronics Inc Kansas City MO	816-231-7375
Forbes & Wagner Inc Silver Creek NY	716-934-2691
Freed Transformer Co Inc Ridgewood NY	718-386-1300
Frequency Selective Networks Inc	
Woodside NY	718-424-7500
Hertz Filter Corp Syosset NY	516-822-4770
Hisonic Inc Olathe KS	913-782-0010
ILC Data Device Corp Bohemia NY	516-587-5600
K & L Microwave Inc Salisbury MD	301-749-2424
Kappa Networks Inc Rahway NJ	201-541-1600
Karkar Electronics Inc San Francisco CA	415-552-1247
K R Electronics Avenel NJ	201-636-1900
Linear Networks Co Westminster CA	213-430-9342
Magnetic Component Engineering Inc	
Culver City CA	213-398-4761
Magnetico Inc Holtsville NY	516-654-1166
Microsonics Inc Weymouth MA	617-337-4200
Murata Erie North America Inc Smyrna GA	404-436-1300
Optical Coating Lab Inc Santa Rosa CA	707-545-6440
OPT Industries Inc Phillipsburg NJ	201-454-2600
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Polyphase Instrument Co Ft Washington PA	215-643-6950
RLC Electronics Inc Mt Kisco NY	914-241-1334
SFE Technologies San Fernando CA	818-365-9411
Shure Brothers Inc Evanston IL	312-866-2200
Solar Electronics Co Hollywood CA	213-462-0806
Soshin Electric Co Ltd Tokyo Japan	03-775-2111
Stanford Applied Engineering Santa Clara CA	408-988-0700
Sterling Transformer Corp Brooklyn NY	718-782-4200
Systems Research Labs Inc Dayton OH	513-426-6000
SYT Corp El Paso TX	915-593-1234
Toko America Inc Mt Prospect IL	312-297-0070
Torotron Corp Mt Vernon NY	914-664-2054
T T E Inc Los Angeles CA	213-478-8224
Tucker Electronics Co Garland TX	214-348-8800
Western Microwave Sunnyvale CA	408-734-1631

FILTERS, A-F, PASSIVE—VARIABLE (EXCEPT INSTRUMENTS)

CORD ELECTRONICS INC WESTBURY NY	516-935-3640
ESC ELECTRONICS CORP	
PALISADES PARK NJ	201-947-0400
ADV PG 182	
T T E INC LOS ANGELES CA	213-478-8224
ADV PG 185	
Bruehl & Kjaer Instruments Inc Marlboro MA	617-481-7000
Brunswick Technetics San Diego CA	619-455-7260
Comstron Corp Freeport NY	516-546-9700
Cord Electronics Inc Westbury NY	516-935-3640
ESC Electronics Corp Palisades Park NJ	201-947-0400
E W C Inc Kenilworth NJ	201-245-3200
Freed Transformer Co Inc Ridgewood NY	718-386-1300
Kappa Networks Inc Rahway NJ	201-541-1600
Optical Coating Lab Inc Santa Rosa CA	707-545-6440
RLC Electronics Inc Mt Kisco NY	914-241-1334
Stanford Applied Engineering Santa Clara CA	408-988-0700
T T E Inc Los Angeles CA	213-478-8224

FILTERS—AIR & FLUID

See Cleaning Filters

FILTERS—ANTENNA (EXCEPT TV)

BIRD ELECTRONIC CORP	
CLEVELAND (SOLOH) OH	216-248-1200
CAPTOR CORP TIPP CITY OH	513-667-8484
ADV PG 188	
ELECTRONIC PRECISION COMPONENTS CORP	
MT VERNON NY	914-664-2333
ADV PG 184	
FILTRONICS INC KANSAS CITY MO	816-231-7375
ADV PG 186	
T T E INC LOS ANGELES CA	213-478-8224
ADV PG 185	
Altron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Alpha Components Inc Mechanicsburg PA	717-697-8595
American Nucleonics Corp Westlake Vlg CA	805-496-2405
Applied Research Inc Plainview NY	516-349-9200
Arra Inc Bay Shore NY	516-231-8400
Barker & Williamson Bristol PA	215-788-5581
Bell Industries J W Miller Div	
Rancho Dominguez CA	213-537-5200
Bird Electronic Corp Cleveland (Solon) OH	216-248-1200
Captor Corp Tipp City OH	513-667-8484
Comstron Corp Freeport NY	516-546-9700
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Decibel Products Inc Dallas TX	214-631-0310
Eastern Microwave Corp Woburn MA	617-935-8600
Electronic Precision Components Corp	
Mt Vernon NY	914-664-2333
Filtronics Inc Kansas City MO	816-231-7375
K & L Microwave Inc Salisbury MD	301-749-2424
Kappa Networks Inc Rahway NJ	201-541-1600
KDI Electronics Inc Whippany NJ	201-887-8100
K R Electronics Avenel NJ	201-636-1900
Lorch Electronics Corp Englewood NJ	201-569-8282
Magnetic Component Engineering Inc	
Culver City CA	213-398-4761
Micro-Coax Components Inc Collegeville PA	215-489-3700
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
OPT Industries Inc Phillipsburg NJ	201-454-2600
P G Electronics Ltd Weston ON	416-741-7682
Piezo Technology Inc Orlando FL	305-298-2000
Premier Microwave Corp Port Chester NY	914-939-8900
R F I Corp Bay Shore NY	516-231-8400
RLC Electronics Inc Mt Kisco NY	914-241-1334
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Soshin Electric Co Ltd Tokyo Japan	03-775-2111
Teledyne Microwave Mtn View CA	415-968-2211
T T E Inc Los Angeles CA	213-478-8224
Wide Band Engineering Co Inc Phoenix AZ	602-254-1570

FILTERS—ANTENNA, TV

BIRD ELECTRONIC CORP	
CLEVELAND (SOLOH) OH	216-248-1200
KVG FORT LAUDERDALE FL	305-771-3201
ADV PG 148	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
T T E INC LOS ANGELES CA	213-478-8224
ADV PG 185	
Arra Inc Bay Shore NY	516-231-8400
Bell Industries J W Miller Div	
Rancho Dominguez CA	213-537-5200
Bird Electronic Corp Cleveland (Solon) OH	216-248-1200
Blonder-Tongue Labs Inc Old Bridge NJ	201-679-4000
Cetec Antennas Div Cetec Corp	
Sacramento CA	916-383-1177
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
K & L Microwave Inc Salisbury MD	301-749-2424
KVG FORT LAUDERDALE FL	305-771-3201
Kyocera Intl Inc Elctn Comps Group	
San Diego CA	619-454-1800
Lorch Electronics Corp Englewood NJ	201-569-8282
Mobil Electronics Inc Anderson IN	317-642-7976
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Shokai Far East Ltd Hartsdale NY	914-681-0700
Soshin Electric Co Ltd Tokyo Japan	03-775-2111
Toko America Inc Mt Prospect IL	312-297-0070
T T E Inc Los Angeles CA	213-478-8224
Vician Inc San Diego CA	714-292-1411

Wide Band Engineering Co Inc Phoenix AZ	602-254-1570
Winogard Co Burlington IA	319-753-0101

FILTERS—CERAMIC

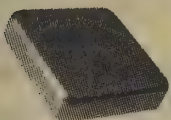
AMP INCORPORATED HARRISBURG PA	717-564-0100
CORD ELECTRONICS INC WESTBURY NY	516-935-3640
MURATA ERIE NORTH AMERICA INC	
SMYRNA GA	404-436-1300
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TDK CORP TOKYO JAPAN	03-278-5100
VERITRON PIEZOELECTRIC DIV	
BEDFORD OH	216-232-8600
ADV PG 82	
AMP Incorporated Harrisburg PA	717-564-0100
Capcon Inc New York NY	212-243-6200
Centre Engineering Inc State College PA	814-237-0030
Cord Electronics Inc Westbury NY	516-935-3640
Kyocera International Inc San Diego CA	619-454-1800
Kyocera Intl Inc Elctn Comps Group	
San Diego CA	619-454-1800
Murata Erie North America Inc Smyrna GA	404-436-1300
NTK Technical Ceramic Div Richardson TX	214-235-8300
Panasonic Co Electronic Components Div	
Secaucus NJ	201-348-5200
Piezo Technology Inc Orlando FL	305-298-2000
R F I Corp Bay Shore NY	516-231-8400
San Fernando Electric Div SFE	
San Fernando CA	818-365-9400
SFE Technologies San Fernando CA	818-365-9400
Shokai Far East Ltd Hartsdale NY	914-681-0700
Spectrum Control Inc Erie PA	814-455-0900
TDK Corp Tokyo Japan	03-278-5100
Toko America Inc Mt Prospect IL	312-297-0070
Tuxon Inc Tucson AZ	602-744-0400
U S Microtek Components Sun Valley CA	818-767-6700
Veritron Piezoelectric Div Bedford OH	216-232-8600
Vician Inc San Diego CA	714-292-1411

FILTERS—COAXIAL & WAVEGUIDE

BIRD ELECTRONIC CORP	
CLEVELAND (SOLOH) OH	216-248-1200
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
MURATA ERIE NORTH AMERICA INC	
SMYRNA GA	404-436-1300
SANDERS ASSOCIATES INC NASHUA NH	603-885-4300
ADV PG 190	
Altron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Applied Research Inc Plainview NY	516-349-9200
Arra Inc Bay Shore NY	516-231-8400
Bird Electronic Corp Cleveland (Solon) OH	216-248-1200
Capcon Inc New York NY	212-243-6200
Cetec Antennas Div Cetec Corp	
Sacramento CA	916-383-1177
Coleman Microwave Co Edinburg VA	703-984-8800
Decibel Products Inc Dallas TX	214-631-0310
Delta Microwave Inc Camarillo CA	805-987-6800
Dielectric Commn Unit General Signal	
Raymond ME	207-655-4500
Eastern Microwave Corp Woburn MA	617-935-8600
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9600
Gamma-F Corp Torrance CA	213-539-6700
Hewlett-Packard Palo Alto CA	415-857-8000
Integra Microwave Santa Clara CA	408-727-9600
K & L Microwave Inc Salisbury MD	301-749-2424
Kappa Networks Inc Rahway NJ	201-541-1600
KDI Electronics Inc Whippany NJ	201-887-8100
Kyocera Intl Inc Elctn Comps Group	
San Diego CA	619-454-1800
Lark Engineering Co Inc	
San Juan Capistrano CA	714-493-9500
Lorch Electronics Corp Englewood NJ	201-569-8282
Maury Microwave Corp Cucamonga CA	714-987-4700
Micro-Coax Components Inc Collegeville PA	215-489-3700
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Microwave Development Labs Inc Natick MA	617-655-0000
Microwave Engineering Corp	
North Andover MA	617-885-2700
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
Murata Erie North America Inc Smyrna GA	404-436-1300
North Hills Electronics Inc Glen Cove NY	516-671-5700
P G Electronics Ltd Weston ON	416-741-7682
Premier Microwave Corp Port Chester NY	914-939-8900
RLC Electronics Inc Mt Kisco NY	914-241-1334
Sage Laboratories Inc Natick MA	617-653-0800
Sanders Associates Inc Nashua NH	603-885-4300
Sealectro Corp Trumbull CT	203-372-4100
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Spectrum Control Inc Erie PA	814-455-0900
Struthers Electronics Corp Farmingdale NY	516-420-9000
Teledyne Microwave Mtn View CA	415-968-2211
Telonic/Berkeley Laguna Beach CA	714-494-9400
Texscan Corp Phoenix AZ	602-252-5000
Transco Products Inc Camarillo CA	805-987-2200
Triangle Microwave Inc East Hanover NJ	201-884-1400
Tru-Connector Corp Peabody MA	617-532-0700
UVE Microwave Inc Asbury Park NJ	201-922-1000
Varian Electron Device Group Palo Alto CA	415-493-4000
Vician Inc San Diego CA	714-292-1411
Victor Microwave Inc Wakefield MA	617-245-4400
Waveline Inc West Caldwell NJ	201-226-9100
Western Microwave Sunnyvale CA	408-734-1631
Wincom Corp Woburn MA	617-935-8600

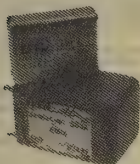
TTE, Incorporated

BANDPASS FILTERS



- Active Bandpass Filter 1-3 poles; Butterworth & Chebyshev Designs
- Passive Bandpass Filter 1-5 poles; Butterworth, Chebyshev & Elliptical Function Designs.

BANDREJECTION FILTERS



- Active Fix Tuned & Tunable Notch Filters
- Dual Function Bandpass/Bandrejection Filters
- Passive LCR Notch Filters, RC Twin-T Notch Filters and 3-5 pole Butterworth & Chebyshev Bandrejection Designs.

LOWPASS FILTERS



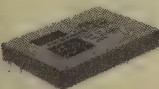
- Active Lowpass Filters, 2-10 poles, Bessel, Chebyshev, Butterworth & Elliptical Function Designs.
- Passive Lowpass Filters, 2-12 poles, Chebyshev, Bessel, Butterworth and Elliptical Function Designs.

HIGHPASS FILTERS



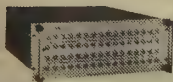
- Active Highpass Filters, 2-8 poles; Butterworth & Chebyshev Designs.
- Passive Highpass Filters, 2-12 poles; Butterworth, Chebyshev & Elliptical Function Designs.

PROGRAMMABLE FILTERS



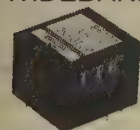
- Highpass and Lowpass Programmable Filters; Butterworth or Chebyshev types. Programmable range from $1 \times F_c$ to $128 \times F_c$. The (F_c) cut-off frequency range is 1Hz to 1000Hz.

FILTER SYSTEMS



- These rack mounting enclosures will accept from 1-36 filters. Any passive TTE® filter may be specified.

WIDEBAND TRANSFORMERS



- TTE miniature Transformers cover frequencies from 100Hz to 20MHz at 100mW, 500mW and 1 watt power levels.

LINEAR LABORATORY POWER SUPPLIES



- TTE's small laboratory power supplies are fixed, dual output types. They are available with either 100mA or 500mA current levels at ± 5 , ± 12 or ± 15 VDC. Typical cost is \$80.00 each.

Please request a complete catalog on the product(s) of your choice from TTE, Inc. at the address listed below.

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FILTRONETICS INC.

Quality Technology By Quality People.

PRODUCTS

LC and Crystal Filters — High Reliability, High Grade Commercial & Military Products.

- ▶ DC to 200MHz with capabilities to 1.2GHz
 - ▶ Band Pass
 - ▶ Band Reject
 - ▶ Phase Tracking
 - ▶ Low Pass
 - ▶ Single Side Band
- ▶ Active Tunable Equalizers
 - ▶ High Pass
 - ▶ Linear Phase
 - ▶ Passive Tunable Equalizers

To solve our clients' filter problems, **FILTRONETICS, Inc.** offers an engineering and management team with more than 80 years of combined experience in solving the most rigid filter requirements.

TESTING

Our new large facility contains the most sophisticated equipment available for **Computerized Testing, Graphic Representation, and Complete Data Printout.** All filters are strictly manufactured to your specifications with **100% Performance Test Data** supplied at no cost to you.

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If you would like a free brochure or if you have any questions, please give us a call today!

FILTRONETICS Technology

Quality Products · On Time Delivery · Competitive Pricing

6010 Parretta Drive · Kansas City, Missouri 64120

Telephone: (816) 231-7375

FAX 816-241-0368

FILTERS—COMB (EXCEPT TELEMETRY & CONTROL TONE SETS)

ANDERSEN LABORATORIES INC	203-242-0761
BLOOMFIELD CT	
ELECTRONIC PRECISION COMPONENTS CORP	
MT VERNON NJ	914-664-2331
ADV PG 184	
ESC ELECTRONICS CORP	
PALISADES PARK NJ	201-947-0400
ADV PG 182	
FILTRONETICS INC KANSAS CITY MO	816-231-7375
ADV PG 186	
FREQUENCY SELECTIVE NETWORKS INC	
WOODSIDE NY	718-424-7100
ADV PG 191	
HISONIC INC OLATHE KS	913-782-0011
ADV PG 183	
MURATA ERIE NORTH AMERICA INC	
SMYRNA GA	404-436-1310
ROCKWELL INTL/COLLINS MECHANICAL FILTERS	
COSTA MESA CA	714-641-5310
T T E INC LOS ANGELES CA	213-478-8210
ADV PG 185	
Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5511
Alpha Components Inc Mechanicsburg PA	717-697-8511
Andersen Laboratories Inc Bloomfield CT	203-242-0761
Applied Research Inc Plainview NY	516-349-9211
Arra Inc Bay Shore NY	516-231-8411
B G Electronics Inc Mount Vernon NY	914-664-5511
Blackhawk Networks Corp Janesville WI	608-752-8711
Chesterfield Products Inc Elmwood Park NJ	201-797-9611
Coleman Microwave Co Edinburg VA	703-984-8811
Comstron Corp Freeport NY	516-546-9711
Crystal Technology Inc Palo Alto CA	415-856-7911
Damon/Electronics Div Westwood MA	617-329-2411
DeCoursey Engineering Lab Culver City CA	213-397-9611
Electrac Inc Anaheim CA	714-879-6011
Electronic Precision Components Corp	
Mt Vernon NY	914-664-2311
ESC Electronics Corp Palisades Park NJ	201-947-0411
E W C Inc Kenilworth NJ	201-245-3211
Filtronetics Inc Kansas City MO	816-231-7311
Frequency Devices Inc Haverhill MA	617-374-0711
Frequency Selective Networks Inc	
Woodside NY	718-424-7511
Hisonic Inc Olathe KS	913-782-0011
Hughes Aircraft Co Microelectronic Circuits Div	
Newport Beach CA	714-759-2411
K & L Microwave Inc Salisbury MD	301-749-2411
K & L Quartztek Phoenix AZ	602-272-7911
K R Electronics Avenel NJ	201-636-1911
Lark Engineering Co Inc	
San Juan Capistrano CA	714-493-9511
Microsonics Inc Weymouth MA	617-337-4711
Murata Erie North America Inc Smyrna GA	404-436-1311
Premier Microwave Corp Port Chester NY	914-939-8911
RLC Electronics Inc Mt Kisco NY	914-241-1311
Rockwell Intl/Collins Mechanical Filters	
Costa Mesa CA	714-641-5311
Sinclair Radio Labs Inc Tonawanda NY	716-874-3611
Stanford Applied Engineering Santa Clara CA	408-988-0711
Struthers Electronics Corp Farmingdale NY	516-420-9011
Teledyne Microwave Mtn View CA	415-968-2211
Telonic/Berkeley Laguna Beach CA	714-494-9411
Transco Products Inc Camarillo CA	805-987-2211
T T E Inc Los Angeles CA	213-478-8211
UTE Microwave Inc Asbury Park NJ	201-922-1011
Western Microwave Sunnyvale CA	408-734-1611
Wincom Corp Woburn MA	617-935-6011

FILTERS—CRYSTAL

CORD ELECTRONICS INC WESTBURY NY	516-935-3611
FILTRONETICS INC KANSAS CITY MO	816-231-7311
ADV PG 186	
FREQUENCY SELECTIVE NETWORKS INC	
WOODSIDE NY	718-424-7111
ADV PG 191	
ITT COMPONENTS DIV SANTA ANA CA	714-836-0011
KVG FORT LAUDERDALE FL	305-771-3211
ADV PG 148	
MURATA ERIE NORTH AMERICA INC	
SMYRNA GA	404-436-1311
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0711
VERNITRON PIEZOELECTRIC DIV	
BEDFORD OH	216-232-8411
ADV PG 82	
Advanced Filter Devices Inc Carlsbad CA	619-438-2111
Alpha Components Inc Mechanicsburg PA	717-697-8511
American Trans-Coll Corp Richmond Hill NY	718-441-1511
Binatron Inc Tustin CA	714-669-9211
Blackhawk Networks Corp Janesville WI	608-752-8711
Comstron Corp Freeport NY	516-546-9711
Cord Electronics Inc Westbury NY	516-935-3611
Crystal Technology Inc Palo Alto CA	415-856-7911
CTS Corp Elkhart IN	219-293-7111
CTS Knights Inc Sandwich IL	815-786-8111
Damon/Electronics Div Westwood MA	617-329-2411
Filtronetics Inc Kansas City MO	816-231-7311
Frequency & Time Systems Inc Beverly MA	617-927-8111
Frequency Electronics Mitchell Field NY	516-794-4111
Frequency Selective Networks Inc	
Woodside NY	718-424-7111
Hughes Aircraft Co Microelectronic Circuits Div	
Newport Beach CA	714-759-2411
ITT Components Div Santa Ana CA	714-836-0011
K & L Microwave Inc Salisbury MD	301-749-2411
K & L Quartztek Phoenix AZ	602-272-7911
Kappa Networks Inc Rahway NJ	201-541-1111
Karkar Electronics Inc San Francisco CA	415-552-1111
KVG Fort Lauderdale FL	305-771-3211
McCoy Electronics Co Mt Holly Springs PA	717-486-3111
Microsonics Inc Weymouth MA	617-337-4711
Monitor Products Co Inc Oceanside CA	619-433-4111

Motorola Inc Component Products	
Franklin Park IL.....	312-451-1000
Murata Erie North America Inc Smyrna GA.....	404-436-1300
OPT Industries Inc Phillipsburg NJ.....	201-454-2600
Panasonic Co Electronic Components Div	
Secaucus NJ.....	201-348-5200
Philips Electronic Comps & Matis Div	
Eindhoven Netherlands.....	040791111
Piezo Crystal Co Carlisle PA.....	717-249-2151
Piezo Technology Inc Orlando FL.....	305-298-2000
Reeves-Hoffman Div Carlisle PA.....	717-243-5929
Sawtek Inc Orlando FL.....	305-886-8860
Shokal Far East Ltd Hartsdale NY.....	914-681-0700
Vernitron Piezoelectric Div Bedford OH.....	216-232-8600

FILTERS—CRYSTAL, MONOLITHIC

CORD ELECTRONICS INC WESTBURY NY.....		516-935-3640
KVG FORT LAUDERDALE FL.....		305-771-3201
ADV PG 148		
MURATA ERIE NORTH AMERICA INC		
SMYRNA GA.....		404-436-1300
Alpha Components Inc Mechanicsburg PA.....		717-697-8595
American Trans-Coil Corp Richmond Hill NY.....		718-441-5207
Cord Electronics Inc Westbury NY.....		516-935-3640
Crystal Technology Inc Palo Alto CA.....		415-856-7911
CTS Corp Elkhart IN.....		219-293-7511
DTS Knights Inc Sandwich IL.....		815-786-8411
Damon Electronics Div Westwood MA.....		617-329-2460
Fox Electronics Ft Myers FL.....		813-462-7212
K & L Microwave Inc Salisbury MD.....		301-749-2424
K & L Quartztek Phoenix AZ.....		602-272-7945
KVG Fort Lauderdale FL.....		305-771-3201
Monitor Products Co Inc Oceanside CA.....		619-433-4510
Motorola Inc Component Products		
Franklin Park IL.....		312-451-1000
Murata Erie North America Inc Smyrna GA.....		404-436-1300
Philips Electronic Comps & Matis Div		
Eindhoven Netherlands.....		040791111
Piezo Crystal Co Carlisle PA.....		717-249-2151
Piezo Technology Inc Orlando FL.....		305-298-2000
Reeves-Hoffman Div Carlisle PA.....		717-243-5929
Savoy Electronics Inc Ft Lauderdale FL.....		305-563-1333

FILTERS—DIGITAL (LOGIC ASSEMBLY)

A-Systems Inc Charlottesville VA.....		804-295-7200
Jalmos Systems Inc Kanata ON.....		613-836-1014
Jermetek Microelectronics Inc Sunnyvale CA.....		408-752-5000
Ji-Coil Co Inc Garden City NY.....		516-294-5445
Interactive Circuits & Systems Ltd		
Ottawa ON.....		613-521-0590
K & L Microwave Inc Salisbury MD.....		301-749-2424
ocus Inc State College PA.....		814-466-6275
Itanor Products/Hamilton Standard Controls		
Logansport IN.....		219-722-2244
eodyne Microelectronics Los Angeles CA.....		213-870-9831
oko America Inc Mt Prospect IL.....		312-297-0070
RW LSI Products Div LaJolla CA.....		619-457-1000

FILTERS—EMI/RFI

See Filters, Pin & Radio Interference

FILTERS—FLUID

See Cleaning Filters

FILTERS—I-F CIRCUITS & MODULES

ANDERSEN LABORATORIES INC	
BLOOMFIELD CT	203-242-0761
ORD ELECTRONICS INC WESTBURY NY.....	516-935-3640
LECTRONIC PRECISION COMPONENTS CORP	
MT VERNON NY.....	914-664-2333
ADV PG 184	
ILTRONETICS INC KANSAS CITY MO.....	816-231-7375
ADV PG 186	
FREQUENCY SELECTIVE NETWORKS INC	
WOODSIDE NY.....	718-424-7500
ADV PG 191	
ISONIC INC OLATHE KS	913-782-0012
ADV PG 183	
VG FORT LAUDERDALE FL.....	305-771-3201
ADV PG 148	
ROCKWELL INTL/COLLINS MECHANICAL FILTERS	
COSTA MESA CA	714-641-5311
T E INC LOS ANGELES CA.....	213-478-8224
ADV PG 185	
Alpha Components Inc Mechanicsburg PA.....	717-697-8595
merican Trans-Coil Corp Richmond Hill NY.....	718-441-5207
MP Products Corp Southeastern PA.....	215-647-1000
nderen Laboratories Inc Bloomfield CT	203-242-0761
arra Inc Bay Shore NY.....	516-231-8400
F Electronics Solana Beach CA.....	619-755-1881
ommunitronics Ltd Bohemia NY.....	516-567-8320
omstron Corp Freeport NY.....	516-546-9700
ord Electronics Inc Westbury NY.....	516-935-3640
ornell-Dubilier Electronics Wayne NJ.....	201-256-2000
ystal Technology Inc Palo Alto CA.....	415-856-7911
lectronic Precision Components Corp	
Mt Vernon NY.....	914-664-2333
iltronetics Inc Kansas City MO.....	816-231-7375
requency & Time Systems Inc Beverly MA.....	617-927-8220
requency Selective Networks Inc	
Woodside NY.....	718-424-7500
ewlett-Packard Palo Alto CA	415-857-8000

Hisonic Inc Olathe KS.....		913-782-0012
K & L Microwave Inc Salisbury MD.....		301-749-2424
K & L Quartztek Phoenix AZ.....		602-272-7945
K R Electronics Avenel NJ.....		201-636-1900
KVG Fort Lauderdale FL.....		305-771-3201
Lark Engineering Co Inc		
San Juan Capistrano CA.....		714-493-9501
M/A COM Microwave Circuits Inc		
Burlington MA.....		617-272-3000
Magnetic Component Engineering Inc		
Culver City CA.....		213-398-4761
MITEQ Inc Hauppauge NY.....		516-543-8873
Mitsumi Electronics Corp Melville NY.....		516-752-7730
Mu-Del Electronics Inc Silver Spring MD.....		301-587-6087
National Semiconductor Corp Santa Clara CA.....		408-721-5000
Oklahoma Aerotronics Inc Hartshorne OK.....		918-297-2566
Piezo Crystal Co Carlisle PA.....		717-249-2151
Piezo Technology Inc Orlando FL.....		305-298-2000
Polyphase Instrument Co Ft Washington PA.....		215-643-6950
Rockwell Intl/Collins Mechanical Filters		
Costa Mesa CA.....		714-641-5311
Sawtek Inc Orlando FL.....		305-886-8860
Stanford Applied Engineering Santa Clara CA.....		408-988-0700
Toko America Inc Mt Prospect IL.....		312-297-0070
TRW Electronic Assemblies Div Wheeling IL.....		312-319-0500
T T E Inc Los Angeles CA.....		213-478-8224
U S Microtek Components Sun Valley CA.....		818-767-6770
White Technology Inc Phoenix AZ.....		602-437-1520

FILTERS—INSTRUMENTS (INCL. TEST & CHANNEL SIMULATION FILTER SYSTEMS)

A P CIRCUIT CORP NEW YORK NY.....		212-737-1348
ADV PG 181		
ESC ELECTRONICS CORP		
PALISADES PARK NJ.....		201-947-0400
ADV PG 182		
FILTRON CO INC OLD BETHPAGE NY.....		516-752-1144
ADV PG 191		
FILTRONETICS INC KANSAS CITY MO.....		816-231-7375
ADV PG 186		
FREQUENCY SELECTIVE NETWORKS INC		
WOODSIDE NY.....		718-424-7500
ADV PG 191		
HISONIC INC OLATHE KS.....		913-782-0012
ADV PG 183		
ROCKWELL INTL/COLLINS MECHANICAL FILTERS		
COSTA MESA CA.....		714-641-5311
Alpha Components Inc Mechanicsburg PA.....		717-697-8595
A P Circuit Corp New York NY.....		212-737-1348
Axi Electronics Inc Jamaica NY.....		718-291-3900
Chesterfield Products Inc Elmwood Park NJ.....		201-797-9655
Coil-O Corp Bronxville NY.....		914-337-4775
Comstron Corp Freeport NY.....		516-546-9700
Control Concepts Corp Binghamton NY.....		607-724-2484
Dynamics Electronic Products Inc		
Chatsworth CA.....		818-998-0121
Electrac Inc Anaheim CA.....		714-879-6021
ESC Electronics Corp Palisades Park NJ.....		201-947-0400
Filtron Co Inc Old Bethpage NY.....		516-752-1144
Filtronetics Inc Kansas City MO.....		816-231-7375
Frequency Devices Inc Haverhill MA.....		617-374-0761
Frequency Selective Networks Inc		
Woodside NY.....		718-424-7500
Gen Rad Inc Waltham MA.....		617-369-4400
Hisonic Inc Olathe KS.....		913-782-0012
Ithaco Inc Ithaca NY.....		607-272-7640
K & L Microwave Inc Salisbury MD.....		301-749-2424
Krohn-Hite Corp Avon MA.....		617-580-1660
Locus Inc State College PA.....		814-466-6275
Lorch Electronics Corp Englewood NJ.....		201-569-8282
Marconi Instruments Div Marconi Elctns Inc		
Allendale NJ.....		201-934-9050
Marel Instrument Co Cape Coral FL.....		813-574-8788
OPT Industries Inc Phillipsburg NJ.....		201-454-2600
Precision Filters Inc Ithaca NY.....		607-277-3550
RLC Electronics Inc Mt Kisco NY.....		914-241-1334
Rockwell Intl/Collins Mechanical Filters		
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Stanford Applied Engineering Santa Clara CA.....		408-988-0700
Tektronix Inc Beaverton OR.....		800-547-6711
Texscan Corp Phoenix AZ.....		602-252-5021
Unholtz-Dickie Corp Wallingford CT.....		203-265-3929
Wandel & Goltermann Inc		
Research Triangle Pk NC.....		919-544-8450
Waugh Controls Corp Chatsworth CA.....		818-998-8281

FILTERS—MECHANICAL (EXCEPT TELEMETRY & CONTROL TONE SETS)

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COSTA MESA CA	714-641-5311
ADV PG 187	
VERNITRON PIEZOELECTRIC DIV	
BEDFORD OH	216-232-8600
ADV PG 82	
Fil-Coil Co Inc Garden City NY	516-294-5445
Hughes Aircraft Co Microelectronic Circuits Div	
Newport Beach CA	714-759-2411
Lorch Electronics Corp Englewood NJ	201-569-8282
NTK Technical Ceramic Div Richardson TX	214-235-8332
Rockwell Intl / Collins Mechanical Filters	
Costa Mesa CA	714-641-5311
Seiko Instruments USA Inc Torrance CA	213-530-8777
Toko America Inc Mt Prospect IL	312-297-0070
Vernitron Piezoelectric Div Bedford OH	216-232-8600
Western Microwave Sunnyvale CA	408-734-1631

FILTERS—MICROWAVE

See Microwave Circuits; Microwave Filters

Collins Mechanical Filters

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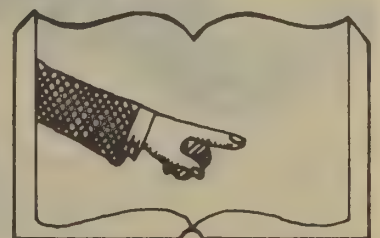
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ADV PG 189	
ESC ELECTRONICS CORP	
PALISADES PARK NJ	201-947-0400
ADV PG 182	
IDUS-TOOL CORP CHICAGO IL	312-648-2191
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SMYRNA GA	404-436-1300
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ADV PG 493	
JWER DYNAMICS INC	
WEST ORANGE NJ	201-736-5722
JK CORP TOKYO JAPAN	03-278-5111
ADV PGS 189,190	
TE INC LOS ANGELES CA	213-478-8224
ADV PG 185	
Wilton Co Inc Cleveland OH	216-237-9630
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P Circuit Corp New York NY	212-737-1348
Radio-Video Engineering Co Merrick NY	516-546-4239
Rel Electronics Inc Jamaica NY	718-291-3900
Rel Industries J W Miller Div	
Rancho Dominguez CA	213-537-5200
Capcon Inc New York NY	212-243-6275
Captor Corp Tipp City OH	513-667-8484
Control Concepts Corp Binghamton NY	607-724-2484
Corcom Inc Libertyville IL	312-680-7400
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ESC Electronics Corp Palisades Park NJ	201-947-0400
Coil Co Inc Garden City NY	516-294-5445
Frequency Devices Inc Haverhill MA	617-374-0761
Rel Electronics Div Household Int'l	
Rockford IL	815-968-9661
Just-Tool Corp Chicago IL	312-648-2191
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Coera Int'l Inc Elctn Comps Group	
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Jwer Dynamics Inc West Orange NJ	201-736-5722
Rel Inc Greenwich CT	203-625-7300
Rel Corp Skokie IL	312-679-7180
Anchor Products/Hamilton Standard Controls	
Logansport IN	219-722-2244
Standard Condenser Corp Chicago IL	312-327-5440
Index Electronics Cincinnati OH	513-871-3777
JK Corp Tokyo Japan	03-278-5111
Ko America Inc Mt Prospect IL	312-297-0070
TE Inc Los Angeles CA	213-478-8224
Rel Inc San Diego CA	714-292-1411
Atkins-Johnson Co Palo Alto CA	415-493-4141

FILTERS—OPTICAL

See Infrared Optical Components; Optical Components

FILTERS—PIN (CONNECTOR & PACKAGE FEEDTHROUGH)

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URATA ERIE NORTH AMERICA INC	
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phenol Products Lisle IL	312-983-3500
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Capcon Inc New York NY	212-243-6275
Control Concepts Corp Binghamton NY	607-724-2484
Nag Corp Newark NJ	201-481-1600
Urata ERIE North America Inc Smyrna GA	404-436-1300
Key Developments Co Ltd	
Jiverston Cumbria England	0229-52621
Rel Corp Bay Shore NY	516-231-6400
C Electronics Inc Mt Kisco NY	914-241-1334
on Corp Skokie IL	312-679-7180
ectrum Control Inc Erie PA	814-455-0966
JK Corp Tokyo Japan	03-278-5111
W Cylindrical Connectors Div	
Minneapolis MN	612-537-1010
S Microtek Components Sun Valley CA	818-767-6770
lan Inc San Diego CA	714-292-1411

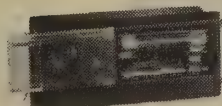
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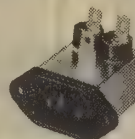
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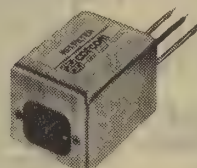
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CORCOM INC LIBERTYVILLE IL	312-680-7400
ADV PG 189	
ESC ELECTRONICS CORP	
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ADV PG 182	
FILTRON CO INC OLD BETHPAGE NY	516-752-1144
ADV PG 191	
FILTRONICS INC KANSAS CITY MO	816-231-7375
ADV PG 186	
FREQUENCY SELECTIVE NETWORKS INC	
WOODSIDE NY	718-424-7500
ADV PG 191	
HISONIC INC OLATHE KS	913-782-0012
ADV PG 183	
MURATA ERIE NORTH AMERICA INC	
SMYRNA GA	404-436-1300
ADV PG 190	
POWER DYNAMICS INC	
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SAGER HINGHAM MA	617-749-6700
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SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
ADV PG 190	
TDK CORP TOKYO JAPAN	03-278-5111
ADV PGS 189,190	
Aeroflex Labs Inc Plainview NY	516-694-6700
Aerovox Inc New Bedford MA	617-994-9661
American Nucleonics Corp Westlake Vlg CA	805-496-2405
AMP Incorporated Harrisburg PA	717-564-0100
Andersen Laboratories Inc Bloomfield CT	203-242-0761
ARK Electronics Corp Southampton PA	215-322-6510
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Axel Electronics Inc Jamaica NY	718-291-3900
Bell Industries J W Miller Div	
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Bruce Electric Equipment Corp	
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Capcon Inc New York NY	212-243-6275
Captor Corp Tipp City OH	513-667-8484
Centre Engineering Inc State College PA	814-237-0321
Coil-Q Corp Bronxville NY	914-337-4775
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Eaton Corp Elctn Inst Div Ronkonkoma NY.....	516-588-3600
Electrocube San Gabriel CA.....	213-573-3300
Elmag Corp Newark NJ.....	201-481-1600
ESC Electronics Corp Palisades Park NJ.....	201-947-0400
Estes Engineering Co Port Angeles WA.....	206-457-0904
Ferrocube Saugerties NY.....	914-246-2811
Fil-Coil Co Inc Garden City NY.....	516-294-5445
Filter Concepts Inc Santa Ana CA.....	714-545-7003
Filtron Co Inc Old Bethpage NY.....	516-752-1144
Filtronics Inc Kansas City MO.....	816-231-7375
Frequency Selective Networks Inc	
Woodside NY.....	718-424-7500
GC Electronics Div Household Intl	
Rockford IL.....	815-968-9661
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Hopkins Engineering Co San Fernando CA.....	213-361-8691
JMK Inc Amherst NH.....	603-886-4100
Kalgio Electronics Co Inc Bethlehem PA.....	215-837-0700
K & L Microwave Inc Salisbury MD.....	301-749-2424
KOA Speer Electronics Inc Bradford PA.....	814-362-5536
Kyocera Intl Inc Elctn Comps Group	
San Diego CA.....	619-454-1800
Lambda Electronics Melville NY.....	516-694-4200
LEA Dynatech Inc Santa Fe Springs CA.....	213-944-0916
Mitel Corp Semiconductor Div Kanata ON.....	613-592-5630
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Plainview NY.....	516-420-8990
Potter Co A Varian Div Wesson MS.....	601-643-2215
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Rifa Inc Greenwich CT.....	203-625-7300
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San Fernando CA.....	818-365-9411
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SFE Technologies San Fernando CA.....	818-365-9411
Siemens Components Inc Iselin NJ.....	201-321-3400
Sinclair Radio Labs Inc Tonawanda NY.....	716-874-3682
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SPC Technology Bensenville IL.....	312-766-6711
Spectrum Control Inc Erie PA.....	814-455-0966
Sprague Electric Co Lexington MA.....	617-862-5500
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Logansport IN.....	219-722-2244
Standard Condenser Corp Chicago IL.....	312-327-5440

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TRW Electronic Assemblies Div Wheeling IL.....	312-319-0500
Tusonix Inc Tucson AZ.....	602-744-0407
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Vician Inc San Diego CA.....	714-292-1411
Wacom Products Inc Waco TX.....	817-848-4433

FILTERS, RF, ACTIVE—FIXED CIRCUITS & MODULES

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ADV PG 181	
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B F Electronics Solana Beach CA.....	619-755-1888
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M/A COM Microwave Circuits Inc	
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Sealectro Corp Trumbull CT.....	203-372-4111
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FILTERS, RF, ACTIVE—TRACKING

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ADV PG 186	
Alpha Components Inc Mechanicsburg PA.....	717-697-8589
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B F Electronics Solana Beach CA.....	619-755-1888
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K & L Microwave Inc Salisbury MD.....	301-749-2424
M/A COM Microwave Circuits Inc	
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OPT Industries Inc Phillipsburg NJ.....	201-454-2600
Premier Microwave Corp Port Chester NY.....	914-939-8930
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Zeta Labs Inc Sub CCT Santa Clara CA.....	408-727-6000

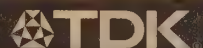
FILTERS, RF, ACTIVE—VARIABLE, NON-TRACKING (EXCEPT INSTRUMENTS)

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Electrac Inc Anaheim CA.....	714-879-6002
Harris Corp RF Commun Grp Rochester NY.....	716-244-5888
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North Hills Electronics Inc Glen Cove NY.....	516-671-5700
Teledyne Microelectronics Los Angeles CA.....	213-870-9883
Texcon Corp Phoenix AZ.....	602-252-5000
Toko America Inc Mt Prospect IL.....	312-297-0070
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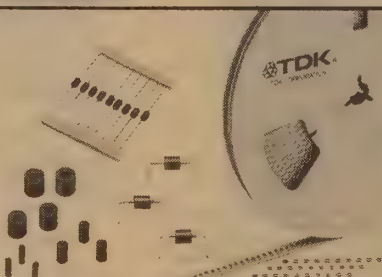
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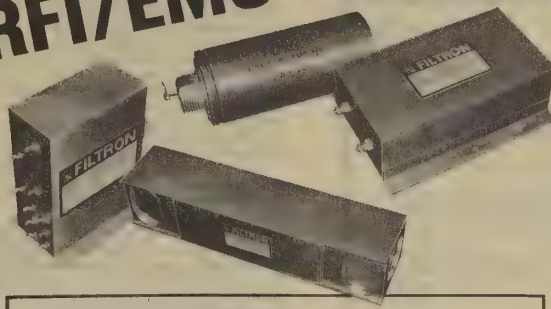
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pectrum Control Inc Erie PA	814-455-0966
tanford Applied Engineering Santa Clara CA	408-988-0700
truthers Electronics Corp Farmingdale NY	516-420-9000
teledyne Microelectronics Los Angeles CA	213-870-9831
teledyne Microwave Mtn View CA	415-968-2211
telonic/Berkeley Laguna Beach CA	714-494-9401
oko America Inc Mt Prospect IL	312-297-0070

Transco Products Inc Camarillo CA	805-987-2201
Triangle Microwave Inc East Hanover NJ	201-884-1423
TRW Electronic Assemblies Div Wheeling IL	312-319-0500
T T E Inc Los Angeles CA	213-478-8224
Tucker Electronics Co Garland TX	214-348-8800
U S Microtek Components Sun Valley CA	818-767-6770
Vanguard Electronics Gardena CA	213-323-4100
Viclan Inc San Diego CA	714-292-1411
Watkins-Johnson Co Palo Alto CA	415-493-4141
Wavetek Indiana Inc Beech Grove IN	317-787-3332
Western Microwave Sunnyvale CA	408-734-1631
Wide Band Engineering Co Inc Phoenix AZ	602-254-1570
Wiltron Co Morgan Hill CA	408-778-2000
Wincom Corp Woburn MA	617-935-6212
Winegard Co Burlington IA	319-753-0121

FILTERS, RF, PASSIVE-VARIABLE (EXCEPT INSTRUMENTS)

CORD ELECTRONICS INC WESTBURY NY	516-935-3640
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
TDK CORP TOKYO JAPAN	03-278-5111
Airtron Div Litton Systems Inc Morris Plains NJ	201-539-5500
American Trans-Coil Corp Richmond Hill NY	718-441-5207
Applied Research Inc Plainview NY	516-349-9200
Arra Inc Bay Shore NY	516-231-8400
Axel Electronics Inc Jamaica NY	718-291-3900
Blonder-Tongue Labs Inc Old Bridge NJ	201-679-4000
Chil-Q Corp Bronxville NY	914-337-4775
Coleman Microwave Co Edinburg VA	703-984-8848
Comstron Corp Freeport NY	516-546-9700
Control Concepts Corp Binghamton NY	607-724-2484
Cord Electronics Inc Westbury NY	516-935-3640
Cramer Coil & Transformer Co Inc Saukville WI	414-284-9425
Delta Microwave Inc Camarillo CA	805-987-6892
K & L Microwave Inc Salisbury MD	301-749-2424
Lark Engineering Co Inc San Juan Capistrano CA	714-493-9501
Lorch Electronics Corp Englewood NJ	201-569-8282
Magnetic Component Engineering Inc Culver City CA	213-398-4761
Metropole Products Inc Stafford VA	703-659-2132
North Hills Electronics Inc Glen Cove NY	516-671-5700
P G Electronics Ltd Weston ON	416-741-7682
RLC Electronics Inc Mt Kisco NY	914-241-1334
Shelley-Ragon Inc St Paul MN	612-542-2828
Sinclair Radio Labs Inc Tonawanda NY	716-874-3682
Stanford Applied Engineering Santa Clara CA	408-988-0700
Struthers Electronics Corp Farmingdale NY	516-420-9000
TDK Corp Tokyo Japan	03-278-5111
Teledyne Microelectronics Los Angeles CA	213-870-9831
Telonic/Berkeley Laguna Beach CA	714-494-9401
Texscan Corp Phoenix AZ	602-252-5021
Toko America Inc Mt Prospect IL	312-297-0070
Triangle Microwave Inc East Hanover NJ	201-884-1423
Watkins-Johnson Co Palo Alto CA	415-493-4141
Western Microwave Sunnyvale CA	408-734-1631

FILTERS—SURFACE ACOUSTIC WAVE (SAW)

ANDERSEN LABORATORIES INC BLOOMFIELD CT	203-242-0761
ADV PG 193	
Andersen Laboratories Inc Bloomfield CT	203-242-0761
Crystal Technology Inc Palo Alto CA	415-856-7911
Damon/Electronics Div Westwood MA	617-329-2460
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Kyocera International Inc San Diego CA	619-454-1800
Mitsumi Electronics Corp Melville NY	516-752-7730
RF Monolithics Inc Dallas TX	214-233-2903
Sawtek Inc Orlando FL	305-886-8860
Siemens Components Inc Iselin NJ	201-321-3400
Teledyne Microelectronics Los Angeles CA	213-870-9831
Toko America Inc Mt Prospect IL	312-297-0070
Zenith Electronics Corp Sys & Comps Grp Glenview IL	312-391-7733

FILTERS—TELEMETRY & CONTROL TONE SETS

ALLEN AVIONICS INC DIV A K ALLEN CO INC MINEOLA NY	516-248-8080
ADV PG 192	
A P CIRCUIT CORP NEW YORK NY	212-737-1348
ADV PG 181	
ESC ELECTRONICS CORP PALISADES PARK NJ	201-947-0400
ADV PG 182	
FILTRON CO INC OLD BETHPAGE NY	516-752-1144
ADV PG 191	
FILTRONETICS INC KANSAS CITY MO	816-231-7375
ADV PG 186	
FREQUENCY SELECTIVE NETWORKS INC WOODSIDE NY	718-424-7500
ADV PG 191	
HISONIC INC OLATHE KS	913-782-0012
ADV PG 183	
ROCKWELL INTL/COLLINS MECHANICAL FILTERS COSTA MESA CA	714-641-5311
T T E INC LOS ANGELES CA	213-478-8224
ADV PG 185	
VERINTRON PIEZOELECTRIC DIV BEDFORD OH	216-232-8600
ADV PG 82	
Allen Avionics Inc Div A K Allen Co Inc Mineola NY	516-248-8080
American Microsignal Corp Stanton CA	714-761-1222
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B G Electronics Inc Mount Vernon NY	914-664-5591
Circuit Technology Inc Farmingdale NY	516-293-8686
Communifonics Ltd Bohemia NY	516-567-8320
Comstron Corp Freeport NY	516-546-9700
Data-Control Systems A CompuDyne Co Rockville MD	301-279-8798
Da-Tel Research Co Inc Montrose CO	303-249-6129
Dietz Design Inc Belton MO	816-331-4911
Dowty RFL Industries Inc Commun Boonton NJ	201-334-3100
ESC Electronics Corp Palisades Park NJ	201-947-0400
E W C Inc Kentilworth NJ	201-245-3200
Fairchild Weston Systems Inc Sarasota FL	813-371-0811
Filtron Co Inc Old Bethpage NY	516-752-1144
Filtronetics Inc Kansas City MO	816-231-7375
Forbes & Wagner Inc Silver Creek NY	716-934-2691
Freed Transformer Co Inc Ridgewood NY	718-386-1300
Frequency Devices Inc Haverhill MA	617-374-0761
Frequency Selective Networks Inc Woodside NY	718-424-7500
GTE Microcircuits Tempe AZ	602-968-4431
Hisonic Inc Olathe KS	913-782-0012
K & L Microwave Inc Salisbury MD	301-749-2424
Magnetic Component Engineering Inc Culver City CA	213-398-4761
Polyphase Instrument Co Ft Washington PA	215-643-6950
Premier Microwave Corp Port Chester NY	914-939-8900
Rockwell Intl/Collins Mechanical Filters Costa Mesa CA	714-641-5311
Seiko Instruments USA Inc Torrance CA	213-530-8777
Stanford Applied Engineering Santa Clara CA	408-988-0700
Telonic/Berkeley Laguna Beach CA	714-494-9401
Torotron Corp Mt Vernon NY	914-664-2050
T T E Inc Los Angeles CA	213-478-8224
Vanguard Electronics Gardena CA	213-323-4100
Vernitron Piezoelectric Div Bedford OH	216-232-8600

FILTERS—TOWER LIGHTING

Bell Industries J W Miller Div	
Bancho Dominguez CA	213-537-5200
Control Concepts Corp Binghamton NY	607-724-2484
Rifa Inc Greenwich CT	203-625-7300
UNR-Rohn Peoria IL	309-697-4400

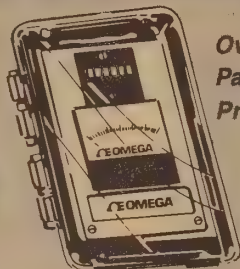
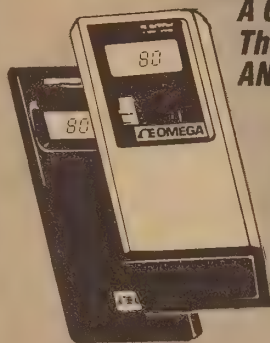
FILTERS—TUNING FORK

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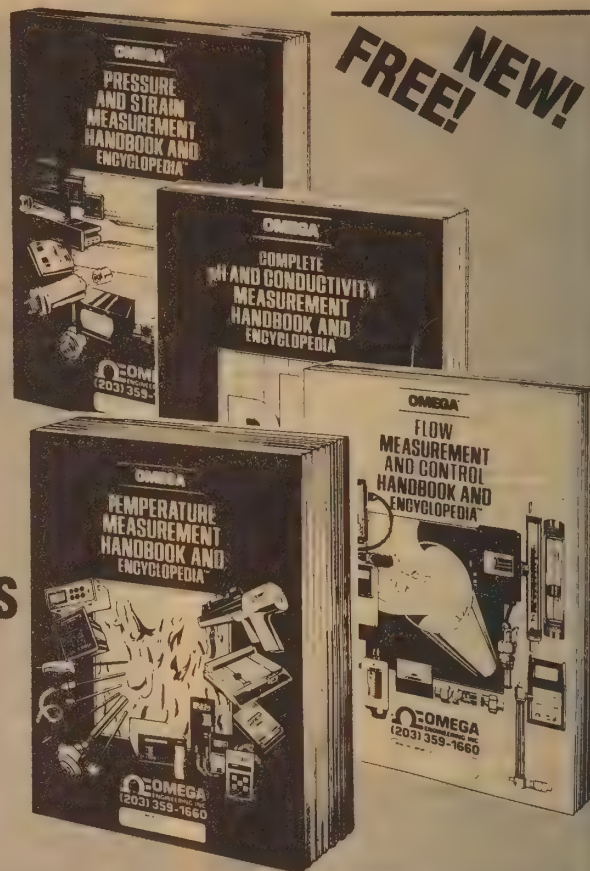


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See Gloves & Finger Cots

FIRE CONTROL SYSTEMS

See Computers; Radar

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SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Accurate Electronics Corp Elyria OH	216-365-1211
Aristo-Craft New York NY	212-924-4041
Armtec Industries Inc Manchester NH	603-669-0940
Computrol Div Kidde Automated Sys Inc Ridgfield CT	203-544-9371
Daven Components Grp Armtec Indus Inc Manchester NH	603-669-0940
Dewey Electronics Corp Oakland NJ	201-337-4700
Eltec Instruments Inc Daytona Beach FL	904-253-5328
Fenwal Inc Ashland MA	617-881-2000
K C Industries Inc Cambridge NE	308-697-4711
Larse Corp Santa Clara CA	408-988-6600
MG Electronics Hauppauge NY	516-582-3400
Mine Safety Appliances Co Pittsburgh PA	412-273-5175
Modular Command Systems Inc Fountain Valley CA	714-963-8844
Mountain West Alarm Supply Co Phoenix AZ	602-263-8831
Nutone Div Scovill Mfg Co Cincinnati OH	513-527-5100
Pyrotec Inc Hingham MA	617-749-3466
Reich Associates Inc Plano TX	214-424-7904
Santa Barbara Research Center Goleta CA	805-968-3511
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sparton of Canada Ltd London ON	519-455-6320
Square D Co Palatine IL	312-397-2600
Tele Measurements Inc Clifton NJ	201-473-8822

FIXTURES—HOLDING

See Assembly Fixtures

*See Also Specific Types of Hardware (Diode
Holders; Printed Circuit Board Frames; etc.)*

FIXTURES—PHOTOMASK

See Photomask Alignment Fixtures

FLANGES—WAVEGUIDE

See Waveguide Flanges

FLASHERS

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ADV PGS Green Pages/ Footstrips SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
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Amperite Co Inc Union City NJ	201-864-9503
Applied Electro Technology Int Santa Ana CA	714-556-6570
Autronics Corp Arcadia CA	818-445-5470
Benthos Inc North Falmouth MA	617-540-5500
Devco Engineering Inc Fairfield NJ	201-228-0321
Dynamic Controls Corp South Windsor CT	203-528-9971
ECP Corp Cleveland OH	216-391-0444
Enerco Seattle WA	206-762-1422
Grimes Div Midland Ross Corp Urbana OH	513-652-1431
GTE Lighting Products Danvers MA	617-777-1900
GTE Precision Materials Danvers MA	617-777-1900
Hughes & Phillips Inc Burbank CA	213-849-1104
Leecraft Mfg Co Inc Long Island City NY	718-392-8800
Logitek Inc Ronkonkoma NY	516-467-4200
Master Electronic Controls Los Angeles CA	213-452-1336
Parko Electronics Co Inc Irvine CA	714-660-8014
Projects Unlimited Inc Dayton OH	513-890-1918
Reich Associates Inc Plano TX	214-424-7904
Sager Hingham MA	617-749-6700
Scientific Technology Inc Mtn View CA	415-965-0910
Shokai Far East Ltd Hartsdale NY	914-681-0700
Soderberg Mfg Co Inc Walnut CA	714-595-1291
SOS Lighting Devices Div MEMCO Philadelphia PA	215-423-7077
SSAC Inc Liverpool NY	315-622-1000
Swiss Controls Inc Michigan City IN	219-872-5544
Timeco Inc Huntington WV	304-523-5149
Time-O-Matic Inc Danville IL	217-442-0611
Vanguard Relay Corp Warwick RI	401-732-0700
Wilmar Electronics Inc Torrance CA	213-326-6668

FLASH LAMPS

See Lamps—Flash & Strobe

FLATPACKS

See Packages

FLAW DETECTORS—ELECTRONIC

See Also Ultrasonic Equipment—Flaw Detectors

Data Measurement Corp Gaithersburg MD	301-948-2441
De-Tec-Tronic Corp Elgin IL	312-695-9111
Dunegan Corp Mission Viejo CA	714-831-9111
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Magnaflux Corp Chicago IL	312-867-8011
Mechanical Technology Inc Latham NY	518-785-2211
Photobell Co Inc Fairfield NJ	201-227-3611
Physical Acoustics Corp Princeton NJ	609-452-2511
Scientific Technology Inc Mtn View CA	415-965-0910
Simco/Ramic Corp Medford OR	503-776-9811

FLOW CONTROLS

See Controls—Fluid Flow; Solenoid Valves

FLOWMETERS & INDICATORS

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NEWPORT ELECTRONICS INC SANTA ANA CA	714-540-4911
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ADG PGS 194, Gatefold	
Air Products & Chemicals Inc Allentown PA	215-481-4911
AMF Cuno General Filter Prods Meriden CT	203-237-5511
Bailey Controls Co Wickliffe OH	216-585-8511
Bay Technical Associates Inc Bay St Louis MS	601-467-8211
Bristol Babcock Inc Waterbury CT	203-575-3011
Brooks Instrument Div Hatfield PA	215-362-3511
Cambridge Scientific Industries Cambridge MD	301-228-5111
Carolina Medical Electronics Inc King NC	919-983-5111
Controlotron Corp Hauppauge NY	516-231-3611
Dietz Co Inc Henry G Long Island City NY	718-726-3311
Drexelbrook Engineering Co Horsham PA	215-674-1211
Eldec Corp Lynnwood WA	206-743-1311
Electrac Inc Anaheim CA	714-879-6011
Endress & Hauser Inc Greenwood IN	317-535-7111
Enviromarine Systems Inc Laurel MD	301-598-8811
Fischer & Porter Co Warminster PA	215-674-6011
Flow Technology Inc Phoenix AZ	602-437-1311
The Foxboro Co Foxboro MA	617-543-8711
Fuji Electric Corp of America Los Angeles CA	213-622-4411
Gilmont Instruments Inc Great Neck NY	516-487-0111
Hoffer Flow Controls Port Monmouth NJ	201-787-1911
Honeywell Process Control Div Ft Washington PA	215-641-3011
Hy-Cal Engineering El Monte CA	818-444-4011

International Thermal Instrument Co	
Del Mar CA	619-755-4436
Navico Msmrt & Control Combustion Engrg Inc	
Tulsa OK	918-834-5671
TT Barton Instruments Co	
City of Industry CA	818-961-2547
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Kurz Instruments Inc Carmel Valley CA	408-659-3421
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Leupold & Stevens Inc Beaverton OR	503-646-9171
Martin-Decker Cedar Park TX	512-331-0411
Matheson Secaucus NJ	201-867-4000
MKS Instruments Inc Burlington MA	617-272-9255
Montedoro-Whitney Corp	
San Luis Obispo CA	805-543-1233
Moore Products Co Spring House PA	215-646-7400
NES Inc Carpentersville IL	312-426-5900
Newport Electronics Inc Santa Ana CA	714-540-4914
Norgren Co C A Littleton CO	303-794-2611
Omega Engineering Inc Stamford CT	203-359-1660
Panometrics Inc Process Inst Div	
Waltham MA	617-899-2719
Proteus Industries Inc Mt View CA	415-964-4163
Ramapo Instrument Div Hersey Prods Inc	
Spartanburg SC	803-578-1005
Red Lion Controls York PA	717-767-6511
Sierra Instruments Inc Carmel Valley CA	408-659-3177
Synthatron Corp Parsippany NJ	201-335-5000
Tele-dyne Hastings-Raydist Hampton VA	804-723-6531
Trans-Met Engineering Inc La Habra CA	213-691-2266
TSI Inc St Paul MN	612-483-0900
Vylan Corp Carson CA	213-518-3610
Valdine Engineering Corp Northridge CA	818-886-2057
Vernitron Corp Deer Park NY	516-586-5100
Vallace & Tiernan Div Pennwalt Corp	
Belleville NJ	201-759-8000
Vaugh Controls Corp Chatsworth CA	818-998-8281
Vest Coast Research Corp Los Angeles CA	213-478-8833

FLOW TRANSDUCERS

See Transducers

FLUIDIC DEVICES

See Also Switches—Pressure Actuated

Automatic Switch Co Florham Park NJ	201-966-2000
Bellofram Corp A Rexnord Co Burlington MA	617-272-2100
Boston Gear Quincy MA	617-328-3300
Corning Glass Works Elctn Materials Dept	
Corning NY	607-974-4102
Jetco Inc Henry G Long Island City NY	718-726-3347
Ear Siegler Inc Santa Monica CA	213-452-5444
Moore Products Co Spring House PA	215-646-7400
Norgren Co C A Littleton CO	303-794-2611
Robtch Inc Wilmington MA	617-657-6143
Simmonds Inc Southbridge MA	617-764-3235
ISI Technologies Inc Janesville WI	608-755-1900

FLUORESCENT COMPOUNDS

See Chemicals—CRT Screen

LITTER ANALYZERS

See Analyzers

LUXES & FLUX SOLVENTS

See Brazing Fluxes; Solder Fluxes

LUXMETERS

See Magnetic Analysis Equipment

MM EQUIPMENT

See Communications Equipment Reference List

FOAMS

See Ceramic Foams; Plastic Foams; Potting

Compounds; Rubber

FOIL

See Magnetic Foil; Metals

FORKS

See Tuning Forks

FORMS

See Forms; Resistor Forms; Transformer Bobbins

& Forms

FORSTERITE

See Ceramic Listings

For addresses, phones & sales offices, see green pages

FRAMES

See Core Plane Frames; Printed Circuit Board

Frames; Package Parts—Lead Frames; Wiring

Backplane Frames

FREQUENCY CALIBRATION SERVICES

See Calibration Services

FREQUENCY CHANGERS—POWER

See Power Converters; Power

Generators—Electronic; Power Inverters

FREQUENCY CHANGERS—SIGNAL

See Converters

FREQUENCY CONTROLS

See Monitors; Oscillators; Regulators

FREQUENCY DIVIDERS (EXCEPT MICROWAVE)

Electrac Inc Anaheim CA	714-879-6021
Electronic Counters & Controls Inc	
Mundelein IL	312-362-8910
Global Specialties Corp New Haven CT	203-624-3103
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Olektron Corp Webster MA	617-943-7440
Plessey Semiconductors Irvine CA	714-951-5212
Spectracom Corp East Rochester NY	716-381-4827
Teledyne Microelectronics Los Angeles CA	213-870-9831
Versitron Div Keene Corp Washington DC	202-722-8600
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

FREQUENCY DOUBLERS & MULTIPLIERS (EXCEPT MICROWAVE)

MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Ajax Magnethermic Corp Warren OH	216-372-8511
Applied Research Inc Plainview NY	516-349-9200
Centroid Inc Syosset NY	516-822-4770
Coherent Inc Palo Alto CA	415-493-2111
Comstron Corp Freeport NY	516-546-9700
Electrac Inc Anaheim CA	714-879-6021
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Lorch Electronics Corp Englewood NJ	201-569-8282
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Mini-Circuits Lab Brooklyn NY	718-934-4500
MITEQ Inc Hauppauge NY	516-543-8873
Olektron Corp Webster MA	617-943-7440
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Teledyne Microelectronics Los Angeles CA	213-870-9831
Triplet Corp/A Penril Div Bluffton OH	419-358-5015
TRW Microwave Sunnyvale CA	408-732-0880
U S Laser Corp Wyckoff NJ	201-848-9200
Vari-L Co Inc Denver CO	303-371-1560
Varo Inc Power Systems Div Garland TX	214-840-5000
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

FREQUENCY MARKERS

See Generators—Signal

FREQUENCY-SHIFT COMMUNICATIONS EQUIPMENT

See Communications Equipment Reference List

FREQUENCY TEST EQUIPMENT

See Analyzers; Calibrators; Comparators;

Counters; Meters; Standards

See Also Instruments & Accessories Reference

List

FUEL CELLS

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Electrochimica Corp Menlo Park CA	415-327-8600
Engelhard Industries Iselin NJ	201-321-5900
Goodyear Aerospace Corp Akron OH	216-796-2121
Norton Co Worcester MA	617-853-1000

FUEL GAGES

See Gages

FUNCTION GENERATORS

See Generators—Function

FUNGICIDAL COATINGS

See Coatings

FUNGIPROOFING SERVICES

See Production Services

FURNACE CONTROLS

See Controls—Combustion & Smoke; Thermostats

FURNACE HEATING ELEMENTS

See Heating Elements

FURNACES—CONTROLLED ATMOSPHERE

AGF Inc Elizabeth NJ	201-352-2120
Astro Industries Inc Santa Barbara CA	805-963-3461
BTU Engineering Corp. North Billerica MA	617-667-4111
Budd Cato Assoc Inc Brielle NJ	201-528-7439
C M Inc Bloomfield NJ	201-338-6500
GaSonics Div Atomel Corp Sunnyvale CA	408-745-1340
Grieve Corp Round Lake IL	312-546-8225
Harper Electric Furnace Corp Lancaster NY	716-684-7400
Huppert Co K H South Holland IL	312-339-2020
Keith Co Inc Pico Rivera CA	213-685-3484
L & L Special Furnace Co Aston PA	215-459-9216
Spectra-Mat Inc Watsonville CA	408-722-4116
Trent Inc Philadelphia PA	215-482-5000
Vacuum Atmospheres Co Inc Hawthorne CA	213-644-0251
Vacuum Industries Inc Somerville MA	617-666-5450
Watkins-Johnson Co Palo Alto CA	415-493-4141

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AGF Inc Elizabeth NJ	201-352-2120
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Blue M Unit of General Signal Blue Island IL	312-385-9000
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C M Inc Bloomfield NJ	201-338-6500
Despatch Industries Inc Minneapolis MN	612-331-1873
Electrical Refractories Co East Palestine OH	216-426-9433
FECO Engineered Systems Inc Cleveland OH	216-441-2400
Grieve Corp Round Lake IL	312-546-8225
Harper Electric Furnace Corp Lancaster NY	716-684-7400
Huppert Co K H South Holland IL	312-339-2020
Keith Co Inc Pico Rivera CA	213-685-3484
Lab-Line Instruments Inc Melrose Park IL	312-450-2600
Lanly Co Cleveland OH	216-731-1115
L & L Special Furnace Co Aston PA	215-459-9216
OAL Associates Inc Escondido CA	619-743-7143
Phoenix Materials Corp Kittanning PA	412-548-1531
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BTU Engineering Corp. North Billerica MA	617-667-4111
Budd Cato Assoc Inc Brielle NJ	201-528-7439
Cooke Vacuum Products Inc	
South Norwalk CT	203-853-9500
Epoxylite Corp Anaheim CA	714-630-7910
Ferrolfluidics Corp Nashua NH	603-883-9800
General Engineering USA Ltd	
South Windsor CT	203-528-4474
High Vacuum Equipment Corp Hingham MA	617-749-9000
IVI Corp Pembroke MA	617-826-3195
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San Jose CA	408-294-7759
L & L Special Furnace Co Aston PA	215-459-9216
Research Instrument Co Inc	
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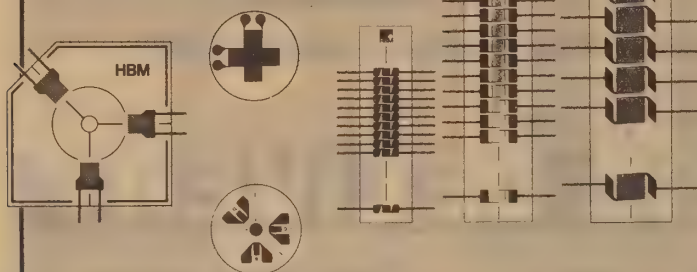
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Photofabrication Technology Inc Derry NH	603-432-1200
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Transducers & Systems Inc	
North Branford CT.....	203-481-5721
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West Coast Research Corp Los Angeles CA	213-478-8833

GAGES—THICKNESS

See Gages—Beta; Gages—Coating Thickness;

Gages—Microwave; Ultrasonic Equipment

GAGES—TRANSDUCERS

See Transducers

GAGES—ULTRASONIC

See Ultrasonic Equipment

GAGES—VACUUM (GAGES ONLY, INCL. PIRANI)

See Also Indicators—Vacuum

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Cooke Vacuum Products Inc	
South Norwalk CT.....	203-853-9500
Cryolab Inc San Luis Obispo CA.....	805-541-2796
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Edwards High Vacuum (Canada) Ltd	
Oakville ON.....	416-845-3437
The Foxboro Co Foxboro MA.....	617-543-8750
Fredericks Co Huntingdon Valley PA	215-947-2500
GCA/Instruments & Equip Group Chicago IL	312-227-2660
Gilmont Instruments Inc Great Neck NY	516-487-0120
Granville-Phillips Co Boulder CO	303-443-7660
Ilicon Leybold-Heraeus Inc	
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Leybold-Heraeus Technologies Inc	
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Sensor Corp San Marcos TX.....	512-396-4200
MKS Instruments Inc Burlington MA	617-272-9255
Princo Instruments Inc Southampton PA	215-355-1500
Richland Glass Co Richland NJ.....	609-691-1697
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Sargent-Welch Scientific Co Skokie IL	312-677-0600
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See Semiconductors

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Caltemp Instrument Inc Escondido CA	714-743-2800
EIL Instruments Inc Sparks MD.....	301-771-4800
Enercorp Instruments Ltd Islington ON	416-231-5335
General Scanning Inc Watertown MA	617-924-1010
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Greibach Instruments Mt Vernon NY	914-699-9717
Gulton Graphic Insts Div East Greenwich RI	401-884-6800
International Instruments Div Gen Resistance Inc	
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Leeds & Northrup Instruments	
North Wales PA.....	215-643-2000
Marel Instrument Co Cape Coral FL	813-574-8788
MFE Instruments Corp Salem NH	603-893-1921
Phaestron Instrument & Elect Co Azusa CA	818-969-6801
Sargent-Welch Scientific Co Skokie IL	312-677-0600
Simpson Electric Co Elgin IL.....	312-697-2260
Tokogawa Corp Of America Shenandoah GA	404-253-7000

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See Radiographic Equipment

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Cerac Inc Milwaukee WI.....	414-289-9800
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Deltronic Crystal Industries Dover NJ	201-361-2222
Quartzite Processing Inc Malden MA	617-322-1380
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Bacharach Inc Pittsburgh PA.....	412-963-2000
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Devco Engineering Inc Fairfield NJ.....	201-228-0321
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Wilmington DE.....	302-772-5488
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Waltham MA.....	617-890-3710
Eitel Mfg Inc Laguna Beach CA.....	714-494-2012
Engelhard Industries Iselin NJ.....	201-321-5900
Fischer & Porter Co Warminster PA.....	215-674-6000
The Foxboro Co Foxboro MA.....	617-543-8750
Gow-Mac Instrument Co Bound Brook NJ	201-560-0600
Hiac/Royco Instruments Div Menlo Park CA	415-325-7811
Ilicon Leybold-Heraeus Inc	
East Syracuse NY.....	315-437-0377
Infrared Industries Inc-Instruments Div	
Santa Barbara CA.....	805-684-4181
Integrated Photomatrix Inc Mountainside NJ	201-233-6010
ITT Barton Instruments Co	
City of Industry CA.....	818-961-2547
Lear Siegler Inc Santa Monica CA.....	213-452-5444
Leeds & Northrup Instruments	
North Wales PA.....	215-643-2000
M-C Products Scottsdale AZ.....	602-998-9577
Mine Safety Appliances Co Pittsburgh PA	412-273-5175
New York Testing Labs Inc Westbury NY	516-334-7770
Plastics Consulting & Mfg Co Camden NJ	609-963-7700
Process & Instruments Corp Brooklyn NY	718-452-8380
Sargent-Welch Scientific Co Skokie IL	312-677-0600
UTI Instruments Co Milpitas CA.....	408-945-1955
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BRIDGEWATER NJ.....	201-526-8440
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Andonian Cryogenics Inc Newtonville MA	617-969-8010
Aristo-Craft New York NY.....	212-924-4041
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Figaro Engineering Inc Osaka Japan.....	0727 28 2560
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Asheville-Schoonmaker Mica Co	
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Warwick NY.....	914-986-2271
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Parker Hannifin Corp Seal Group	
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Parker Seal Group Lexington KY.....	606-269-2351
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Republic Packaging Corp Chicago IL.....	312-233-6530
Seastrom Mfg Co Inc Glendale CA.....	213-245-9121
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Staff Gasket Mfg Corp New York NY.....	212-675-4097
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Vernay Lab Inc Yellow Springs OH.....	513-767-7261

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See Magnetic Analysis Equipment; Magnetometers

GEARED CAMS

See Cams

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ADV PG Back Cover	
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Boston Gear Quincy MA.....	617-328-3300
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Ft Wayne IN.....	219-747-3121
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Electrodynamics Inc A Talley Indus Co	
Rolling Meadows IL.....	312-259-0740
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Gibson-Egan Co Duarte CA.....	818-358-0191
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Stock Drive Products Inc Div Designatronics	
New Hyde Park NY.....	516-328-0200
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City Of Industry CA.....	818-968-6525

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Stock Drive Products Inc Div Designatronics	
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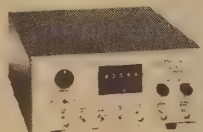
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GENERATORS—BAR

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Tektronix Inc Beaverton OR.....	800-547-6711

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CELCO (Constantine Engineering Labs Co) Mahwah NJ.....	201-327-1123
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SI/Fork Standards Inc Lombard IL	312-932-9380
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Global Specialties Corp New Haven CT	203-624-3103
Halcyon Communications Inc San Jose CA	408-293-9970
Image Inc Port Washington NY	516-883-3837
Leath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
International Data Sciences Inc Lincoln RI	401-333-6200
ikusui International Corp Gardena CA	213-515-6432
rohn-Hite Corp Avon MA	617-580-1660
Leader Instruments Corp Hauppauge NY	516-231-6900
Marconi Instruments Div Marconi Elctns Inc Allendale NJ	201-934-9050
Marad Electronics Inc Lake Success NY	516-328-1100
Rad-Dana Instruments Inc Irvine CA	714-859-8999
RE Instruments Corp Westlake OH	216-871-7617
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
olar Electronics Co Hollywood CA	213-462-0806
ound Technology Campbell CA	408-378-6540
ystems Technology Assoc Washington DC	703-471-8000
ektronix Inc Beaverton OR	800-547-6711
M Systems Inc Bridgeport CT	203-366-4571
ucker Electronics Co Garland TX	214-348-8800
inholz-Dickie Corp Wallingford CT	203-265-3929
enator Systems Inc San Jose CA	408-262-7788
iz Test Equip Div Viz Mfg Co Philadelphia PA	215-844-2626
andel & Golttermann Inc Research Triangle Pk NC	919-544-8450
avetek San Diego Inc San Diego CA	619-279-2200

GENERATORS, SIGNAL—AIR TRAFFIC CONTROL (INCL. GLIDE SLOPE, LOCALIZER & OMNI-RANGE)

Ir-A-Plane Corp Norfolk VA	804-622-5761
F Electronics Solana Beach CA	619-755-1881
omstron Corp Freeport NY	516-546-9700
aton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
azeltine Corp Commack NY	516-462-5100
ogimetrix Inc Plainview NY	516-349-1700
ucker Electronics Co Garland TX	214-348-8800

BOONTON

- RF Milli-voltmeters
- Microwave Powermeters
- FM/AM Signal Generators
- FM/AM Modulation Meters
- Capacitance Bridges and Meters
- Inductance Meters
- Audio Test Instruments

BOONTON ELECTRONICS CORPORATION

791 Route 10
Randolph, NJ 07869
Tel. 201-584-1077

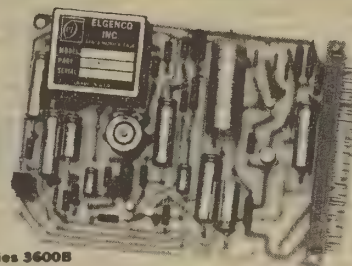
GENERATORS, SIGNAL—A-M, FM & A-M/FM

BOONTON ELECTRONICS CORP
RANDOLPH NJ 201-584-1077
ADV PG 201

CLARKE-HESS COMMUNICATIONS RESEARCH NEW YORK NY	212-255-2940
Anritsu America Inc Oakland NJ	201-337-1111
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Boonton Electronics Corp Randolph NJ	201-584-1077
Clarke-Hess Communications Research New York NY	212-255-2940
Clemens Mfg Co St Louis MO	314-961-7228
Comstron Corp Freeport NY	516-546-9700
Continental Resources Inc Bedford MA	617-275-0850
Cushman Electronics Inc San Jose CA	408-263-8100
Delta Electronics Inc Alexandria VA	703-354-3350
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Exact Electronics Div Dynatech Nevada Inc Carson City NV	800-648-7952
Hewlett-Packard Palo Alto CA	415-857-8000
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
Krohn-Hite Corp Avon MA	617-580-1660
Leader Instruments Corp Hauppauge NY	516-231-6900
Locus Inc State College PA	814-466-6275
LogiMetrics Inc Plainview NY	516-349-1700
Marconi Instruments Div Marconi Elctns Inc Allendale NJ	201-934-9050
Oklahoma Aerotronics Inc Hartshorne OK	918-297-2566
Polarad Electronics Inc Lake Success NY	516-328-1100
Racal-Dana Instruments Inc Irvine CA	714-859-8999
RE Instruments Corp Westlake OH	216-871-7617
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Sencore Inc Sioux Falls SD	605-339-0100
Sigmotek International Corp Walnut Creek CA	415-943-7411
Tucker Electronics Co Garland TX	214-348-8800
Wavetek Indiana Inc Beech Grove IN	317-787-3332
Wavetek San Diego Inc San Diego CA	619-279-2200

Use the green pages
for local information.

ELGENCO Noise Generators

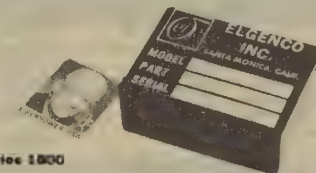


Series 3600B

NOISE GENERATOR CARDS

Series 3600 \$549 to \$1,003

Various frequency ranges and output flatness available. Write for details.



Series 1800

ENCAPSULATED NOISE SOURCE MODULES

Series 1600 \$480 to \$924

Series 1800 \$488 to \$1,623

Various frequency ranges and output flatness available. Write for details.



Model 610A

SOLID STATE NOISE GENERATORS

Model 602A 5 Hz to 5 mHz, 3 Ranges \$1,915

Model 603A 5 Hz to 5 mHz, 3 Ranges \$2,545

Model 610A 5 Hz to 5 mHz, 8 Ranges \$5,155

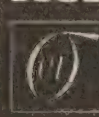
Model 632A Two outputs DC to

400 Hz and 10 Hz to 35 kHz \$10,175

Series 624 (Fixed frequency) 5 Hz to 500 kHz \$1,835 to \$2,225. Write for details on frequency ranges and spectral flatness.

For a more complete listing of Elgenco noise generators, see catalog in EEM or write.

ELGENCO INCORPORATED



P.O. Box 460
Hurricane, Utah 84737
Phone (801) 635-4954
Cable: Elgenco

DEMONSTRATOR MODELS AVAILABLE

See Elgenco listing in Green Pages of this Guide.
Write for Name of Nearest Rep.

GENERATORS, SIGNAL—DIGITAL FREQUENCY SYNTHESIZERS

ANDERSEN LABORATORIES INC BLOOMFIELD CT 203-242-0761 PROGRAMMED TEST SOURCES INC LITTLETON MA 617-486-3008 ADV PG 203

Andersen Laboratories Inc Bloomfield CT	203-242-0761
Anritsu America Inc Oakland NJ	201-337-1111
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Applied Research Inc Plainville NY	516-349-9200
Comstron Corp Freeport NY	516-546-9700
Continental Resources Inc Bedford MA	617-275-0850
Cushman Electronics Inc San Jose CA	408-263-8100
Cybernetic Micro Systems Inc	
San Gregorio CA	415-726-3000
Delta Electronics Inc Alexandria VA	703-354-3350
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Handy Products/RSP Elec Branford CT	203-488-6603
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Hewlett-Packard Palo Alto CA	415-857-8000
Hughes Aircraft Co Microwave Prods Div	
Torrance CA	213-517-6400
Krohn-Hite Corp Avon MA	617-580-1660
Leader Instruments Corp Hauppauge NY	516-231-6900
Leasametric Inc Foster City CA	415-574-4441
Locus Inc State College PA	814-466-6275
LogiMetrics Inc Plainview NY	516-349-1700
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
Oklahoma Aerotronics Inc Hartshorne OK	918-297-2566
Polarad Electronics Inc Lake Success NY	516-328-1100
Programmed Test Sources Inc Littleton MA	617-486-3008
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Real Time Systems Inc Mt Vernon NY	914-667-0425
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Sigmatot International Corp.	
Walnut Creek CA	415-943-7411
Systems Research Labs Inc Dayton OH	513-426-6000
Versitron Div Keene Corp Washington DC	202-722-8600
Wandel & Goltermann Inc	
Research Triangle Pk NC	919-544-8450
Watkins-Johnson Co Palo Alto CA	415-493-4141
Wavetek Indiana Inc Beech Grove IN	317-787-3332
Wavetek San Diego Inc San Diego CA	619-279-2200
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

GENERATORS, SIGNAL—MARKER

Avtech Electrosystems Ltd Ottawa ON	613-226-5772
Compliance Design Inc Boxborough MA	617-264-4668
FSI/ Fork Standards Inc Lombard IL	312-932-9380
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hameg Inc Port Washington NY	516-883-3837
Heath Co Benton Harbor MI	616-982-3200
Krohn-Hite Corp Avon MA	617-580-1660
LogiMetrics Inc Plainview NY	516-349-1700
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Scientific Communications Inc Garland TX	214-840-4900
Tektronix Inc Beaverton OR	800-547-6711
Wavetek Indiana Inc Beech Grove IN	317-787-3332

GENERATORS, SIGNAL—MICROWAVE (EXCEPT SWEEP)

SANDERS ASSOCIATES INC NASHUA NH 603-885-4321	
Alpha Industries Inc Woburn MA	617-935-5150
Anritsu America Inc Oakland NJ	201-337-1111
California Microwave Inc Sunnyvale CA	408-732-4000
Cober Electronics Inc Stamford CT	203-327-0003
Comstron Corp Freeport NY	516-546-9700
Continental Resources Inc Bedford MA	617-275-0850
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Epsco Inc Westwood MA	617-329-1500
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hewlett-Packard Palo Alto CA	415-857-8000
International Microwave Corp Stamford CT	203-323-5599
LogiMetrics Inc Plainview NY	516-349-1700
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
MCL Inc La Grange IL	312-354-4350
Micro-Now Instrument Co Inc Skokie IL	312-677-4700
Polarad Electronics Inc Lake Success NY	516-328-1100
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Republic Electronics Inc Melville NY	516-249-1414
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Sanders Associates Inc Nashua NH	603-885-4321
Tektronix Inc Beaverton OR	800-547-6711
Tucker Electronics Co Garland TX	214-348-8800
Watkins-Johnson Co Palo Alto CA	415-493-4141
Wavetek Indiana Inc Beech Grove IN	317-787-3332
Wavetek San Diego Inc San Diego CA	619-279-2200
Weinschel Engineering Co Inc	
Gaithersburg MD	301-948-3434

GENERATORS, SIGNAL—MICROWAVE SWEEP

SANDERS ASSOCIATES INC NASHUA NH 603-885-4321	
Anritsu America Inc Oakland NJ	201-337-1111
Comstron Corp Freeport NY	516-546-9700
Continental Resources Inc Bedford MA	617-275-0850
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
EIP Microwave Inc San Jose CA	408-946-5700
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hewlett-Packard Palo Alto CA	415-857-8000
Integra Microwave Santa Clara CA	408-727-9601
LNR Communications Inc Hauppauge NY	516-273-7111
M/A-COM OSW Inc Tempe AZ	602-966-1471
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
Micro-Now Instrument Co Inc Skokie IL	312-677-4700
Polarad Electronics Inc Lake Success NY	516-328-1100
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Sanders Associates Inc Nashua NH	603-885-4321
Texscan Corp Phoenix AZ	602-252-5021
Tucker Electronics Co Garland TX	214-348-8800
Wavetek Indiana Inc Beech Grove IN	317-787-3332
Wavetek San Diego Inc San Diego CA	619-279-2200
Weinschel Engineering Co Inc	
Gaithersburg MD	301-948-3434
Wiltron Co Morgan Hill CA	408-778-2000

GENERATORS, SIGNAL—MODULAR MULTIPURPOSE (PLUG-IN ADAPTERS)

Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Comstron Corp Freeport NY	516-546-9700
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Electronics Surveillance Components Inc	
Palo Alto CA	415-494-7803
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hameg Inc Port Washington NY	516-883-3837
Hewlett-Packard Palo Alto CA	415-857-8000
Kinetic Systems Corp Lockport IL	515-838-0005
Locus Inc State College PA	814-466-6275
LogiMetrics Inc Plainview NY	516-349-1700
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
MCL Inc La Grange IL	312-354-4350
Tau-Tron Inc Westford MA	617-692-5100
Tektronix Inc Beaverton OR	800-547-6711

GENERATORS, SIGNAL—OSCILLATORS

See Oscillators

GENERATORS, SIGNAL—PULSE (IMPULSE)

BERKELEY NUCLEONICS CORP	
BERKELEY CA	415-527-1121
HIPOTRONICS INC BREWSTER NY	914-279-8091
KAY ELEMETRICS CORP PINE BROOK NJ	201-227-2000
American HV Test Systems Inc Accident MD	301-826-8651
Anasco Corp Wakefield MA	617-246-3300
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Avtech Electrosystems Ltd Ottawa ON	613-226-5772
Berkeley Nucleonics Corp Berkeley CA	415-527-1121
Betatronix Inc Lincolnwood IL	312-676-1747
Cardion Electronics Div Gen Signal Corp	
Woodbury NY	516-921-7300
Cincinnati Electrosystems Inc Loveland OH	513-831-4347
Cober Electronics Inc Stamford CT	203-327-0003
Computer Measurements Co Chatsworth CA	818-341-0800
Digital Blending Systems Inc	
East Providence RI	401-434-3440
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
E-H Electronics Inc Fremont CA	415-651-2340
Electronics Warehouse Inc Old Lyme CT	203-434-9838
Epsco Inc Westwood MA	617-329-1500
Exact Electronics Div Dynatech Nevada Inc	
Carson City NV	800-648-7952
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Global Specialties Corp New Haven CT	203-624-3103
Handy Products/RSP Elec Branford CT	203-488-6603
Hewlett-Packard Palo Alto CA	415-857-8000
Hipotronics Inc Brewster NY	914-279-8091
Instrument Research Co Santa Barbara CA	805-962-8336
Ion Physics Co Div High Voltage Engrg	
Burlington MA	617-272-2800
Kay Elemetrics Corp Pine Brook NJ	201-227-2000
Keytek Instrument Corp Burlington MA	617-272-5170
Kinetic Systems Corp Lockport IL	515-838-0005
Laboratory Products Inc Hyde Park MA	617-364-6260
Leasametric Inc Foster City CA	415-574-4441
LeCroy Corp Spring Valley NY	914-425-2000
Locus Inc State College PA	814-466-6275
LogiMetrics Inc Plainview NY	516-349-1700
Maxwell Labs Inc San Diego CA	619-279-5100
MCL Inc La Grange IL	312-354-4350
Medical & Scientific Instruments Inc	
Bethlehem PA	215-865-3432
North American Soar Corp Cherry Hill NJ	609-488-1060
Nuclear Enterprises Ltd Beenharn Reading	0734-712121
O K Industries Bronx NY	212-994-6600

Philips Test & Measuring Instruments Inc	
Mahwah NJ	201-529-3800
Picosecond Pulse Labs Inc Boulder CO	303-443-1249
Polarad Electronics Inc Lake Success NY	516-328-1100
PolyPhaser Corp Gardenville NY	702-782-2511
Power Science Inc San Diego CA	619-292-4322
Power Technology Inc Little Rock AR	501-568-1995
Pulsar Products Inc Union City CA	415-487-5400
Pulse Instruments Co Torrance CA	213-515-5330
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Republic Electronics Inc Melville NY	516-249-1414
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Schaffner EMC Inc Instrument Div Union NJ	201-851-0644
Sigmatot International Corp.	
Walnut Creek CA	415-943-7411
Solar Electronics Co Hollywood CA	213-462-0800
Surge Electronics Inc Chicago IL	312-761-0400
Tektronix Inc Beaverton OR	800-547-6711
Tucker Electronics Co Garland TX	214-348-8800
Veeder-Root Hartford CT	203-527-7201
Vega Precision Labs Vienna VA	703-938-6390
Velonex Santa Clara CA	408-727-7370
Wavetek San Diego Inc San Diego CA	619-279-2200

GENERATORS, SIGNAL—RF (EXCEPT SWEEP & MICROWAVE)

Anasco Corp Wakefield MA	617-246-3300
Anritsu America Inc Oakland NJ	201-337-1111
Ballantine Laboratories Inc Bonton NJ	201-335-0900
B & K Precision Products Dynascan Corp	
Chicago IL	312-889-9087
Clemens Mfg Co St Louis MO	314-961-7228
Comstron Corp Freeport NY	516-546-9700
Continental Resources Inc Bedford MA	617-275-0850
Delta Electronics Inc Alexandria VA	703-354-3350
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Electrac Inc Anaheim CA	714-879-6021
Epsco Inc Westwood MA	617-329-1500
Hameg Inc Port Washington NY	516-883-3837
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Krohn-Hite Corp Avon MA	617-580-1660
Laboratory Products Inc Hyde Park MA	617-364-6260
Leader Instruments Corp Hauppauge NY	516-231-6900
Locus Inc State College PA	814-466-6275
LogiMetrics Inc Plainview NY	516-349-1700
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
MCL Inc La Grange IL	312-354-4350
Racal-Dana Instruments Inc Irvine CA	714-859-8999
RE Instruments Corp Westlake OH	216-871-7617
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Sound Technology Campbell CA	408-378-6540
Tektronix Inc Beaverton OR	800-547-6711
Tucker Electronics Co Garland TX	214-348-8800
Viz Test Equip Div Viz Mfg Co	
Philadelphia PA	215-844-2621
Wandel & Goltermann Inc	
Research Triangle Pk NC	919-544-8450
Watkins-Johnson Co Palo Alto CA	415-493-4141
Wavetek Indiana Inc Beech Grove IN	317-787-3332
Wavetek San Diego Inc San Diego CA	619-279-2200

GENERATORS, SIGNAL—RF, SWEEP (EXCEPT MICROWAVE)

Anasco Corp Wakefield MA	617-246-3300
Anritsu America Inc Oakland NJ	201-337-1111
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Comstron Corp Freeport NY	516-546-9700
Cushman Electronics Inc San Jose CA	408-263-8100
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Global Specialties Corp New Haven CT	203-624-3103
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Krohn-Hite Corp Avon MA	617-580-1660
Leader Instruments Corp Hauppauge NY	516-231-6900
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Sound Technology Campbell CA	408-378-6540
Tektronix Inc Beaverton OR	800-547-6711
Telonic/Berkeley Laguna Beach CA	714-494-9400
Texscan Corp Phoenix AZ	602-252-5021
Tucker Electronics Co Garland TX	214-348-8800
Viz Test Equip Div Viz Mfg Co	
Philadelphia PA	215-844-2621
Wandel & Goltermann Inc	
Research Triangle Pk NC	919-544-8450
Wavetek Indiana Inc Beech Grove IN	317-787-3332
Wavetek San Diego Inc San Diego CA	619-279-2200
Weinschel Engineering Co Inc	
Gaithersburg MD	301-948-3434
Wiltron Co Morgan Hill CA	408-778-2000

GENERATORS, SIGNAL—SINGLE SIDE BAND

Kahn Communications Inc Westbury NY	516-222-2222
Locus Inc State College PA	814-466-6275

PTS
FREQUENCY SYNTHESIZERS

HIGH-PERFORMANCE DIRECT SYNTHESIZERS

Accurate, stable, quiet frequencies on command, fast. For NMR, imaging, SATCOM, surveillance, ATE. Sources adapting to your needs with options. High demonstrated reliability. Thousands in use.

PTS 040

Range: 0.1-40MHz
Resolution: 0.1Hz-100KHz (opt.)
Switching: 5-20 μ s
Output: +3 to +13dBm: 50 ohm
Spurious Outputs: -75dB

Phase Noise: -75dBc, (0-15KHz)
Freq. St'd: Oven, TCXO, Ext.
Interface: BCD par. or GPIB
Size: 19"W, 5 1/4"H, 18"D
Price: \$4,400.00*

Other Options:
Progr. Attenuator, 0-90dB
(or 0-99dB with GPIB)
nx10MHz output 20-140MHz
or any 10MHz line (20-140)

PTS 120

Range: 90-120MHz
Resolution: 0.1Hz-100KHz (opt.)
Switching: 5-20 μ s
Output: +3 to +10dBm: 50 ohm
Spurious Outputs: -75dB

Phase Noise: -75dBc, (0.5Hz-15KHz)
Freq. St'd: Oven, TCXO, Ext.
Interface: BCD par. or GPIB
Size: 19"W, 5 1/4"H, 18"D
Price: \$4,400.00*

Other Options:
Progr. Attenuator, 0-90dB
(or 0-99dB with GPIB)
nx10MHz output 20-140MHz
or any 10 MHz line (20-140)

PTS 160

Range: 0.1-160MHz
Resolution: 0.1Hz-100KHz (opt.)
Switching: 5-20 μ s
Output: +3 to +13dBm: 50 ohm
Spurious Outputs: -75dB

Phase Noise: -63dBc, (0-15KHz)
Freq. St'd: Oven, TCXO, Ext.
Interface: BCD par. or GPIB
Size: 19"W, 5 1/4"H, 18"D
Price: \$5,600.00*

Other Options:
Progr. Attenuator, 0-90dB
(or 0-99dB with GPIB)
nx10MHz output 20-140MHz
or any 10 MHz line (20-140)

PTS 250

Range: 1-250MHz
Resolution: 0.1Hz-100KHz (opt.)
Switching: 5-20 μ s
Output: +3 to +13dBm: 50 ohm
Spurious Outputs: -70dB

Phase Noise: -63dBc, (0-15KHz)
Freq. St'd: Oven, TCXO, Ext.
Interface: BCD par. or GPIB
Size: 19"W, 5 1/4"H, 18"D
Price: \$6,400.00*

Other Options:
Progr. Attenuator, 0-90dB
(or 0-99dB with GPIB)
nx10MHz output 20-140MHz
or any 10 MHz line (20-140)

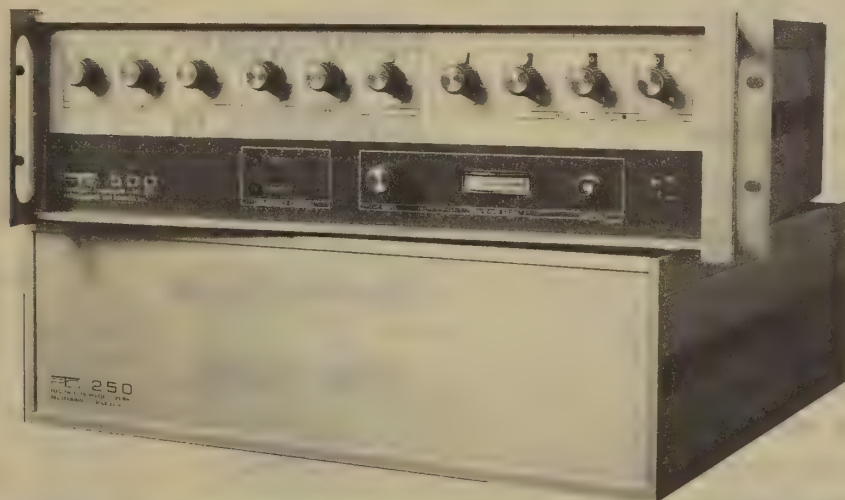
PTS 500

Range: 1-500MHz
Resolution: 0.1Hz-100KHz (opt.)
Switching: 5-20 μ s
Output: +3 to +13dBm: 50 ohm
Spurious Outputs: -70dB

Phase Noise: -63dBc, (0-15KHz)
Freq. St'd: Oven, TCXO, Ext.
Interface: BCD par. or GPIB
Size: 19"W, 5 1/4"H, 18"D
Price: \$7,500.00*

Other Options:
Progr. Attenuator, 0-90dB
(or 0-99dB with GPIB)
nx10MHz output 20-140MHz
or any 10 MHz line (20-140)

*Prices are US only, manual & remote, (BCD), 1 Hz res. with oven std.



NEW: Choice of table-look-up resolution with steady-phase switching.

PROGRAMMED TEST SOURCES, INC.

P.O. Box 617, 9 Beaver Brook Rd., Littleton, MA 01460 617-486-3008

GENERATORS, SIGNAL—SQUARE WAVE

(EXCEPT FUNCTION GENERATORS)

Anasco Corp Wakefield MA	617-246-3300
Betatronics Inc Lincolnwood IL	312-676-1747
Cybernetic Micro Systems Inc San Gregorio CA	415-726-3000
ECO Instruments Div Sea Data Corp Newton MA	617-964-8360
E-H Electronics Inc Fremont CA	415-651-2340
FSI/Fork Standards Inc Lombard IL	312-932-9380
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Handy Products/RSP Elec Branford CT	203-488-6603
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Instrument Research Co Santa Barbara CA	805-962-8336
Krohn-Hite Corp Avon MA	617-580-1660
Leader Instruments Corp Hauppauge NY	516-231-6900
Leasametric Inc Foster City CA	415-574-4441
New Wave Instruments San Jose CA	408-629-3105
Philips Test & Measuring Instruments Inc Mahwah NJ	201-529-3800
Polarad Electronics Inc Lake Success NY	516-328-1100
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Tektronix Inc Beaverton OR	800-547-6711
Veeder-Root Hartford CT	203-527-7201
Viz Test Equip Div Viz Mfg Co Philadelphia PA	215-844-2626
Wavetek San Diego Inc San Diego CA	619-279-2200
Weinschel Engineering Co Inc Gaithersburg MD	301-948-3434

GENERATORS, SIGNAL—SWEEP

CALIBRATOR

KAY ELEMETRICS CORP PINE BROOK NJ	201-227-2000
Consultronics Ltd Concord ON	416-738-3741
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Hameg Inc Port Washington NY	516-883-3837
Hewlett-Packard Palo Alto CA	415-857-8000
Hughes Aircraft Co Microwave Prods Div Torrance CA	213-517-6400
Kay Elemetrics Corp Pine Brook NJ	201-227-2000
Tescan Corp Phoenix AZ	602-252-5021
Willron Co Morgan Hill CA	408-778-2000

GENERATORS, SIGNAL—TV, COLOR

BAR & DOT

Anritsu America Inc Oakland NJ	201-337-1111
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Aydin Controls Ft Washington PA	215-542-7800
B & K Precision Products Dynascan Corp Chicago IL	312-889-9087
Cohulinc/Electronics Div San Diego CA	619-277-6700
Colorado Video Inc Boulder CO	303-444-3972
Heath Co Benton Harbor MI	616-982-3200
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
Leader Instruments Corp Hauppauge NY	516-231-6900
Philips Test & Measuring Instruments Inc Mahwah NJ	201-529-3800
Quantum Data Inc Carol Stream IL	312-668-3301
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Sencore Inc Sioux Falls SD	605-339-0100
Simpson Electric Co Egin IL	312-697-2260
Tektronix Inc Beaverton OR	800-547-6711
TeleMeasurements Inc Clifton NJ	201-473-8822
Viz Test Equip Div Viz Mfg Co Philadelphia PA	215-844-2626

GENERATORS, SIGNAL—TV,

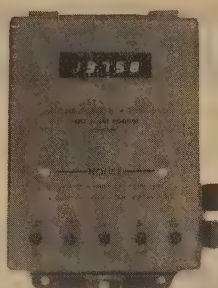
SYNCHRONIZING

Anritsu America Inc Oakland NJ	201-337-1111
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
B & K Precision Products Dynascan Corp Chicago IL	312-889-9087
Cohulinc/Electronics Div San Diego CA	619-277-6700
Colorado Video Inc Boulder CO	303-444-3972
Continental Resources Inc Bedford MA	617-275-0850
Leader Instruments Corp Hauppauge NY	516-231-6900
Philips Test & Measuring Instruments Inc Mahwah NJ	201-529-3800
Quantum Data Inc Carol Stream IL	312-668-3301
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Tektronix Inc Beaverton OR	800-547-6711

GENERATORS, SIGNAL—TV, VERTICAL

INTERVAL TEST

Anritsu America Inc Oakland NJ	201-337-1111
Continental Resources Inc Bedford MA	617-275-0850
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Marconi Instruments Div Marconi Elctns Inc Allendale NJ	201-934-9050
Philips Test & Measuring Instruments Inc Mahwah NJ	201-529-3800
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
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Viz Test Equip Div Viz Mfg Co
Philadelphia PA 215-844-2626

GENERATORS—THERMIONIC

See Power Generators—Thermoelectric &
Thermionic

GENERATORS—THERMOELECTRIC

See Power Generators—Thermoelectric &
Thermionic; Thermoelectric
Generators—Measuring

GENERATORS—TIME CODE

See Time Code Generators

GENERATORS—ULTRASONIC

See Ultrasonic Generators

GENERATORS—WORD

See Word Generators

GEOPHYSICAL EQUIPMENT (EXCEPT

MAGNETOMETERS & SEISMOGRAPHS)

ENVIROMARINE SYSTEMS INC LAUREL MD	301-598-8833
ADV PG 204	
TELEDYNE GEOTECH GARLAND TX	214-271-2561
AMF Geo Space Corp Houston TX	713-666-1611
Bell Aerospace Textron Div Buffalo NY	716-297-1000
Benthos Inc North Falmouth MA	617-540-5500
Bison Instruments Inc Minneapolis MN	612-926-1846
CPN Corp Pacheco CA	415-687-6472
EG & G Inc Environmental Equip Div Waltham MA	617-890-3710
Enviromarine Systems Inc Laurel MD	301-598-8833
Floating Point Systems Portland OR	503-641-3151
Gould Inc Recording Systems Div Cleveland OH	216-361-3315
KahlScientific Instrument Corp El Cajon CA	619-444-2158
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Raytheon Ocean Systems Co	
East Providence RI.....	401-438-1780
Sea Data Corp Newton MA.....	617-244-3216
Sprengnether Instruments Inc St Louis MO.....	314-535-1682
Teledyne Geotech Garland TX.....	214-271-2561

GERMANIUM

See Semiconductors

GERMANIUM DEVICES

See Diodes; Rectifiers; Transistors

GETTERS

See Chemicals—Electron Tube; Tube Parts

GLASS & GLASS PARTS

GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT CLEVELAND OH..... 216-266-2451 ADV PG 205

Atlantic Optical Moulding Co Dudley MA.....	617-943-1746
Forming Glass Works Elctn Materials Dept	
Corning NY.....	607-974-4102
Forming Glass Works Tech Prods Div	
Corning NY.....	607-974-9000
Jell Optics Co Inc North Bergen NJ.....	201-869-7300
Lynasill Corp of America Berlin NJ.....	609-767-4600
Elgin Precision Glass Inc Elgin IL.....	312-931-1200
isco Products Oak Ridge NJ.....	201-697-3700
Ferro Corp Electronic Glasses Dept	
Cleveland OH.....	216-641-8580
ischer & Porter Co Warminster PA.....	215-674-6000
Federicks Co Huntingdon Valley PA.....	215-947-2500
usite Div Emerson Electric Co Cincinnati OH.....	513-731-2020
Warner Glass Co Claremont CA.....	714-624-5071
Gen Elec Co Glass & Metallurgical Prods Dept	
Cleveland OH.....	216-266-2451
Glass Beads Co Latrobe PA.....	412-537-7791
Inotech Corp Trumbull CT.....	203-371-0191
Lancaster Glass Corp Lancaster OH.....	614-653-0311
Keller Co Adolf Providence RI.....	401-331-3717
Kelles Griot Irvine CA.....	714-556-8200
Andrum Precision Products	
Rancho Culamonga CA.....	714-989-1728
Aykroy/Mycalex Clifton NJ.....	201-779-8866
recision Paper Tube Co Wheeling IL.....	312-537-4250
Richland Glass Co Richland NJ.....	609-691-1697
chott Electronics Ansonia CT.....	203-736-2677
emiconductor Mfg Corp Fairfield NJ.....	201-227-2432
oderberg Mfg Co Inc Walnut CA.....	714-695-1291
tamet Mfg Corp Fairfield NJ.....	201-227-2432
chnology Glass Div Union City CA.....	415-487-5860
ermal American Fused Quartz Co	
Montville NJ.....	201-334-7770

GLASS-BONDED MICA

See Mica

GLASSES—LOW-TEMPERATURE SEALING (SOLDER GLASS)

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Corning NY.....	607-974-4102
Electronic Materials Div Ferro Corp	
Santa Barbara CA.....	805-968-5000
Electro-Science Labs Inc King of Prussia PA.....	215-272-8000
erro Corp Electronic Glasses Dept	
Cleveland OH.....	216-641-8580
Glass Beads Co Latrobe PA.....	412-537-7791
Inotech Corp Trumbull CT.....	203-371-0191
Richland Glass Co Richland NJ.....	609-691-1697
chott Electronics Ansonia CT.....	203-736-2677
emiconductor Mfg Corp Fairfield NJ.....	201-227-2432
tamet Mfg Corp Fairfield NJ.....	201-227-2432
chnology Glass Div Union City CA.....	415-487-5860
ransene Co Inc Rowley MA.....	617-948-2501

GLASSES—SEMICONDUCTING

HIGH VACUUM ELECTRONICS INC LUMBERTON NC..... 919-738-1219 ADV PG 78

Atlantic Optical Moulding Co Dudley MA.....	617-943-1746
Forming Glass Works Elctn Materials Dept	
Corning NY.....	607-974-4102
Electrical Industries Div Philips Elctns Inc	
Murray Hill NJ.....	201-464-3200
Elgin Precision Glass Inc Elgin IL.....	312-931-1200
Ifth Dimension Inc Trenton NJ.....	609-393-8350
High Vacuum Electronics Inc Lumberton NC.....	919-738-1219
Inotech Corp Trumbull CT.....	203-371-0191
actical Products Co Cincinnati OH.....	513-891-1471
Richland Glass Co Richland NJ.....	609-691-1697
emiconductor Mfg Corp Fairfield NJ.....	201-227-2432
tamet Mfg Corp Fairfield NJ.....	201-227-2432

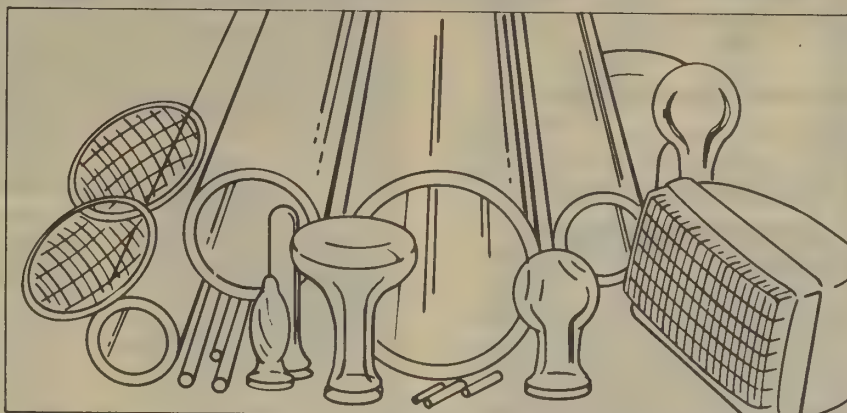
GLASS-INSULATED WIRE

See Wire—High Temperature

For addresses, phones & sales offices, see green pages



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Close tolerance tubing in a wide range of diameters, bulb blanks in various sizes and shapes, and glass parts pressed to custom designs. All made to General Electric's high standards. The line includes:

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GENERAL ELECTRIC

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See Jewels

GLASS SEALING METALS

See Metals—Glass-Sealing Alloys; Wire,
Bare—Glass-Sealing

GLASS SEALS

See Package Parts—Hermetic Seals

GLASS SUBSTRATES

See Substrates

GLOVE BOXES

See Dry Boxes & Glove Boxes

GLOVES & FINGER

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Angelica Uniform Group St Louis MO.....	800-325-8032
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Clean Room Products Inc Ronkonkoma NY.....	516-588-7000
Edmont Coshocton OH.....	614-622-4311
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Injectoral Electronics Corp Glen Cove NY.....	516-671-6010
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Multi Products International Cedar Grove NJ.....	201-239-8183
Research Associates Inc Linden NJ.....	201-862-1154
Standard Glove Co of N J Englewood NJ.....	201-567-7500
U S Laser Corp Wyckoff NJ.....	201-848-9200
Vidaro Corp Kent OH.....	216-673-7413

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Applied Plastics Co Inc El Segundo CA.....	213-322-8050
Engelhard Industries Iselin NJ.....	201-321-5900
General Scientific Equipment Co	
Philadelphia PA.....	215-564-6366

Kewaunee Scientific Equip Corp Flex Furniture Div	
Plainwell MI.....	616-685-6831
Kirk & Blum Mfg Co Cincinnati OH.....	513-351-1400
Mine Safety Appliances Co Pittsburgh PA.....	412-273-5175
Minor Rubber Co Inc Bloomfield NJ.....	201-338-6800
Solid State Equipment Corp	
Fort Washington PA.....	215-643-7900
Vacuum Atmospheres Co Inc Hawthorne CA.....	213-644-0251
Vidaro Corp Kent OH.....	216-673-7413

GOLD

See Metals; Plating Anodes—Precious Metals;
Wire, Bare; Metal Tubing—Precision

GOLD PLATING SERVICES

See Production Services—Plating

GONIOMETERS

Cardwell Condenser Corp Lindenhurst NY.....	516-957-7200
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Olektron Corp Webster MA.....	617-943-7440
Transicoil Inc Worcester PA.....	215-277-1300
Carl Zeiss Inc Thornwood NY.....	914-747-1800

GOVERNORS—MOTOR

See Controls—Motor Speed

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See Displays

GRAPHIC RECORDERS

See Oscillographs; Recorders, Graphic

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Hewlett-Packard Palo Alto CA	415-857-8000
Keuffel & Esser Co Parsippany NJ	201-428-7000
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OMEGA ENGINEERING INC	
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ADV PG 385 Gatefold	
Appleton Papers Inc Appleton WI	414-734-9841
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Heath Co Benton Harbor MI	616-982-3200
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FT Washington PA	215-641-3000
Kent Process Control Inc Edison NJ	201-225-1717
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Linear Instruments Corp Reno NV	702-786-3636
Marel Instrument Co Cape Coral FL	813-574-8788
MFE Instruments Corp Salem NH	603-893-1921
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Pioneer Instrumentation Div Pioneer Std	
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Western Graphtec Inc Irvine CA	714-770-6010
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ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Gould Inc Recording Systems Div	
Cleveland OH	216-361-3315
Graphic Controls Corp Buffalo NY	716-853-7500
Hewlett-Packard Palo Alto CA	415-857-8000
Keuffel & Esser Co Parsippany NJ	201-428-7000
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Solttec Corp Sun Valley CA	818-767-0044
Western Graphtec Inc Irvine CA	714-770-6010
Yokogawa Corp Of America Shenandoah GA	404-253-7000

GREASE

See Lubricants; Silicone Grease

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See Meters

GRIDS

See Tube Parts

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AME Corp Little Falls NJ	201-256-3939
Amrad Div Transcon Mfg Co Ft Smith AR	501-452-3987
Auburn Mfg Co Middletown CT	203-346-6677
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Barry Controls Unit Barry Wright Corp	
Watertown MA	617-923-1150
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Bruce Plastics Inc Pittsburgh PA	412-787-2100
Budwig Mfg Co Ramona CA	619-789-0900
Chomerics Inc Woburn MA	617-935-4850
Concord Electronics Corp New York NY	212-777-6571
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Da/Pro Rubber Inc Tulsa OK	918-258-9386
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Electrovert Inc Indus Elec & Elctn Prods	
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GC Electronics Div Household Intl	
Rockford IL	815-968-9661
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Minor Rubber Co Inc Bloomfield NJ	201-338-6800
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Richco Plastic Co Chicago IL	312-539-4060
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Shamban & Co W S Santa Monica CA	213-397-2195
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Philadelphia PA	215-423-7077
SPC Technology Bensenville IL	312-766-6711
Stimpson Co Inc Bayport NY	516-472-2000

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Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Cober Electronics Inc Stamford CT	203-327-0003
3M Co Static Control Systems Austin TX	800-328-1368
National Radio Components Div Strux Corp	
Lindenhurst NY	516-957-8000
Porcelain Products Co Carey OH	419-396-7621
UNR-Rohn Peoria IL	309-697-4400

GUIDES—PRINTED CIRCUIT

See Printed Circuit Board Frames & Fittings

GUNN DIODES

See Diodes—Microwave Oscillator

GUNN OSCILLATORS

See Oscillators, RF—Microwave Diode

GYRATORS

See Microwave Circulators & Gytrators

GYROCOMPASSES

See Compasses

GYROS (EXCEPT FOLLOWING TYPES LISTED)

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Concor Pacific Industries Inc	
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Electro-Nav Inc Elizabeth NJ	201-527-0099
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Intratec Div British Aerospace Inc	
Washington DC	703-435-9100
Janitrol Aero Div Midland-Ross Corp	
Columbus OH	614-276-3561
Larson Aero Development Martinez CA	415-228-7870
Lear Siegler Inc Santa Monica CA	213-452-5444
Lear Siegler Inc Instrument Div	
Grand Rapids MI	616-241-7000
Litton Industries Guidance & Controls Sys Div	
Woodland Hills CA	818-715-4040
Midland-Ross Corp/General Design	
Sun Valley CA	213-875-1260
Northrop Corp Prec Prods Div Norwood MA	617-762-5300
Singer Co Kearfott Div Little Falls NJ	201-785-6000
Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
Watson Industries Inc Eau Claire WI	715-839-0628

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Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311

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Lear Siegler Inc Santa Monica CA	213-452-5444
Lear Siegler Inc Instrument Div	
Grand Rapids MI	616-241-7000
Litton Industries Guidance & Controls Sys Div	
Woodland Hills CA	818-715-4040
Northrop Corp Prec Prods Div Norwood MA	617-762-5300
Singer Co Kearfott Div Little Falls NJ	201-785-6000

GYROS—SUSPENSION

Northrop Corp Prec Prods Div Norwood MA	617-762-5300
Singer Co Kearfott Div Little Falls NJ	201-785-6000

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HAIRSPRINGS

See Springs—Instrument

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FT Lauderdale FL	305-587-1100
American Aerospace Controls Inc	
Farmingdale NY	516-694-5100
Anasco Corp Wakefield MA	617-246-3300
Bell Inc F W Orlando FL	305-678-6900
Dowty RFL Indus Instr Div Boonton NJ	201-334-3100
Electric Switches Inc Los Angeles CA	213-660-1310
Ghiemetti Inc Los Angeles CA	213-463-5111
Keithley Instruments Inc Cleveland OH	216-248-0400
LDJ Inc Troy MI	313-528-2200
Magnetic Instrumentation Inc Indianapolis IN	317-545-2100
Micro Mo Electronics Inc St Petersburg FL	813-822-2525
Micro Switch A Honeywell Div Freeport IL	815-235-6600
Ohio Semitronics Inc Columbus OH	614-486-9596
Peerless Radio Corp Lynbrook NY	516-593-2121
Phillips ECG Inc Waltham MA	617-890-6107
Sager Hingham MA	617-749-6700
Siemens Components Inc Iselin NJ	201-321-3400
Sprague Electric Co Lexington MA	617-862-5500
Thomson CSF Inc White Plains NY	914-694-4425
TRW Optoelectronics Div Carrollton TX	214-323-2200
Wabash Electrical Components Group	
Huntington IN	219-356-8300
Walker Scientific Inc Worcester MA	617-852-3674

HANDLES

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CONCORD ELECTRONICS CORP	
NEW YORK NY	212-777-6571
KEYSTONE ELECTRONICS CORP	
NEW YORK NY	212-475-4600
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
UNICORP ORANGE NJ	201-674-1701
ADV PG 208	
Accessories for Electronics Inc Baldwin NY	516-546-1750
Amatom Electronic Hardware Co	
New Haven CT	203-397-3311
Amrad Div Transcon Mfg Co Ft Smith AR	501-452-3987
Bivar Inc Irvine CA	714-951-8880
Bruce Plastics Inc Pittsburgh PA	412-787-2100
Bud Industries Inc Willoughby OH	216-946-3200
Churchill Corp Melrose MA	800-225-3933
Concord Electronics Corp New York NY	212-777-6571
Davies Molding Co Harry Chicago IL	312-622-8966
D-Cemco Inc Burbank CA	213-849-6334
Dimco-Gray Co Centerville OH	513-433-7600
Eberhard Mfg Co Strongsville OH	216-238-9722
Electronic Hardware Corp Farmingdale NY	516-752-1955
Fibre Materials Corp Plainville CT	516-349-1666
Hammond Mfg Co Inc Buffalo NY	716-894-5711
Hartwell Corp Placentia CA	714-993-4220
Jan Hardware Mfg Co Inc	
Long Island City NY	212-361-0800
Keystone Electronics Corp New York NY	212-475-4600
Kulka Smith Inc Manasquan NJ	201-223-9400
Microavionics Costa Mesa CA	714-957-6900
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
Mobil Electronics Inc Anderson IN	317-642-7970
Nielsen Hardware Corp Hartford CT	203-522-8124
Norelcom Industries Inc Farmingdale NY	516-249-7262
Optima Div Scientific-Atlanta Inc Tucker GA	404-939-6334
PIC Design Middlebury CT	203-758-8282

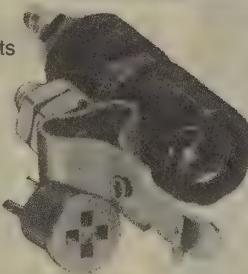
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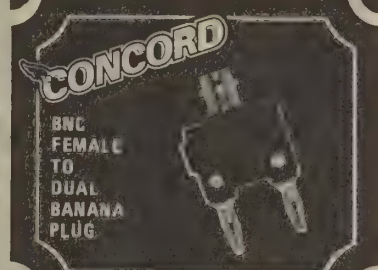
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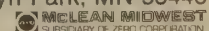
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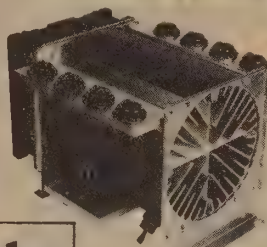
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rol Aero Div Midland-Ross Corp.....	
olumbus OH.....	614-276-3561
a Smith Inc Manasquan NJ.....	201-223-9400
khart Industries Inc Paramount CA.....	213-774-2981
ic Dynamics Inc Gardena CA.....	213-770-8151
y Bearing & Electronics Woburn MA.....	617-933-2110
ry Mann Inc Huntingdon Valley PA.....	215-355-7200
terite Industries Corp Torrance CA.....	213-775-3471
or-Materials Electronics Products Corp.....	
enton NJ.....	609-393-4178
adnock Co City of Industry CA.....	818-964-6581
iser Electronics Mansfield TX.....	817-483-0165
onal Beryllia Div/General Ceramics Inc.....	
askell NJ.....	201-839-1600
lcom Industries Inc Farmingdale NY.....	516-249-7262
n Products Inc Menlo Park CA.....	415-365-0632
Electronics Inc Bloomfield NJ.....	201-748-5089
t Distributors Inc Bridgeport CT.....	203-366-7200
ps ECG Inc Waltham MA.....	617-890-6107
erex Inc Youngwood PA.....	412-925-7272
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s Co Milton Southampton PA.....	215-355-0200
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ee Metals—Glass-Sealing; Wire, Bare—Glass

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Printed Circuit Board Frames

Racks

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Transistor Parts

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HYBRID JUNCTIONS &

TEES—MICROWAVE

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HYDROFORMED PARTS

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HYDROPHONES

AMETEK Straza Div El Cajon CA.....	619-442-3451
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Canoga Park CA.....	818-884-6860
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Waltham MA.....	617-890-3710
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Hicksville NY.....	516-933-3408
Hazeltine Corp Commack NY.....	516-462-5100
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Santa Barbara CA.....	805-685-1441
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IC PACKAGES

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Research Triangle Pk NC.....	919-549-3100
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Colorado Springs CO.....	303-577-1000
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Micra Corp Hauppauge NY.....	516-231-8600

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THIN FILM—THICK FILM—HYBRIDS

THIN FILM

Precision Nichrome Thin Film

Features:

Gold Conductors
 Passivated or non-passivated
 TCR: ± 25 ppm—can be tailored to
 ± 5 ppm within this range
 TC Tracking: 1—2 ppm
 Tolerance: $1\pm .1\%$ Absolute
 (Value Dependent) Ratio to 12 Bit
 accuracy (.005%)
 Noise: < -35 dB Johnson Noise
 Stability: Absolute $< .1\%$ with 150°C Bake
 $< .2\%$ with 200°C Bake
 Value Range: 2 ohm to 10 megohm

THICK FILM

Features:

Gold, Platinum Gold, Palladium Silver, Silver
 Conductors
 Solderable, Wire Bondable Conductor
 Multi-Layer Capability
 Resistor Range: 1 ohm to 100 megohm
 Tolerance: $\pm .5\%$ Absolute
 Adaptable to Standard Assembly Methods
 Glazed or Unglazed Resistor Films
 Beryllia Substrates for Higher Power Available

HYBRID

Features:

Thermosonic Automatic Gold Ball Bonds
 Eutectic or Epoxy Chip Mount
 SMD Solder Capability
 Parallel Seam Seal Welding (Hermetic)
 Laser Trim Capability
 Full In-House Environmental Lab
 Hermeticity, Shock, Vibration,
 Moisture, X-Ray, etc.

Micropac Ind Inc Garland TX	214-272-3571
Mini-Systems Inc No Attleboro MA	617-695-0203
Mitel Corp Semiconductor Div Kanata ON	613-592-5630
Mitsubishi Electronics America Inc Torrance CA	213-515-3993
Miyagawa USA Corp Torrance CA	213-534-4985
MTS Co Inc Anaheim CA	714-630-4520
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Sperry Corp Aerospace & Marine Group Phoenix AZ	602-869-2311
Submarine Signal Div Raytheon Co Portsmouth RI	401-847-8000
Tau-Tron Inc Westford MA	617-692-5100
Tektron Micro Electronics Inc Linthicum Hts MD	301-850-4200
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Aptek Microsystems Deerfield Beach FL	305-421-8450
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GKD Electronics Santa Ana CA	714-261-2271
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Grueman Electronics Systems Div Great River NY	516-435-6000
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
HEI Inc Victoria MN	612-443-2500
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Hughes Aircraft Co Microelectronic Circuits Div Newport Beach CA	714-759-2411
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Hybrid Sources Inc Wilmington MA	617-657-4775
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Nw μ

CUSTOM HYBRID CIRCUITS

MFG. PROCESSES

- THICK FILM SCREENING & FIRING (multilayer)
- RESISTOR TRIMMING (.1%)
- DIE BONDING (epoxy)
- GOLD & ALUM. WIRE BONDING (.7 to 5 mil)
- TESTING AND SEALING (SIP, DIP, flatpack, chip carrier)

DESIGN SUPPORT

- SCREENS FROM YOUR FILM, ARTWORK, OR SCHEMATIC
- CKT DESIGN FROM YOUR SPECS

FEATURES

- LOW SET-UP COSTS
- FAST TURN-AROUND

NORTHWEST MICROCIRCUITS

5464 SW Philomath
 Corvallis, Oregon 97333
 Phone: (503) 753-8242



Hybrid Integrated Circuits

Product Offering

Custom Design

Bell Laboratories can design a custom hybrid IC from your circuit specifications. Our experienced application and design engineers work with you to partition and develop a hybrid implementation of your circuit design.

Early involvement with our engineers permits maximum utilization of the benefits of hybrids.

Hybrid Technology

AT&T will recommend the most appropriate technology for your hybrid circuit. Our selection of hybrid technologies includes thin- and thick-film, multilayer thick-film, and PWB-based modules.

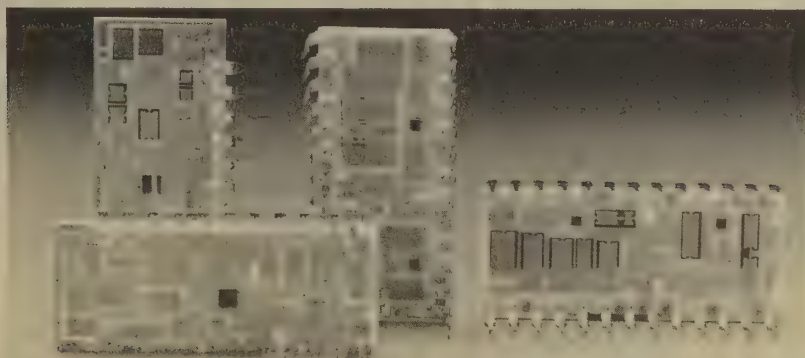
Components

AT&T makes a wide variety of components that can be placed on a

hybrid IC. In addition to thin- and thick-film resistors and capacitors, a full line of AT&T silicon integrated circuits is available for your hybrid application. Commercially available active and passive components in packaged or unpackaged configurations are also used. These include: flat packs, chip resistors, chip capacitors, chip inductors, SOTs, SOICs, chip carriers, and optical components.

Hybrid Packaging

AT&T hybrids are available in a variety of physical packages. Standard SIPs and DIPs often provide the most cost-effective design solution, but we also offer surface mount packages and a variety of leaded and unleaded packaging options.



For additional information, contact your AT&T Account Manager, or call:

☐ AT&T Technologies, 555 Union Boulevard, Dept. 50AL203140, Allentown, PA 18103
1-800-372-2447



Hybrid Integrated Circuits

Design Process

During the design of each hybrid module, AT&T uses standards that ensure a high-quality design. These standards, established by Bell Laboratories, are incorporated in a state-of-the-art computer aided design (CAD) system used to lay out the hybrid IC. Sophisticated computer programs are also employed for thermal analysis of your hybrid. When the design is com-

pleted, CAD tools are used to create the artwork necessary to produce masks and/or screens for the model fabrication process.

Once the hybrid is completed, you are supplied with samples for evaluation. Additional models are submitted to our design engineers to aid in the development of electrical and environmental test specifications, and if requested, to characterize the hybrid for electrostatic discharge (ESD) threshold levels. After your approval, the verified design is transferred directly to manufacture by means of advanced computer aided manufacture (CAM) tools.

Properties of Thin Film Components

	Specifications
Resistors	
Sheet Resistance	300 & 100 Ω /Sq. (75, 50 & 25 Ω /Sq.)*
Laser Trimmed (Abs)	$\pm 0.5\%$ ($\pm 0.1\%$)*
Laser Trimmed (Ratio)	$\pm 0.25\%$ ($\pm 0.05\%$)*
Stability (20 Yrs., 65°C)	+0.1% max.
Temp. Coef. of Res. (TCR)	-145 ± 20 ppm/°C
TCR Tracking	< 4.0 ppm/°C
Resistor Density	5 Ω /Res. to 3 M Ω /Crt.
Capacitors	
Capacitance Density	500 — 56000 pf/Crt. (100 — 56000 pf/Crt.)*
Dissipation Factor	$\leq .0024$ (1 kHz at 25°C)
Temp. Coef. of Cap. (TCC)	+145 ± 15 ppm/°C
Tolerance	$\pm 5.0\%$
Stability (20 Yrs., 65°C)	-0.1% max.
RC Product	
Tolerance	$\pm 0.3\%$ ($\pm 0.1\%$)*
Temp. Coef. of Freq. (TCF)	0.0 ± 25 ppm/°C
Conductors	
Sheet Resistance (Au)	50.0 m Ω /Sq. (5.0 m Ω /Sq.)*
Sheet Resistance (Cu)	(< 2.0 m Ω /Sq.)*

*Components with these tighter specifications are also available.

Properties of Thick Film Components

	Specifications
Resistors	
Sheet Resistance	0.1 Ω /Sq. to 10 M Ω /Sq.
Laser Trimmed (Abs)	$\pm 1.0\%$ ($\pm 0.5\%$)*
Laser Trimmed (Ratio)	$\pm 0.5\%$ ($\pm 0.25\%$)*
Stability (20 Yrs., 65°C)	+0.1%
Temp. Coef. of Res. (TCR)	+100 ppm/°C
TCR Tracking	< 50 ppm/°C
Capacitors	
Capacitance Density	10000 pf/Crt. (100 — 25000 pf/Crt.)*
Dissipation Factor	$\leq .035$ (1 kHz at 25°C)
Temp. Coef. of Cap. (TCC)	850 $\pm 20\%$ ppm/°C (25 to 85°C)
Tolerance	$\pm 25.0\%$
Stability (20 Yrs., 65°C)	-10.0% max.
RC Product	
Tolerance	$\pm 1.0\%$ ($\pm 0.5\%$)*
Conductors	
Sheet Resistance	25 — 45 m Ω /Sq. (2 — 3 m Ω /Sq.)*

*Components with these tighter specifications are also available.

For additional information, contact your AT&T Account Manager, or call:

□ AT&T Technologies, 555 Union Boulevard, Dept. 50AL203140, Allentown, PA 18103
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Hybrid Integrated Circuits

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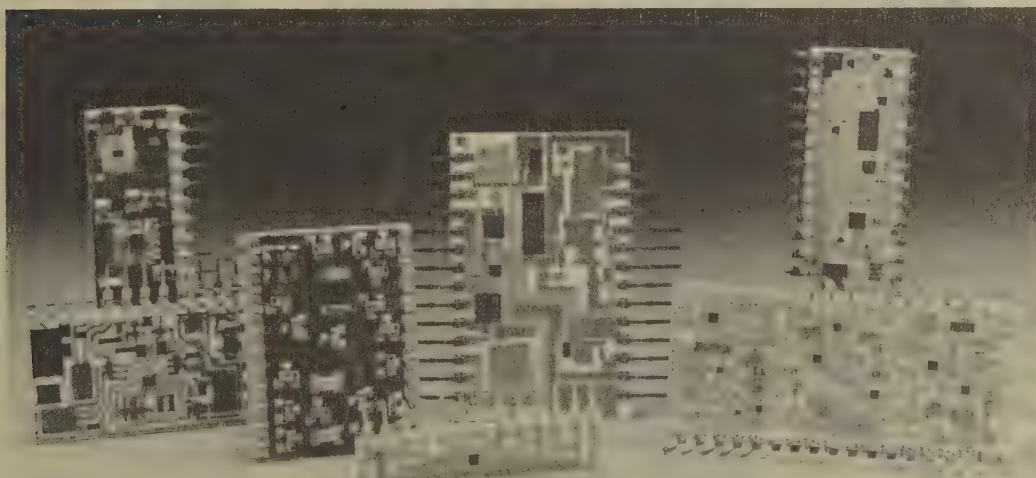
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National Micronetics Inc Semi-Films Div West Hurley NY	914-338-7714
National Semiconductor Corp Santa Clara CA	408-721-5000
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Philips Electronic Comps & Mats Div Eindhoven Netherlands	040791111
Piconics Inc Tyngsboro MA	617-649-7501
Rockwell Intl Corp Commercial Elctns Opers Richardson TX	214-996-5000
Sanyo Semiconductor Corp Allendale NJ	201-825-8080
Shipley Co Inc Newton MA	617-969-5500
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Teledyne Philbrick Dedham MA	617-329-1600
Telefunken electronic Hellbronn West Germany	07131 8821
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Varian Electron Device Group Palo Alto CA	415-493-4000

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White Technology Inc Phoenix AZ	602-437-1

ICS, HYBRID, STANDARD—CONSUMER ELECTRONICS CIRCUITS

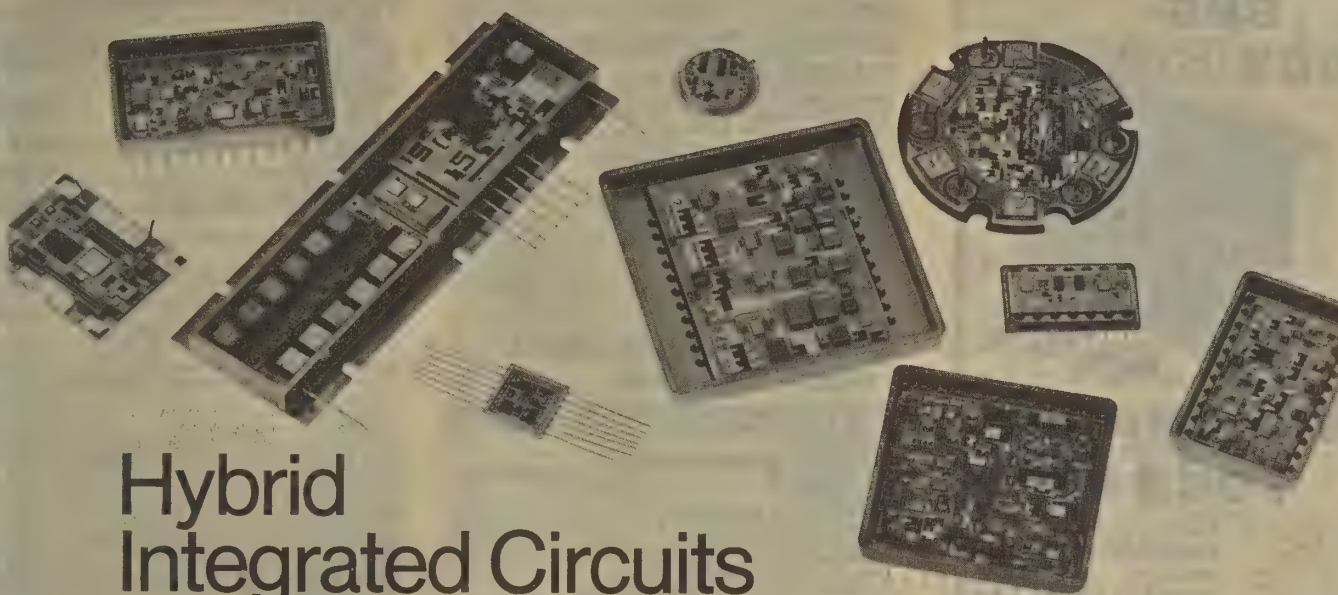
AEG CORPORATION SOMERVILLE NJ	201-722-9
ADV PG 219	
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Dymec Winchester MA	617-729-7
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Micro Power Systems Santa Clara CA	408-727-4
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Piconics Inc Tyngsboro MA	617-649-7
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Teledyne Philbrick Dedham MA	617-329-1
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Aeroflex designs, develops and manufactures custom hybrids for both military and industrial customers. We are qualified for use on B1, B52, F15, F16 and LAMPS MK III, plus numerous other ground and airborne systems and medical and communications equipment.

Will a custom hybrid do your job? Hybrid technology combines the quick-response design and manufacturing economies of the printed circuit assembly with the reliability and small size of the monolithic IC. To help you determine when the method will be cost effective, Aeroflex's experienced engineers will consider the circuit itself, manufacturing lead time, and the quantities involved.

Once the decision has been made, Aeroflex has the technical and manufacturing support to meet your most exacting requirements. Our circuit designers will put your parameters together into the smallest, lightest package consistent with effective performance.

We excel in designing active filters, sample and hold networks, low noise pre-amps, voltage regulators, drivers and receivers and digital interface circuits to meet MIL-STD-1553. Electrical performance is guaranteed by our automatic test systems.

In our complete manufacturing facility, Aeroflex has the skilled personnel and production equipment to meet every hybrid design and manufacturing requirement. For most designs, we use thick film deposition for its great flexibility. On occasion, however, we will utilize thin film chip components in conjunction with thick film resistors and conductors. Gold conductors and various silver alloys are often employed, as well as a variety of resistor inks to cover the full range of resistor values. We have and use both laser, for active trimming, and airbrasive trimming systems.

Packaging for all environments. Aeroflex commercial hybrids are often epoxy sealed in ceramic for industrial applications. Heavy duty packaging options include welded hermetically sealed all-metal cases including flat packs, dips, plug-ins and "TO" cans for military requirements.

Product Assurance, in and out. Our Product Assurance Department meets the requirements of MIL-Q-9858A. Quality Assurance, Quality Control, Qualification Testing and Equipment Calibration are its responsibilities. Incoming inspection is performed on semiconductors in accordance with MIL-STD-883, Method 2010.1 Level B. Similar criteria are applied to hybrid inspection. Screening and qualification testing to MIL-STD-883B, Method 5008 and MIL-M-38510 are also available.



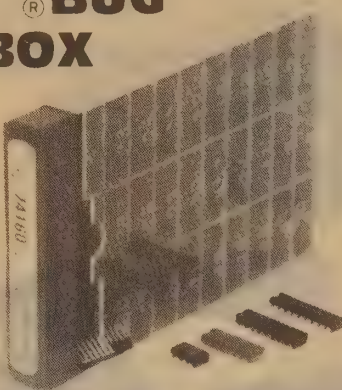
Microelectronics Division

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Rockwell Intl Corp Commercial Elctns Opers	
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Tau-Tron Inc Westford MA	617-692-5100
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Submarine Signal Div Raytheon Co	
Portsmouth RI	401-847-8000
Teledyne Microelectronics Los Angeles CA	213-870-9831
Teledyne Philbrick Dedham MA	617-329-1670
Transistor Specialties Inc Danvers MA	617-774-8722
Unitrode Corp Lexington MA	617-861-6700
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Comack NY	516-543-0000
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Panasonic Co Electronic Components Div	
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ard Microsystems Corp Huppauge NY.....	516-273-3100
ard Microsystems Corp Semicustom	
Huppauge NY.....	516-273-3100
shine Semiconductor Inc	
ewport Beach CA.....	714-675-6171
ertek Inc Sunnyvale CA.....	408-744-0100
ertek Inc Santa Clara CA.....	408-988-5600
unklen electronic Heilbronn West Germany.....	07 131 8821
W LSI Products Div LaJolla CA.....	619-457-1000
ersal Semiconductor Inc San Jose CA.....	408-436-1906
OS Corp Sunnyvale CA.....	408-730-8800

ICS, MONOLITHIC, CUSTOM—LINEAR

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ADV PG 219	
ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
A Corporation Somerville NJ.....	201-722-9800
Alpha Electronics Inc Brooklyn NY.....	718-633-2800
ntek Inc Santa Clara CA.....	408-496-6710
tom Integrated Circuits Minneapolis MN.....	612-542-1115
tom MOS Arrays Inc Milpitas CA.....	408-946-9111
ics Inc Westbury NY.....	516-997-7474
Reticon Sunnyvale CA.....	408-738-4266
Corp Sunnyvale CA.....	408-732-7970
anti Electric Inc Semi-Conductor Group	
omack NY.....	516-543-0200
Microelectronics Inc Santa Clara CA.....	408-727-1700
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is Corp Govt Sys Sector Melbourne FL.....	305-727-4000
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onix Inc Santa Clara CA.....	408-988-8000
ns Systems Inc Tustin CA.....	714-731-7110
ertek Inc Sunnyvale CA.....	408-744-0100
unklen electronic Heilbronn West Germany.....	07 131 8821
ns Inc Sunnyvale CA.....	408-732-4882
ns Instruments Optoelectronics Dallas TX.....	214-995-6611
W LSI Products Div LaJolla CA.....	619-457-1000
OS Corp Sunnyvale CA.....	408-730-8800

addresses, phones & sales offices, see green pages

**ICS, MONOLITHIC,
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(INCL CODECS, FILTERS, ETC.)**

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ADV PGS 213-215	
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AT & T Components & Electronic Systems	
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GTE Microcircuits Tempe AZ.....	602-968-4431
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MCE Semiconductor Inc West Palm Beach FL.....	305-845-2837
Mitel Corp Semiconductor Div Kanata ON.....	613-592-5630
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Motorola Semiconductor Products Inc	
Phoenix AZ.....	602-244-6900
NCR Microelectronics Div Miamisburg OH.....	513-866-7471
Orbit Semiconductor Inc Sunnyvale CA.....	408-744-1800
Raytheon Semiconductor Div	
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Supertex Inc Sunnyvale CA.....	408-744-0100
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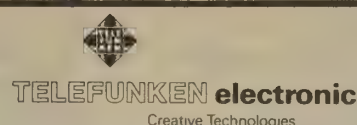
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Selko Instruments & Electronics Ltd	
Tokyo Japan.....	03-682-1111
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Sprague Solid State Willow Grove PA.....	215-657-8400

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- Audio Power Amps
- Ringers
- Speech Circuits

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TX: 833409

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NTE Electronics Inc Bloomfield NJ.....	201-748-5089
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Precision Monolithics Inc Santa Clara CA.....	408-727-9222
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RCA Solid State Div Somerville NJ.....	201-685-6000
SGS Semiconductor Corp Phoenix AZ.....	602-867-6100
Signetics Corp Sunnyvale CA.....	408-991-2000
Silicon General Semiconductor Div	
Garden Grove CA.....	714-898-8121
Siliconix Inc Santa Clara CA.....	408-988-8000
Sprague Electric Integrated Circuits Div	
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Toko America Inc Mt Prospect IL.....	312-297-0070

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NEC Electronics Inc Mtn View CA.....	415-960-6000
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RCA Solid State Div Somerville NJ	201-685-6000
SGS Semiconductor Corp Phoenix AZ	602-867-6100
Signetics Corp Sunnyvale CA	408-991-2000
Siliconix Inc Santa Clara CA	408-988-8000
Silicon Systems Inc Tustin CA	714-731-7110
SMD Technology Center Milwaukee WI	414-228-7632
Soltron Devices Inc Semiconductor Group Riviera Beach FL	305-848-4311
Teledyne Semiconductor Mtn View CA	415-968-9241
Texas Instruments Optoelectronics Dallas TX	214-995-6611
TRW LSI Products Div LaJolla CA	619-457-1000

ICS, MONOLITHIC, STANDARD—LINEAR, CONVERTERS, DIGITAL TO ANALOG

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Fujitsu Microelectronics Inc Santa Clara CA	408-727-1700
Harris Semiconductor Melbourne FL	305-724-7418
Hybrid Systems Corp Billerica MA	617-667-8700
Inmos Corp Colorado Springs CO	303-630-4000
Linear Technology Corp Milpitas CA	408-942-0810
Maxim Integrated Products Sunnyvale CA	408-737-7600
Mitel Corp Semiconductor Div Kanata ON	613-592-5630
Motorola Semiconductor Products Inc Phoenix AZ	602-244-6900
NEC Electronics Inc Mtn View CA	415-960-6000
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Philips Electronic Comps & Mats Div Eindhoven Netherlands	040791111
Precision Monolithics Inc Santa Clara CA	408-727-9222
Raytheon Semiconductor Div Mountain View CA	415-968-9211
Signetics Corp Sunnyvale CA	408-991-2000
Siliconix Inc Santa Clara CA	408-988-8000
Silicon Systems Inc Tustin CA	714-731-7110
SMD Technology Center Milwaukee WI	414-228-7632
Soltron Devices Inc Semiconductor Group Riviera Beach FL	305-848-4311
Teledyne Semiconductor Mtn View CA	415-968-9241
TRW LSI Products Div LaJolla CA	619-457-1000

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ALPHA ELECTRONICS INC BROOKLYN NY 718-633-2800 PHILIPS ECG INC WALTHAM MA 617-890-6107 ADV PG 216

Alpha Electronics Inc Brooklyn NY	718-633-2800
Custom Micro Systems Inc Livonia MI	313-559-5397
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Gould AMI Semiconductors Santa Clara CA	408-246-0330
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Maxim Integrated Products Sunnyvale CA	408-737-7600
MCE Semiconductor Inc West Palm Beach FL	305-845-2837
Motorola Semiconductor Products Inc Phoenix AZ	602-244-6900
NEC Electronics Inc Mtn View CA	415-960-6000
Philips ECG Inc Waltham MA	617-890-6107
Precision Monolithics Inc Santa Clara CA	408-727-9222
RCA Solid State Div Somerville NJ	201-685-6000
Signetics Corp Sunnyvale CA	408-991-2000
Silicon Systems Inc Tustin CA	714-731-7110
SMD Technology Center Milwaukee WI	414-228-7632
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ICS, MONOLITHIC, STANDARD—LINEAR, LINE DRIVERS & RECEIVERS

AEG CORPORATION SOMERVILLE NJ 201-722-9800 ADV PG 219

ALPHA ELECTRONICS INC BROOKLYN NY 718-633-2800 PHILIPS ECG INC WALTHAM MA 617-890-6107 ADV PG 216

Advanced Micro Devices Inc Sunnyvale CA	408-732-2400
AEG Corporation Somerville NJ	201-722-9800
Alpha Electronics Inc Brooklyn NY	718-633-2800
Exar Corp Sunnyvale CA	408-732-7970
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MCE Semiconductor Inc West Palm Beach FL	305-845-2837
Mitsubishi Electronics Amer Inc Semiconductor Div Sunnyvale CA	408-730-5900
Motorola Semiconductor Products Inc Phoenix AZ	602-244-6900
NEC Electronics Inc Mtn View CA	415-960-6000
Philips ECG Inc Waltham MA	617-890-6107
Raytheon Semiconductor Div Mountain View CA	415-968-9211
SGS Semiconductor Corp Phoenix AZ	602-867-6100
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SMD Technology Center Milwaukee WI	414-228-7632

ICS, MONOLITHIC, STANDARD—LINEAR, OPERATIONAL AMPLIFIERS

ALPHA ELECTRONICS INC BROOKLYN NY 718-633-2800 AT&T COMPONENTS & ELECTRONIC SYSTEMS ALLENTOWN PA 800-372-2447 ADV PGS 213-215

PHILIPS ECG INC WALTHAM MA 617-890-6107 ADV PG 216

Alpha Electronics Inc Brooklyn NY	718-633-2800
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Burr-Brown Corp Tucson AZ	602-746-1111
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Exar Corp Sunnyvale CA	408-732-7970
Fujitsu Microelectronics Inc Santa Clara CA	408-727-1700
Harris Semiconductor Melbourne FL	305-724-7418
Hybrid Systems Corp Billerica MA	617-667-8700
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Raytheon Semiconductor Div Mountain View CA	415-968-9211
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Philips Electronic Comps & Mats Div Eindhoven Netherlands	040791111
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Sanyo Semiconductor Corp Allendale NJ	201-825-8080
SGS Semiconductor Corp Phoenix AZ	602-867-6100
Signetics Corp Sunnyvale CA	408-991-2000
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Silicon Systems Inc Tustin CA	714-731-7110
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ICS, MONOLITHIC, STANDARD—LINEAR, TIMERS

ALMO ELECTRONICS INC PHILADELPHIA PA 215-698-4000 ADV PG Green Pages

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Signetics Corp Sunnyvale CA	408-991-2
SMD Technology Center Milwaukee WI	414-228-7
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ICS, MONOLITHIC, STANDARD—LINEAR, VOLTAGE REFERENCE

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Linear Technology Corp Milpitas CA	408-942-0810
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Sanyo Semiconductor Corp Allendale NJ	201-825-8
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Signetics Corp Sunnyvale CA	408-991-2
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ICS, MONOLITHIC, STANDARD—LOGIC & MEMORY, CMOS

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dard Microsystems Corp Hauppauge NY.....	516-273-3100
rtex Inc Santa Clara CA.....	408-988-5600
LSI Products Div LaJolla CA.....	619-457-1000
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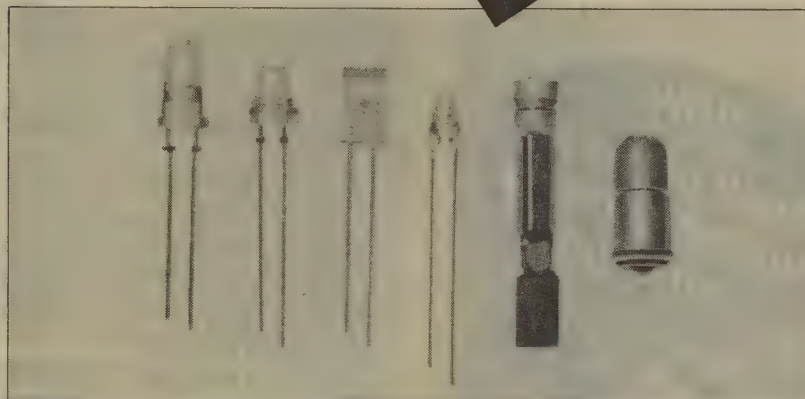
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Indicators—General Purpose; Panel Meters

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Recorders

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See Leak Detectors

INDICATORS—LEVEL

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Gages—Fuel; Ultrasonic Equipment—Level

Detectors

INDICATORS—MOISTURE

See Meters—Moisture

See Also Meters—Humidity;

Recorders—Humidity

INDICATORS—NULL

See Indicators, General Purpose—Null

INDICATORS—NUMERICAL OR ALPHANUMERICAL

See Display Listings; Indicator Lights; Indicators,

General Purpose; Tubes, Cathode-Ray—Shaped

Beam & Character; Tubes—Indicator

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See Monitors—Temperature; Pyrometers;

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See Controls—Thickness; Gages—Beta;

Gages—Dimension; Gages—Coating Thickness

INDICATORS—TORQUE

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Solid State Electronics Corp Northridge CA.....	818-993-8257
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SHELLEY-RAGON INC ST PAUL MN	612-542-282
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Coil Winders Mineola NY	516-746-231
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Delevan Div Amer Prec Indus Inc	
East Aurora NY	716-652-360
Delta Electronics Inc Alexandria VA	703-354-335
Delta Products Corp Milpitas CA	408-262-200
Designatronics Inc Sub Automatic Coil	
New Hyde Park NY	516-328-333
D & M Bock Inc Lancaster NH	603-788-357
Endicott Coil Co Inc Binghamton NY	607-797-126
E W C Inc Kenilworth NJ	201-245-320
Forbes & Wagner Inc Silver Creek NY	716-934-269
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Lindberg/Cycle-Dyne Unit Gen Signal	
Chicago IL	312-942-250
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Midland-Ross Corp Electronic Connector Div	
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North Hills Electronics Inc Glen Cove NY	516-671-570
NWL Transformers Bordentown NJ	609-298-730
Piconics Inc Tyngsboro MA	617-649-750
Prem Magnetics Inc McHenry IL	815-385-270
Raydyne/Ako Corp Butler WI	414-781-836
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Smallwood Ltd S G Kitchener ON	519-894-228
Standex Electronics Cincinnati OH	513-871-377
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TRW Electronic Assemblies Div Wheeling IL	312-319-050
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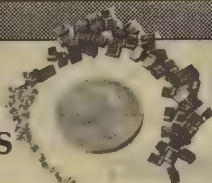


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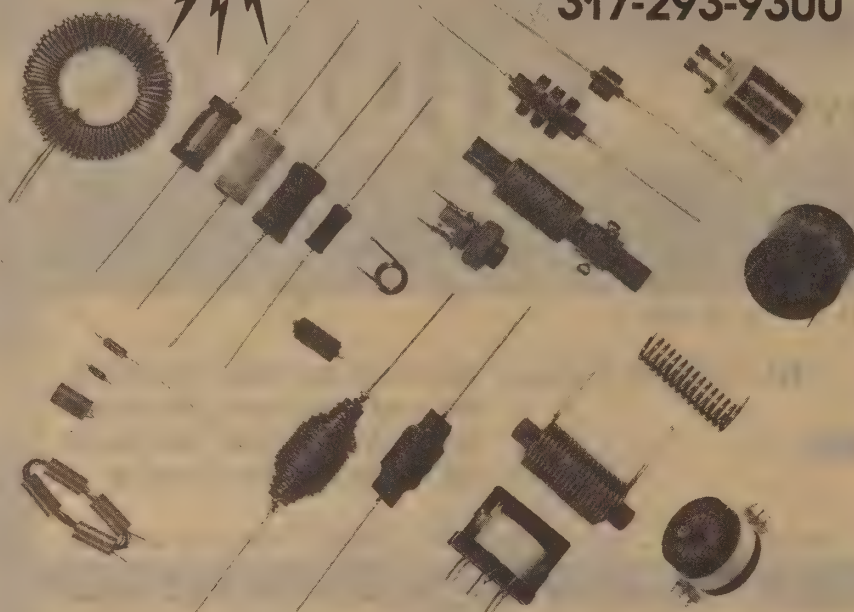
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DALE INDUCTORS

AXIAL LEAD CHOKES



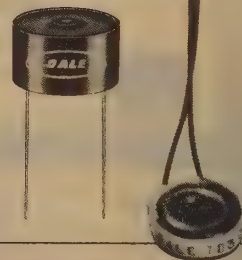
MOLDED Epoxy molded to meet MIL-C-15305, Grade 1, Class A, B. Qualifications include: MS-75083, MS-75084, MS-75085, MS-14046, MS-18130, MS-90538. Inductance range: .10 μ h to 10,000 μ h.

MOLDED SHIELDED inductors to meet MIL-C-15305, Grade 1, Class A. Qualifications include: MS-75087, MS-75088, MS-75089. Inductance range: .10 μ h to 100,000 μ h.

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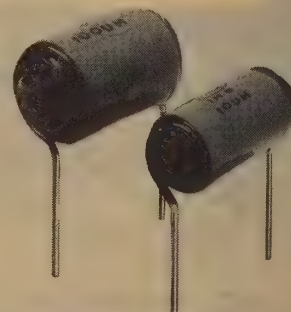
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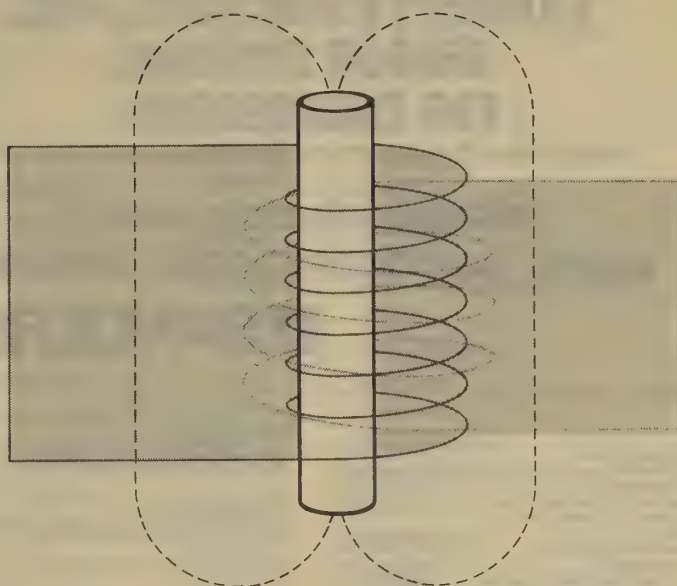
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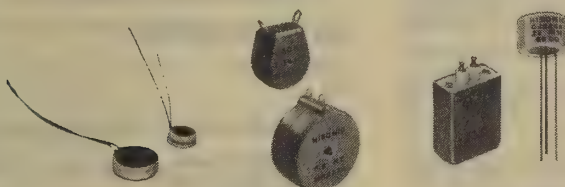
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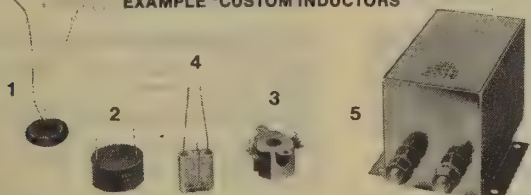
METAL CASED



*Toroidal Series	Ind. Range	Max. Q	Freq. Range	DC R Ohms/MH	Uncased Size
J2	5.6MH to 3.3HY	90	Up to 30 KHZ	.50	.620D x .30H
J3	2.7 to 470MH	110	20 to 150KHZ	1.1	.620D x .30H
J4	.56 to 33MH	110	100 to 400KHZ	5.1	.620D x .30H
J5	.10 to 10MH	150	250KHZ to 1.5MHZ	8.9	.620D x .30H
R2	6.8MH to 6.8HY	135	Up to 20KHZ	.18	.960D x .40H
R3	3.3 to 470MH	180	10 to 60KHZ	.39	.960D x .40H
R4	1.2 to 68MH	170	40 to 160KHZ	.90	.960D x .40H
S2	6.8MH to 15HY	160	Up to 15KHZ	.10	1.250D x .62H
S3	3.3 to 560MH	225	10 to 60KHZ	.21	1.250D x .62H
T2	22MH to 39HY	210	Up to 15KHZ	.045	1.850D x .85H
V2	68MH to 68HY	245	Up to 8KHZ	.028	2.400D x .92H
W2	100MH to 100HY	260	Up to 6KHZ	.021	2.700D x 1.05H

*Write for Series Bulletins on electrical and case style details

EXAMPLE *CUSTOM INDUCTORS



P/N	Fig.	Description	Characteristics	Type	Size
26-5103 Series	2	Encaps. PC Mtg.	See R Series Std.	Tor.	1.06x.5H
06-4000-27	1	DC Filter Choke	250uH@1.5ACD	Tor.	.970Dx.4H
06-4000-39	3	Var. Ind. PC Mtg.	90-110MH Q250	Pot.	.80Dx.5H
26-5034 Series	4	Xtal Case Mtg.	See J Series Std.	Tor.	.34x.75x.8H
26-5135-00	5	Shielded Choke	50uH@100ADC	Lam.	2.65x5x3H

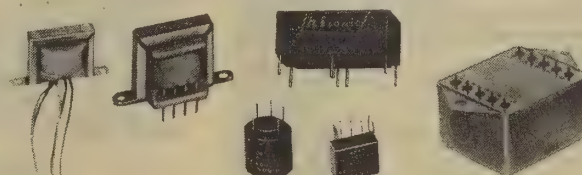
*Advise requirements for recommended solution and quotation

EXAMPLE DC CONV/AC POWER



P/N	Input	OP Freq.	VA Rating	Output Volts Peak (or RMS)	Size
24-0170-10	10V DC	24KHZ	0.8	20CT	.28x .6x .48H
24-0193-10	14/28V DC	6KHZ	18	4.7 11.5CT.22.5CT.550	1.8 ODx .94H
06-2124-10	200 V L-L	400HZ-30	840	200L-L	4.3x3.9x2.1H
24-0107-10	14/28V DC	2KHZ	27	90/45CT.180/25.180/25	2.1 ODx .88H
24-0512-10	260V PK	100PPS	20KVA PK	4.6 KV PK PULSE	2.5x2.3x1.1H
24-0114-10	14/28V DC	400HZ	75	26.60	2.9 ODx 1.5H
24-0271-10	14/28V DC	5KHZ	80	6.5CT.22.5CT.100.100	2.0x2.0x1.0H
24-0277-10	42V DC	10KHZ	200	100	2.0x2.5x1.2H
24-0177-10	10V AC	400HZ	2	1.4 1.4 10(RMS)	1.9 ODx .86H
24-0169-10	26V AC	400HZ	17	21/13CT(RMS)	1.0x1.4x1.3H
24-0215-10	115V AC	400HZ	180	20.27.27.42(RMS)	3.2x3.8x4.1H

EXAMPLE SIGNAL/PULSE/MATCH



P/N	Description	Impedance	Response	Level	Size
24-0239-11	Video Range Match	150:150.25	100KHZ-2.5MHZ	60mw	.63x.63x.44H
24-0275-10	Wide Band Match	135CT:1000	1KHZ-2MHZ	4mw	1.1 ODx.75H
24-0659-10	Syncro/Resolver	800 OHMS	400HZ	270mw	1.5x.75x.56H
24-0240-10	Wide Bank Hybrid	600.600+600	50HZ-50KHZ	1mw	1.8x2.0x1.0H
24-0171-10	Radio Freq. Hybrid	50.100+100	700KHZ-4MHZ	10mw	75 ODx.85H
24-0153-10	Pulse Match	10K 40K	tp1.2ms.tr60us	25mw	.53x.53x.7H
24-0180-10	Pulse Output	5.600w/tap	tp.4us.tr.2us	6KW	1.5 ODx.8H

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Hamamatsu Corp Middlesex NJ.....	201-469-6640
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IR Scientific Carlisle MA.....	617-667-7110
Lear Siegler Inc Electronic Instrumentation Div Anaheim CA.....	714-774-1010
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Sierra Scientific Mountain View CA.....	408-745-1500
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Xedar Corp Boulder CO.....	303-443-6441

INFRARED DETECTOR COOLING UNITS

CTI CRYOGENICS DIV HELIX TECH CORP WALTHAM MA.....	617-890-9400
MELCOR-MATERIALS ELECTRONICS PRODUCTS CORP TRENTON NJ.....	609-393-4178
ADV PG 142	
Andonian Cryogenics Inc Newtonville MA.....	617-969-8010
Ball Aerospace Systems Div Boulder CO.....	303-939-4000
Barnes Engineering Co Stamford CT.....	203-348-5381
CTI Cryogenics Div Helix Tech Corp Waltham MA.....	617-890-9400
Infrared Industries Inc Detector Div Orlando FL.....	305-282-7700
Marlow Industries Inc Garland TX.....	214-494-2521
Melcor-Materials Electronics Products Corp Trenton NJ.....	609-393-4178
Midland-Ross Corp Electronic Connector Div Cambridge MA.....	617-491-5400
Santa Barbara Research Center Goleta CA.....	805-968-3511
ThermoElectric Cooling America Corp Chicago IL.....	312-666-1600
United Detector Technology Hawthorne CA.....	213-978-0516

INFRARED DETECTORS

AEG CORPORATION SOMERVILLE NJ.....	201-722-9801
OMEGA ENGINEERING INC STAMFORD CT.....	203-359-1660
ADV PG Gatefold	
SANDERS ASSOCIATES INC NASHUA NH.....	603-885-4313
ADV PG 230	
THERMOMETRICS INC EDISON NJ.....	201-287-281
AEG Corporation Somerville NJ.....	201-722-9801
AGEMA Infrared Systems Secaucus NJ.....	201-867-5390
Automation Devices Inc Fairview PA.....	814-474-5551
Barnes Engineering Co Stamford CT.....	203-348-5381
Bowmar Instrument Corp Ft Wayne Div Ft Wayne IN.....	219-747-3131
Centronic Inc Mountainside NJ.....	201-233-7272
Cincinnati ElectroSystems Inc Loveland OH.....	513-831-4343
Coherent Inc Palo Alto CA.....	415-493-2121
Dexter Research Center Inc Dexter MI.....	313-426-3921
Ealing Corp South Natick MA.....	617-655-7070
Eastman Kodak Co Rochester NY.....	716-724-4040
Eaton Corp AIL Div Deer Park NY.....	516-595-5050
EG & G Inc Electro-Optics Div Salem MA.....	617-745-3211
Eltec Instruments Inc Daytona Beach FL.....	904-253-5353
Hamamatsu Corp Middlesex NJ.....	201-469-6666
Hewlett-Packard Palo Alto CA.....	415-857-8011
Honeywell Electro-Optics Div Lexington MA.....	617-862-6211
Inficon Leybold-Heraeus Inc East Syracuse NY.....	315-437-0303
Infrared Industries Inc Detector Div Orlando FL.....	305-282-7700
Judson Infrared Inc Montgomeryville PA.....	215-368-6969
Laser Precision Corp Utica NY.....	315-797-4449
M/C Products Scottsdale AZ.....	602-998-9595
Micropac Inc Inc Garland TX.....	214-272-3535
Motorola Semiconductor Products Inc Phoenix AZ.....	602-244-6969
Mountain West Alarm Supply Co Phoenix AZ.....	602-263-8888
Omega Engineering Inc Stamford CT.....	203-359-1660
Ortel Corp Alhambra CA.....	818-281-3636
RCA Distrib & Special Prods Div Deptford NJ.....	609-541-3636
Sanders Associates Inc Nashua NH.....	603-885-4313
Santa Barbara Research Center Goleta CA.....	805-968-3511
Sensor Technology Inc Chatsworth CA.....	213-882-4111
Servo Corp of America Hicksville NY.....	516-938-9700
Sparton Corp Jackson MI.....	517-787-8661
Sparton Electronics Div Sparton Corp Jackson MI.....	517-787-8661
Thermometrics Inc Edison NJ.....	201-287-2811

INFRARED FILMS

See Photographic Films

INFRARED HEATERS

See Heaters

INFRARED IMAGE CONVERTER TUBES

AEG CORPORATION SOMERVILLE NJ.....	201-722-9801
HUNTER PRODUCTS INC BRIDGEWATER NJ.....	201-526-841
AEG Corporation Somerville NJ.....	201-722-9801
Electrophysics Corp Nutley NJ.....	201-667-2262
Hamamatsu Corp Middlesex NJ.....	201-469-6666
Hunter Products Inc Bridgewater NJ.....	201-526-8411
RCA Distrib & Special Prods Div Deptford NJ.....	609-541-3636
Thomson-CSF Electron Tube Div Rutherford NJ.....	201-438-2323

INFRARED LAMPS

See Lamps

INFRARED MODULATORS

Computer Optical Products Inc Chatsworth CA.....	818-882-0404
Eaton Corp AIL Div Deer Park NY.....	516-595-5050
Electro-Optical Industries Inc Santa Barbara CA.....	805-964-6701
Infrared Industries Inc Detector Div Orlando FL.....	305-282-7700
Infrared Industries Inc-Instruments Div Santa Barbara CA.....	805-684-4181

INFRARED OPTICAL COMPONENTS (SEMICONDUCTORS & OTHER SPECIAL MATERIALS ONLY)

See Also Optical Components

AEG CORPORATION SOMERVILLE NJ.....	201-722-9801
PHILIPS ECG INC WALTHAM MA.....	617-890-6111
AEG Corporation Somerville NJ.....	201-722-9801
Aerofjet Electro Systems Co Azusa CA.....	818-334-6262
Amperex Electronic Corp Smithfield RI.....	401-762-3888
Atomergic Chemetals Corp Plainville NY.....	516-349-8888
Balzars Optical Group Marlborough MA.....	617-481-9898
Barnes Engineering Co Stamford CT.....	203-348-5381
Coherent Inc Palo Alto CA.....	415-493-2121
Cominco Electronic Materials Inc Spokane WA.....	509-924-2222
Corning Glass Works Tech Prods Div Corning NY.....	607-974-9000
Crystal Systems Inc Salem MA.....	617-745-0000
CVD Inc Woburn MA.....	617-933-9282

Electronic Crystal Industries Dover NJ.....	201-361-2222
etric Optics Inc Hudson MA.....	617-562-9373
agle-Picher Industries Inc Quapaw OK.....	918-673-1650
aling Corp South Natick MA.....	617-555-7000
astman Kodak Co Rochester NY.....	716-724-4000
ectrophysics Corp Nutley NJ.....	201-667-2262
ona Corp Port Jefferson Sta NY.....	516-331-5500
co Products Oak Ridge NJ.....	201-697-3700
rrand Optical Co Inc Valhalla NY.....	914-428-6800
eneral Diode Corp Framingham MA.....	617-879-0880
eneral Electric Semiconductor Syracuse NY.....	315-456-3447
eneral Ruby & Sapphire Corp	
New Port Richey FL.....	813-849-0638
ermanium Power Devices Corp Andover MA.....	617-475-5982
oneywell Electro-Optics Div Lexington MA.....	617-862-6222
frared Industries Inc Detector Div	
Orlando FL.....	305-282-7700
frared Industries Inc-Instruments Div	
Santa Barbara CA.....	805-684-4181
sser Optics Inc Danbury CT.....	203-744-4160
eller Co Adolf Providence RI.....	401-331-3717
elles Griot Irvine CA.....	714-556-8200
etavac Inc Flushing NY.....	718-445-0400
icropac Ind Inc Garland TX.....	214-272-3571
itsubishi Electronics Amer Inc Semiconductor Div	
Sunnyvale CA.....	408-730-5900
otorola Semiconductor Products Inc	
Phoenix AZ.....	602-244-6900
PC Products Corp Skokie IL.....	312-673-8300
ptical Coating Lab Inc Santa Rosa CA.....	707-545-6440
riel Corp Alhambra CA.....	818-281-3636
nnsylvania Optical Unit BMC Indus Inc	
Reading PA.....	215-376-5701
illips ECG Inc Waltham MA.....	617-890-6107
anta Barbara Research Center Goleta CA.....	805-968-3511
ervo Corp of America Hicksville NY.....	516-938-9700
licon Sensors Inc Dodgeville WI.....	608-935-2707
pectra-Physics Inc Mountain View CA.....	415-961-2550
tefunken electronic Heilbronn West Germany.....	07131 8821
terminal American Fused Quartz Co	
Montville NJ.....	201-334-7770
W Optoelectronics Div Carrollton TX.....	214-323-2200
ilted Detector Technology Hawthorne CA.....	213-978-0516
S Laser Corp Wyckoff NJ.....	201-848-9200
ari Zeiss Inc Thornwood NY.....	914-747-1800
zexo Van Nuys CA.....	818-997-7895

INFRARED OVENS

See Ovens

INFRARED SYSTEMS—INDUSTRIAL (EXCEPT HEATERS & OVENS)

CEMA Infrared Systems Secaucus NJ.....	201-867-5390
ines Engineering Co Stamford CT.....	203-348-5381
dd Cato Assoc Inc Brielle NJ.....	201-528-7439
apintec Instruments Inc Ramsey NJ.....	201-825-9500
herent Inc Palo Alto CA.....	415-493-2111
ectro-Optical Industries Inc	
Santa Barbara CA.....	805-964-6701
ectrophysics Corp Nutley NJ.....	201-667-2262
ec Instruments Inc Daytona Beach FL.....	904-253-5328
erco Seattle WA.....	206-762-1422
ngineering Design Denver CO.....	303-427-1955
erest Interscience Inc Tustin GA.....	714-992-4461
l/Fork Standards Inc Lombard IL.....	312-932-9380
raeus Amerill Inc Sayreville NJ.....	201-254-2500
frared Industries Inc Detector Div	
Orlando FL.....	305-282-7700
Scientific Carlisle MA.....	617-667-7110
nd Instruments Inc Tullytown PA.....	215-943-7882
-C Products Scottsdale AZ.....	602-998-9577
icropac Ind Inc Garland TX.....	214-272-3571
mco/Ramic Corp Medford OR.....	503-776-9800
flatemp Corp Fullerton CA.....	714-879-2901
illiamson Corp Concord MA.....	617-369-9607
rcoon Inc Portland OR.....	503-641-9525

INFRARED SYSTEMS—SCANNING MICROSCOPES

ines Engineering Co Stamford CT.....	203-348-5381
ectrophysics Corp Nutley NJ.....	201-667-2262
erest Interscience Inc Tustin GA.....	714-992-4461
frared Industries Inc Detector Div	
Orlando FL.....	305-282-7700
Scientific Carlisle MA.....	617-667-7110
search Devices Div Amer Optical Corp	
Berkeley Hts NJ.....	201-464-0668

INFRARED SYSTEMS—SCIENTIFIC & ANALYTICAL

See Also Spectrometers

MEGA ENGINEERING INC	
STAMFORD CT.....	203-359-1660
ADV PG Gatefold	
SANDERS ASSOCIATES INC NASHUA NH.....	603-885-4321
ADV PG 230	
rojet Electro Systems Co Azusa CA.....	818-334-6211
CEMA Infrared Systems Secaucus NJ.....	201-867-5390
all Aerospace Systems Div Boulder CO.....	303-939-4000
ines Engineering Co Stamford CT.....	203-348-5381
apintec Instruments Inc Ramsey NJ.....	201-825-9500
herent Inc Palo Alto CA.....	415-493-2111
avidson Optonics Inc West Covina CA.....	818-962-5181
exter Research Center Inc Dexter MI.....	313-426-3921
ton Corp ALL Div Deer Park NY.....	516-595-5000

ir addresses, phones & sales offices, see green pages

EG & G Gamma Scientific Inc San Diego CA.....	619-279-8034
Electro-Optical Industries Inc	
Santa Barbara CA.....	805-964-6701
Electrophysics Corp Nutley NJ.....	201-667-2262
Eltec Instruments Inc Daytona Beach FL.....	904-253-5328
Everest Interscience Inc Tustin GA.....	714-992-4461
Farrand Optical Co Inc Valhalla NY.....	914-428-6800
The Foxboro Co Foxboro MA.....	617-543-8750
Infrared Industries Inc Detector Div	
Orlando FL.....	305-282-7700
IR Scientific Carlisle MA.....	617-667-7110
Laser Precision Corp Utica NY.....	315-797-4449
Micropac Ind Inc Garland TX.....	214-272-3571
Nanometrics Inc Sunnyvale CA.....	408-735-1044
Omega Engineering Inc Stamford CT.....	203-359-1660
Research Devices Div Amer Optical Corp	
Berkeley Hts NJ.....	201-464-0668
Sanders Associates Inc Nashua NH.....	603-885-4321
Santa Barbara Research Center Goleta CA.....	805-968-3511
Servo Corp of America Hicksville NY.....	516-938-9700
UTI Instruments Co Milpitas CA.....	408-945-1955
Zexco Van Nuys CA.....	818-997-7895

INKS—MARKING (EXCEPT SILK-SCREEN INKS)

ALLEN AVIONICS INC DIV A K ALLEN CO INC	
MINEOLA NY.....	516-248-8080
GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT	
CLEVELAND OH.....	216-266-2451
Acromark Co Inc The Berkeley Heights NJ.....	201-464-6474
Allen Avionics Inc Div A K Allen Co Inc	
Mineola NY.....	516-248-8080
Assemblyonics Inc Brentwood NY.....	516-231-4440
Chart Pool USA Portage IN.....	219-763-1541
Dynachem Corp Tustin CA.....	714-730-4200
Eastern Marking Machines Hempstead NY.....	516-483-7070
Engelhard Industries Iselin NJ.....	201-321-5900
Formulabs Industrial Inks Inc Escondido CA.....	800-531-9358
Formulated Resins Inc Greenville RI.....	401-949-2060
Furane Products Co Los Angeles CA.....	818-247-6210
Gen Elec Co Glass & Metallurgical Prods Dept	
Cleveland OH.....	216-266-2451
Gillies Co Inc Duncan M West Boylston MA.....	617-835-4445
Graphic Controls Corp Buffalo NY.....	716-853-7500
Hysol Div The Dexter Corp Industry CA.....	213-968-6511
Injectorall Electronics Corp Glen Cove NY.....	516-671-6010
Lake Chemical Co Chicago IL.....	312-828-1700
Markal Co Chicago IL.....	312-828-1700
Markem Corp Keene NH.....	603-352-1130
Metron Optics Inc Solana Beach CA.....	619-755-4477
Organic Products Co Irving TX.....	214-438-7321
Phillips Process Co Inc Rochester NY.....	716-232-1825
Rawn Co Inc Spooner WI.....	715-635-8711
Shannon Luminous Materials Inc	
Santa Ana CA.....	714-432-0122
Strobite Co Inc New York NY.....	212-929-3778
Telesis Controls Corp Chillicothe OH.....	614-642-3200
UVP Inc San Gabriel CA.....	818-285-3123

INKS—SILK-SCREEN

See Silk-Screen Inks

INSTRUMENT CALIBRATION SERVICES

See Calibration Services

INSTRUMENT CASES

See Cases—Portable

INSTRUMENT RENTAL

See Test Equipment Rental

INSTRUMENTS & ACCESSORIES

See Categories Referenced as Follows:

Accelerometers

Adapters—Test

Aircraft Flight Panel Instruments

Aircraft Flight Recorders

Altimeters

Ammeters

Amplifiers, A-F—Laboratory

Amplifiers—Direct-Current Laboratory

Amplifiers, Analog Module

Amplifiers, Instrumentation & Control

Amplifiers—Operational

Amplifiers, R-F-Laboratory

Analyzers

Antenna Position Indicators

Attenuators

Audiometers

Barographs

Barometers

Baths—Constant Temperature

Battery Indicators

Bezels

Bridges

Cable Fault & Line Fault Locators

Cables

Calibration Services

Calibrators

Calorimeters (except Microwave)

Cameras

Cases—Portable

Centrifuges

Chambers

Chromatographs

Chronographs & Chronoscopes

Clips

Coils—Pickup

Collimators

Colorimeters

Communications Systems—Flight Test &

Telemetry

Communications Systems—Telemetry

Commutators

Comparators

Compasses

Computers

Controls

Converters

Counters

Cryogenic Equipment

Crystal Analysis Equipment

Dashpots

Data Acquisition & Logging Systems

Decade Boxes

Decoders

Decommutators

Delay Lines

Demodulators—Telemetry

Densitometers

Detectors, Standing Wave

Dial Listings

Display Listings

Dollies

Dosimeter Chargers

Dosimeters

Dynamometers

Electrometers

Electron Diffraction Equipment

Electron Microscopes

Filters—Instruments

Filters—Telemetry & Control

Fire Detectors & Alarms

Flaw Detectors

Flowmeters & Indicators

Gages

Galvanometers

Gas Analyzers

Gas Detectors & Alarms

For ADVERTISERS' CATALOGS see Directory of Catalogs (white pages)

Generators—Function
 Generators, Noise
 Generators, Signal
 Geophysical Equipment
 Goniometers
 Graph Paper
 Gyros
 Hall-Effect Devices
 Hydrophones
 Indicator Lights
 Indicators
 Inductances
 Infrared Listings
 Kits
 Lamps
 Laser Measuring & Aligning Systems
 Lasers
 Leads—Test
 Leak Detectors
 Machines—Balancing
 Machines—Resistor Network Trimming
 Machines—Sorting
 Magnetic Analysis Equipment
 Magnetic Tape Recorders
 Magnetic Tape Search Controls
 Magnetometers
 Medical Electronics Equipment
 Metal Detectors
 Meter Movements
 Meter Shunts
 Meters
 Microscopes
 Microwave Bolometers
 Microwave Calorimeters
 Microwave Dielectrometers
 Microwave Slotted Sections
 Microwave Systems—Scientific
 Monitors
 Monochromators
 Nuclear Analysis Equipment
 Ohmmeters
 Optical Analyzers
 Optical Comparators
 Optical Reflectometers
 Optoelectronic Listings
 Oscillators
 Oscillographs
 Oscilloscopes
 Panels
 Particle Analyzers
 Photocells
 Photometers
 Plugs—Test Lead Terminal
 Pollution Detectors
 Potentiometers—Precision
 Power Supplies
 Printers
 Probes
 Programmers—Instrument
 Programmers—Power Supply

Pyrometers
 Racks
 Radar sondes
 Radar Target Simulators
 Radioactive Sources
 Radiographic Equipment—Gamma Ray
 Radiometers
 Radiosondes
 Ratiometers
 Receivers, Radio Communications—Telemetry & Control
 Receivers, Radio Communications—WWV
 Recorders
 Resistors, Variable
 Scintillators
 Seismographs
 Servo Analyzers
 Servo Indicators
 Shock Test Equipment
 Sonobuoys
 Spectrometers
 Spectrophotometers
 Spectroscopes
 Standards
 Stroboscopes
 Surface Analyzers
 Synchro Converters
 Synchro Resolver Simulators & Bridges
 Synchros—Indicators
 Tachometers
 Terminations (Loads)
 Test Equipment Rental
 Testers
 Test Sets
 Test Systems
 Thermistors
 Thermocouple Listings
 Thermoelectric Generators—Current Measuring
 Thermometers
 Thermopiles—Measuring
 Thermostats
 Time Code Generators
 Timers
 Torque Analyzers
 Traffic Detectors
 Transducers
 Transformers, Special—Instrument
 Transmitters, Radio Communications—
 Telemetry & Control
 Tubes, Cathode Ray
 Tubes, Indicator
 Tubes, Phototubes
 Ultrasonic Equipment
 Vibration Analysis Equipment
 Vibration Mounts
 Vibration Test Machines
 Voltage Test Machines
 Voltage Sources—Decade
 Voltmeters
 Volt-Ohm-Milliammeters

Watt-Hour Meters—D-C
 Wattmeters
 Word Generators
 X-Ray Equipment

INSULATION MATERIALS

See Materials Reference List

INSULATION TESTERS

See Testers—Insulation

INSULATORS—ANTENNA

See Antenna Insulators

INSULATORS—CERAMIC

See Ceramics

INSULATORS—FEED-THROUGH

CERAMASEAL DIV CLEVEPAK CORP
 NEW LEBANON CENTER NY..... 518-794-780
 CONCORD ELECTRONICS CORP
 NEW YORK NY..... 212-777-657
 Accessories for Electronics Inc Baldwin NY..... 516-546-173
 Alberox Corp New Bedford MA..... 617-995-172
 Arnel Electronics Inc North Bergen NJ..... 201-869-420
 Augat/Pylon Co Inc Attleboro Falls MA..... 617-699-764
 Birnbach Co Inc Farmingdale NY..... 516-420-980
 Budd Cato Assoc Inc Brielle NJ..... 201-528-743
 Ceramaseal Div Clevepak Corp
 New Lebanon Center NY..... 518-794-780
 Cleveland Mica Co Lakewood OH..... 216-226-138
 Concord Electronics Corp New York NY..... 212-777-657
 D-Cemco Inc Burbank CA..... 213-849-634
 Diamonite Products Shreve OH..... 216-567-214
 Dixon Industries Corp Bristol RI..... 401-253-200
 Duramic Products Inc Palisades Park NJ..... 201-947-833
 Electrical Industries Div Philips Electrics Inc
 Murray Hill NJ..... 201-464-320
 Electrical Refractories Co East Palestine OH..... 216-426-942
 Ercona Corp Port Jefferson Sta NY..... 516-331-556
 Fibre Materials Corp Plainville NY..... 516-349-168
 Fusite Div Emerson Electric Co Cincinnati OH..... 513-731-201
 Garner Glass Co Claremont CA..... 714-624-507
 Hermetic Seal Corp Rosemead CA..... 213-283-041
 Heyco Molded Products Kenilworth NJ..... 201-245-003
 Hiram Jones Electronics North Hollywood CA..... 213-875-027
 Iden Industries Inc Millington NJ..... 201-647-273
 Isolantite Mfg Co Inc Stirling NJ..... 201-647-333
 Kulka Smith Inc Manasquan NJ..... 201-223-940
 McVen Electronics Lab Red Bank NJ..... 201-741-171
 Midland-Ross Corp Electronic Connector Div
 Cambridge MA..... 617-491-540
 Mykroy/Mycalex Clifton NJ..... 201-779-888
 National Ceramic Co Trenton NJ..... 609-394-537
 Orion Resdel Corp Rio Grande NJ..... 609-886-111
 Oxley Developments Co Ltd
 Ulverston Cumbria England..... 0229-5267
 Penn Fibre & Specialty Co Philadelphia PA..... 215-288-737
 Plastiglide Mfg Corp Hawthorne CA..... 213-777-811
 Quality Components Inc St Marys PA..... 814-834-281
 Ross Co Milton Southampton PA..... 215-355-021
 Schott Electronics Ansonia CT..... 203-736-267
 Sealectro Corp Trumbull CT..... 203-372-417
 Sparrell Engineering Research Corp
 Damariscotta ME..... 207-563-322
 Spruce Pine Mica Co Inc Spruce Pine NC..... 704-765-422
 Staffall Inc Providence RI..... 401-351-821
 Staff Gasket Mfg Corp New York NY..... 212-675-401
 Star Porcelain Co Trenton NJ..... 609-392-318
 Stevens Products Inc East Orange NJ..... 201-672-210
 Steward Mfg Co D M Chattanooga TN..... 615-867-410
 Swiss Jewel Co Philadelphia PA..... 215-925-288
 Taurus Corp Lambertville NJ..... 609-397-233
 Teknational Industries Inc Rochester NY..... 716-232-125
 USECO Div Litton Systems Inc Van Nuys CA..... 818-786-938
 Varian Electron Device Group Palo Alto CA..... 415-493-404

INSULATORS—FUSED QUARTZ

See Quartz—Fused

INSULATORS—PLASTIC

See Plastics

INSULATORS—STANDOFF

CERAMASEAL DIV CLEVEPAK CORP
 NEW LEBANON CENTER NY..... 518-794-780
 CONCORD ELECTRONICS CORP
 NEW YORK NY..... 212-777-657
 KEYSTONE ELECTRONICS CORP
 NEW YORK NY..... 212-475-460
 SUPERIOR TECHNICAL CERAMICS CORP
 ST ALBANS VT..... 802-527-772
 ADV PG 81
 UNICORP ORANGE NJ..... 201-674-170
 ADV PG 208
 Aavid Engineering Inc Laconia NH..... 603-524-444
 Accessories for Electronics Inc Baldwin NY..... 516-546-173
 Accusonic Systems Corp New Hyde Park NY..... 516-328-330

Iberco Corp New Bedford MA	617-995-1725
matom Electronic Hardware Co	
New Haven CT	203-397-3311
rnel Electronics Inc North Bergen NJ	201-869-4201
erguist Co Minneapolis MN	612-835-2322
imbach Co Inc Farmingdale NY	516-420-9800
lar Inc Irvine CA	714-951-8808
lady Co W H Industrial Prods Div	
Milwaukee WI	414-351-6630
udd Cato Assoc Inc Brielle NJ	201-528-7439
ardwell Condenser Corp Lindenhurst NY	516-957-7200
eramaseal Div Clevepak Corp	
New Lebanon Center NY	518-794-7800
leveland Mica Co Lakewood OH	216-226-1360
ncord Electronics Corp New York NY	212-777-6571
-Cemco Inc Burbank CA	213-849-6341
amonte Products Shreve OH	216-567-2145
uramic Products Inc Palisades Park NJ	201-947-8313
ectrical Industries Div Philips Elctns Inc	
Murray Hill NJ	201-464-3200
ectrical Refractories Co East Palestine OH	216-426-9433
ederal Screw Products Inc Chicago IL	312-478-5744
bre Materials Corp Plainview NY	516-349-1660
uorocarbon Chicago Div Mundelein IL	312-949-0850
lastic Co Cleveland OH	216-486-0100
ermetic Seal Corp Rosemead CA	213-283-0411
ram Jones Electronics North Hollywood CA	213-875-0213
en Industries Inc Millington NJ	201-647-2734
ternational Electronic Research Corp	
Burbank CA	213-849-2481
lantite Mfg Co Inc Stirling NJ	201-647-3333
in Hardware Mfg Co Inc	
Long Island City NY	212-361-0800
nnings Div FL Industries San Jose CA	408-292-4025
ystone Electronics Corp New York NY	212-475-4600
Jlka Smith Inc Manasquan NJ	201-223-9400
cVen Electronics Lab Red Bank NJ	201-741-1716
Idland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
ldwest Sintered Products Corp Riverdale IL	312-849-5290
onadnock Co City of Industry CA	818-964-6581
ykroy/Mycalex Clifton NJ	201-779-8866
ational Ceramic Co Trenton NJ	609-394-5373
relcom Industries Inc Farmingdale NY	516-249-7262
rtion Performance Plastics Wayne NJ	201-696-4700
lon Resdel Corp Rio Grande NJ	609-886-1111
xley Developments Co Ltd	
Ulverston Cumbria England	0229-52621
lygon Co Walkerton IN	219-586-3122
realign Products Co Carey OH	419-396-7621
emax Products Div Chisholm-Ryder Co Inc	
Niagara Falls NY	716-285-9186
CA Distr & Special Prods Div Deptford NJ	609-541-3636
chco Plastic Co Chicago IL	312-539-4060
ss Co Milton Southampton PA	215-355-0200
stone Lafayette IN	317-474-2421
electro Corp Trumbull CT	203-372-4118
ndclair & Rush Inc St Louis MO	314-481-2450
CT Technology Bensenville IL	312-766-6711
ruce Pine Mica Co Inc Spruce Pine NC	704-765-4241
affail Inc Providence RI	401-351-8282
aff Gasket Mfg Corp New York NY	212-675-4097
or Porcelain Co Trenton NJ	609-392-3154
evens Products Inc East Orange NJ	201-672-2140
eward Mfg Co D M Chattanooga TN	615-867-4100
perior Technical Ceramics Corp	
St Albans VT	802-527-7726
urus Corp Lambertville NJ	609-397-2390
Knational Industries Inc Rochester NY	716-232-1291
ormalloy Inc Dallas TX	214-243-4321
nicorp Orange NJ	201-674-1700
tilator Technical Ceramics Inc	
Los Angeles CA	213-463-5618
ECO Div Litton Systems Inc Van Nuys CA	818-786-9381
imington Fibre Specialty Co New Castle DE	302-328-7525

INSULATORS—WATER TUBE

ERAMASEAL DIV CLEVEPAK CORP	
NEW LEBANON CENTER NY	518-794-7800
berox Corp New Bedford MA	617-995-1725
eramaseal Div Clevepak Corp	
New Lebanon Center NY	518-794-7800
aff Gasket Mfg Corp New York NY	212-675-4097

INTEGRATED CIRCUITS

See ICs Listings

INTERCOMMUNICATION

SYSTEMS—WIRED, ELECTRONIC

EG CORPORATION SOMERVILLE NJ	201-722-9800
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
CI Auditor Communications Inc Ottawa ON	613-523-9933
EG Corporation Somerville NJ	201-722-9800
pton Labs Inc Bloomington IN	812-336-4775
tias Sound Div Amer Trading & Prod Corp	
Parsippany NJ	201-887-7800
gden Vox Intercom Inc Montreal PQ	514-381-2741
open Div Lear Siegler Inc Paramus NJ	201-343-5700
avid Clark Co Inc Worcester MA	617-756-6216
ommunications Equipment Co Inc	
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Interferometers

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See Connectors

INTERMETALLIC SEMICONDUCTORS

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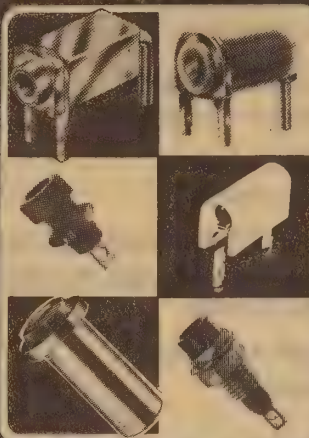
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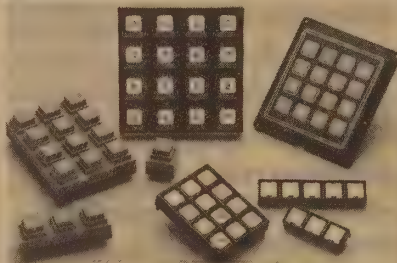
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Fujitsu really opened my eyes!



The Time: 4:40 P.M.

The Place: The Paris office of a Silicon Valley firm.

The Situation: Albert Barton, a sales representative, is in a quandary. He's gotten an order for 200 personal computers. Problem? The order is from a trade mission, and the keyboards must be equipped with keycaps in various languages and legends. Barton calls headquarters, where they're just coming to work.

At headquarters, Frank Strauss, chief purchasing agent, takes the call. Barton nervously tells him that acceptance of the order relies on the Company being able to supply the intact system, complete with peripherals, within 90 days. Strauss promises to get right back to him.

The Solution: Strauss is amused by Barton's nervousness, because he knows that Fujitsu, his keyboard supplier, can come through. A call to Fujitsu confirms it. Yes, they can supply 200 keyboards. Yes, they can manufacture

keycaps

in 14 different languages and legends for the client. Strauss calls Barton back, and Barton clinches the deal.

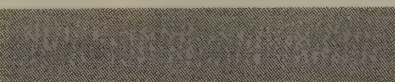
On delivery and set-up, there are *zero rejects*, thanks to 100% testing of Fujitsu products (by both the manufacturing and quality assurance departments).

The Result: Strauss lets Barton in on the "secret" of their success. Says Barton, "Fujitsu really opened my eyes!"

The Fine Print: The identities of our clients have been changed.

The Bottom Line: Dependability and 100% testing are just two facets of everything that goes into Fujitsu components. Design excellence is another. But, you'd expect that from a subsidiary of a \$5 billion worldwide manufacturer of telecommunications, computers and semiconductors. To learn more about Fujitsu components, and what they can mean to *your* products, write Fujitsu Components of America, Inc., 3320 Scott Boulevard, Santa Clara, CA 95054 or call (408) 727-1700. We'll really open your eyes, too.

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MCE Semiconductor Inc West Palm Beach FL.....	305-845-2837
Midland-Ross Corp Electronic Connector Div Cambridge MA.....	617-491-5400
3M-Electronic Products Div Austin TX.....	512-834-1800
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Robinson Nugent Inc New Albany IN.....	812-945-0211
Ross Co Milton Southampton PA.....	215-355-0200
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INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA.....	818-991-9614
Auscom a KMW Sys Co Austin TX.....	512-836-8080
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Celtic Industries Inc Van Nuys CA.....	818-787-3615
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Heath Co Benton Harbor MI.....	616-982-3200
International Instrumentation Inc Westlake Village CA.....	818-991-9614
Multitech Electronics Inc Sunnyvale CA.....	408-773-8400
Risk Industries Inc George Kimball NE.....	308-235-4645

KITS—HOME ENTERTAINMENT

ATV Research Inc Dakota City NE.....	402-987-3771
Bishop Graphics Inc Westlake Village CA.....	818-991-2600
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Projectapix II New York NY.....	212-765-7869

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OMEGA ENGINEERING INC STAMFORD CT.....	203-359-1660
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Erbtec Engineering Inc Boulder CO.....	303-447-8750
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Heath Co Benton Harbor MI.....	616-982-3200
International Instrumentation Inc Westlake Village CA.....	818-991-9614
IR Scientific Carlisle MA.....	617-667-7110
Omega Engineering Inc Stamford CT.....	203-359-1660
Sterling Instrument Div Designatronics Inc New Hyde Park NY.....	516-328-3300

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Skyway Magnetics Warner Springs CA.....	619-782-3342
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ALCO ELECTRONIC PRODUCTS INC NORTH ANDOVER MA.....	617-685-4371
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ELECTRIC SWITCHES INC LOS ANGELES CA.....	213-660-1310
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Concord Electronics Corp New York NY.....	212-777-6571
Davies Molding Co Harry Chicago IL.....	312-622-8911
Dimco-Gray Co Centerville OH.....	513-433-7611
Electric Switches Inc Los Angeles CA.....	213-660-1310
Electronic Hardware Corp Farmingdale NY.....	516-752-1911
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
Interlok Div Wm J Purdy Co Burlingame CA.....	415-348-5611
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itfab Inc Hampstead NH.....	603-329-8205
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ited States Testing Co Inc Hoboken NJ.....	201-792-2400
ing Labs/Honeywell Mountain View CA.....	415-969-5500

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AMINATIONS

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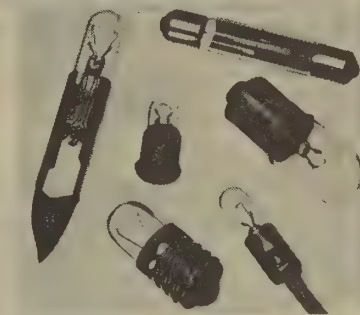
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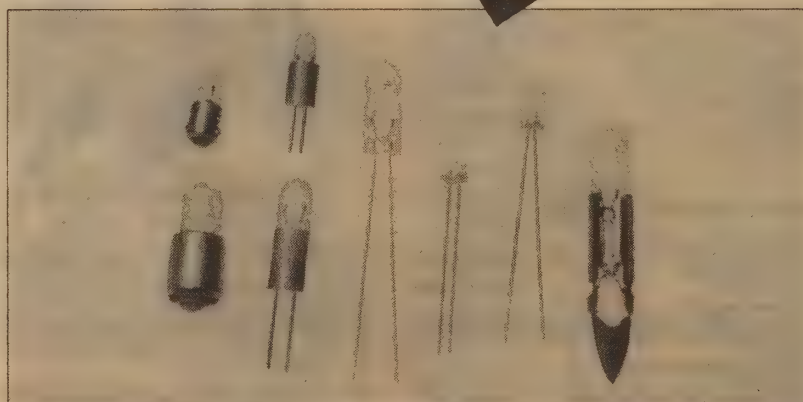
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Data Display Products Los Angeles CA	213-640-0442
Dialight Corp Brooklyn NY	718-497-7600
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Eaton Corp/MSC Products Costa Mesa CA	714-642-2427
Gates & Co Inc George W	
Franklin Square NY	516-352-2904
GC Electronics Div Household Intl	
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Glar-Ban Div Mark IV Industries	
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Grimes Div Midland Ross Corp Urbana OH	513-652-1400
GTE Lighting Products Danvers MA	617-777-1900
IEE Industrial Electronic Engineers Inc	
Van Nuys CA	818-787-0311
Imtronics Industries Ltd St Petersburg FL	813-577-9010
Industrial Devices Inc Edgewater NJ	201-224-4700
Inter-Market Inc Glenview IL	312-729-5330
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Irimes Div Midland Ross Corp Urbana OH	513-652-1431
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TE Lighting Products Danvers MA	617-777-1900
EE Industrial Electronic Engineers Inc	
Van Nuys CA	818-787-0311
International Components Corp Melville NY	516-293-1500
JKL Components Corp Pacoima CA	818-896-0019
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Lamp Technology Inc Farmingdale NY	516-454-6464
North American Philips Lighting Corp	
Bloomfield NJ	201-429-3000
Shokai Far East Ltd Hartsdale NY	914-681-0700
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Philadelphia PA	215-423-7077
Stocker & Yale Inc Beverly MA	617-927-3940
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Clean Room Products Inc Ronkonkoma NY	516-588-7000
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EG & G Inc Electro-Optics Div Salem MA	617-745-3200
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North American Philips Lighting Corp	
Bloomfield NJ	201-429-3000
OAI Santa Clara CA	408-988-6900
Physitec Corp Norfolk MA	617-528-4100
Plasmarc Technologies Inc Fairfield NJ	201-575-0870
Plastics Consulting & Mfg Co Camden NJ	609-963-7700
Polysciences Inc Warrington PA	215-343-6484
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Sargent-Welch Scientific Co Skokie IL	312-677-0600
Shannon Luminous Materials Inc	
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U S Laser Corp Wyckoff NJ	201-848-9200

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Power Technology Inc Little Rock AR	501-568-1995
RCA Government Systems Div Cherry Hill NJ	609-338-3000
Selective Electronic Inc Valdese NC	704-874-4102
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Spectron Engineering Inc Denver CO	303-623-8987
Teslis Controls Corp Chillicothe OH	614-642-3200
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RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Spectra Diode Labs Inc San Jose CA	408-946-3483
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Coherent Inc Palo Alto CA	415-493-2111
Ealing Corp South Natick MA	617-655-7000

Hughes Aircraft Co Ind Prods Div Carlsbad CA	619-931-3000
Litton Systems Inc Laser Sys Div Orlando FL	305-295-4010
Maxwell Labs Inc San Diego CA	619-279-5100
Melles Griot Irvine CA	714-556-8200
Metrologic Instruments Inc Belmawr NJ	609-933-0100
NEC Electronics Inc Mtn View CA	415-960-6000
Physitex Corp Norfolk MA	617-528-4100
RMF Products Inc Batavia IL	312-879-0020
Sanders Associates Inc Nashua NH	603-885-4321
Siemens Components Inc Iselin NJ	201-321-3400
Spectra-Physics Inc Mountain View CA	415-961-2550
U S Laser Corp Wyckoff NJ	201-848-9200

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Coherent Inc Palo Alto CA	415-493-2111
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Schaffner EMC Inc Instrument Div Union NJ	201-851-0644
Slaughter Co Ardmore OK	405-223-4773
Tektronix Inc Beaverton OR	800-547-6711
Triplet Corp/A Penril Div Bluffton OH	419-358-5015
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Biddle Instruments-Sensitek Blue Bell PA	215-646-9200
B & K Precision Products Dynascan Corp	
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California Avionics Labs Inc Palo Alto CA	415-328-7999
Cincinnati Electronics Systems Inc Loveland OH	513-831-4347
Component Mfg Svc Inc	
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Concord Electronics Corp New York NY	212-777-6571
E I L Instruments Inc Sparks MD	301-771-4800
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
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Jetronics Co Div J L Hall Co Inc	
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Jefftron Products Inc East Hanover NJ	201-887-0571
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Waseca MN	507-835-6222
Keystone Electronics Corp New York NY	212-475-4600
Kulka Smith Inc Manassas NJ	201-223-9400
Manger Electric Co Inc Stamford CT	203-348-7761

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North American Soar Corp Cherry Hill NJ	609-488-1060
Paraplegics Mfg Co Inc Bensenville IL	312-625-7740
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Racal-Dana Instruments Inc Irvine CA	714-859-8999
Sager Hingham MA	617-749-6700
Schaffner EMC Inc Instrument Div Union NJ	201-851-0644
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Hunter Products Inc Bridgewater NJ	201-526-8440
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Waltham MA	617-899-2719
Trio-Tech International Burbank CA	213-846-9200
Varian/Vacuum Products Div Lexington MA	617-861-7200

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Formulabs Industrial Inks Inc Escondido CA	800-531-9358
Magnaflux Corp Chicago IL	312-867-8000
Sherwin Inc South Gate CA	213-861-6324
Spectronics Corp Westbury NY	516-333-4840

LEAK DETECTORS—GAS LEAKAGE

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Adisitor Technology Inc Seattle WA	206-523-6468
Ansonics Inc Halfway OR	503-742-7475
Bacharach Inc Pittsburgh PA	412-963-2000
Chester Inc Santa Ana CA	714-730-9405
Devco Engineering Inc Fairfield NJ	201-228-0321
Dunegan Corp Mission Viejo CA	714-831-9131
Du Pont De Nemours & Co Inc E I Instrument Sys	
Wilmington DE	302-772-5488
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Fischer & Porter Co Westminster PA	215-674-6000
The Foxboro Co Foxboro MA	617-543-8750
Gow-Mac Instrument Co Bound Brook NJ	201-560-0600
Hewlett-Packard Palo Alto CA	415-857-8000
Himmelstein & Co S Hoffman Estates IL	312-843-3300
Hunter Products Inc Bridgewater NJ	201-526-8440
Inficon Leybold-Heraeus Inc	
East Syracuse NY	315-437-0377
Matheson Secaucus NJ	201-867-4100
M-C Products Scottsdale AZ	602-998-9577
Mine Safety Appliances Co Pittsburgh PA	412-273-5175
Physical Acoustics Corp Princeton NJ	609-452-2510
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Rexnord Gas Detection Products	
Sunnyvale CA	408-734-1221
Rexnord Inc Milwaukee WI	414-643-3000
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
Synatron Corp Parsippany NJ	201-335-6000
Teledyne Geotech Garland TX	214-271-2561
UTI Instruments Co Milpitas CA	408-945-1955

LEAK DETECTORS—RADIOACTIVE
TRACER (GENERAL PURPOSE)

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Trio-Tech International Burbank CA	213-846-9200
Varian/Vacuum Products Div Lexington MA	617-861-7200

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Hewlett-Packard Palo Alto CA	415-857-8000
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Leybold-Heraeus Technologies Inc	
San Jose CA	408-294-7759
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Dunegan Corp Mission Viejo CA	714-831-9131
Enviromarine Systems Inc Laurel MD	301-598-8833
Formulabs Industrial Inks Inc Escondido CA	800-531-9358
Gates & Co Inc George W	
Franklin Square NY	516-352-2904
Himmelstein & Co S Hoffman Estates IL	312-843-3300
Hunter Products Inc Bridgewater NJ	201-526-8440
Hyde Park Electronics Inc Dayton OH	513-435-2121
Physical Acoustics Corp Princeton NJ	609-452-2511
Ram Meter Inc Ferndale MI	313-398-6766
Spectronics Corp Westbury NY	516-333-4840

LEASED TEST EQUIPMENT

See Test Equipment Rental

LENSES

See Antenna Lenses; Microwave Lenses; Optical
Lenses; TV Lenses

LEVEL CONTROLS

See Controls

LIGHT BEAM CHOPPERS

See Choppers—Light

LIGHT-EMITTING DIODES

See Diodes

LIGHTING CONTROLS

See Controls, Photoelectric—Illumination

LIGHTNING PROTECTORS

AEG CORPORATION SOMERVILLE NJ	201-722-9800
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
ACI Audio Communications Inc Ottawa ON	613-523-9933
AEG Corporation Somerville NJ	201-722-9800
Atlantic Scientific Corp Melbourne FL	305-725-8000
Bruce Electric Equipment Corp	
Lindenhurst NY	516-226-2422
Current Technology Inc Richardson TX	214-238-5300
Dayton Granger Inc Ft Lauderdale FL	305-463-345
General Electric Semiconductor Syracuse NY	315-456-344
General Semiconductor Industries Inc	
Tempe AZ	602-968-310
Hi-Tech Components/Mitsubishi Intl	
New York NY	212-605-206
Lake Systems Corp Newton MA	617-244-688
L-Com Inc North Andover MA	617-682-6933
LEA Dynatech Inc Santa Fe Springs CA	213-944-0911
Multiplier Industries Corp Mt Vernon NY	914-699-0999
Panasonic Co Electronic Components Div	
Secaucus NJ	201-348-5200
Phonix Terminal Blocks Inc Harrisburg PA	717-944-1300
Pilgrim Electric Co Div Creek Elctns Inc	
Plainview NY	516-420-8999
PolyPhaser Corp Gardenville NY	702-782-2511
Reliance Electric Co Cleveland OH	800-245-449
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Streeter Richardson Div Grayslake IL	312-223-480
Support Systems Intl Cables & Access Div	
Richmond CA	415-234-9098

LIGHT METERS

See Meters—Light; Photometers

LIGHTNING ARRESTERS—ANTENNA &
TRANSMISSION LINE

AEG CORPORATION SOMERVILLE NJ	201-722-9800
CLARE DIV GENERAL INSTRUMENT CORP CHICAGO IL	312-262-7700
DALE ELECTRONICS INC YANKTON DIV YANKTON SD	605-665-9300
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
AEG Corporation Somerville NJ	201-722-9800
Atlantic Scientific Corp Melbourne FL	305-725-8000
Celwave R F Marlboro NJ	201-462-1881
Clare Div General Instrument Corp Chicago IL	312-262-7700
Cushcraft Corp Manchester NH	603-627-877
Dale Electronics Inc Yankton Div Yankton SD	605-665-9300
Dayton Granger Inc Ft Lauderdale FL	305-463-345
Decibel Products Inc Dallas TX	214-631-0311
EEV Inc Elmsford NY	914-592-6051
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
GTE Lighting Products Danvers MA	617-777-1900
GTE Precision Materials Danvers MA	617-777-1900

-Tech Components/Mitsubishi Intl	
New York NY	212-605-2607
Electronic Systems Div Goleta CA	805-968-3551
Dynatech Inc Santa Fe Springs CA	213-944-0916
Multiplier Industries Corp Mt Vernon NY	914-699-0990
Phaser Corp Gardnerville NV	702-782-2511
ower Integrity Corp Greensboro NC	919-379-9773
ger Hingham MA	617-749-6700
emens Components Inc Iselin NJ	201-321-3400
affili Inc Providence RI	401-351-8262
rge Electronics Inc Chicago IL	312-761-0403
VR-Rohn Peoria IL	309-697-4400
orkman Electronic Products Inc	
Sarasota FL	800-237-6666

LIGHT PENS

See Computer Light Pens

LIGHTS—INDICATOR

See Indicator Lights

LIGHTS—LAMPS

See Lamps

LIMIT STOPS—SERVO

See Servo Limit Stops

LINEAR ACCELERATORS

See Accelerators

LINEAR CIRCUITS

See Amplifiers; ICs Listings

LINE-BALANCE CONVERTERS

See Baluns

LINE CORDS

See Cord Sets; Wire—Line-Cord

LINE REPEATERS

See Repeaters

LINE—DELAY

See Delay Lines

LINE—TRANSMISSION

See Cables; Waveguide

LIQUID CRYSTAL DISPLAYS

See Display Modules

LIQUID CRYSTALS

See Chemicals—Liquid Crystal

LIQUID DIELECTRICS

See Dielectrics—Liquid

LITHIUM

See Metals—Alkaline

LITHIUM COMPOUNDS

See Chemicals—CRT Screen

LITZ WIRE

See Wire—Litz

LOAD CELLS

See Standards; Transducers—Force

LOADS—DUMMY

See Terminations

LOCAL AREA NETWORK EQUIPMENT (INCL CONTROLLERS & GATEWAYS)

See Also Cables; Connectors

INTERNATIONAL INSTRUMENTATION INC
WESTLAKE VILLAGE CA 818-991-9614

For addresses, phones & sales offices, see green pages

ADC Telecommunications Minneapolis MN	612-835-6800
American Laser Systems Inc Goleta CA	805-967-0423
Anasco Corp Wakefield MA	617-246-3300
Anritsu America Inc Oakland NJ	201-337-1111
Artec Communications Corp Worcester MA	617-752-5690
Braegen Corp Milpitas CA	408-945-1900
Bridge Communications Inc Min View CA	415-969-4400
Bristol Babcock Inc Waterbury CT	203-575-3000
C-COR Electronics Inc State College PA	814-238-2461
Century Analysis Inc Pacheco CA	415-680-7800
ComDesign Inc Goleta CA	805-964-9852
Complex Systems Inc Huntsville AL	205-830-4310
Computrol Div Kidde Automated Sys Inc	
Ridgfield CT	203-544-9371
Concord Data Systems Inc Waltham MA	617-890-1394
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Datapoint Corp San Antonio TX	512-699-7000
Develcon Electronics Inc Warminster PA	215-443-5450
Digital Equipment Corp Maynard MA	617-897-5111
Digital Microsystems Oakland CA	415-532-3686
Digital Products Inc Watertown MA	617-924-1680
Dynatech Packet Tech Alexandria VA	703-642-9391
Excelan Inc San Jose CA	408-434-2300
FiberCom Inc Roanoke VA	703-342-6700
Foundation Instruments Inc Nepean ON	613-226-4000
Gandalf Data Inc Wheeling IL	312-541-6060
General Optonics Corp Edison NJ	201-549-9000
Gerber Scientific Instrument Co	
South Windsor CT	203-644-1551
Harris Corp Farinon Div San Carlos CA	415-594-3000
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Hekimian Labs Inc Gaithersburg MD	301-840-1217
Hewlett-Packard Palo Alto CA	415-857-8000
Honeywell Inc IPC Div York PA	717-848-1151
Inconix Corp Norwell MA	617-655-1170
International Instrumentation Inc	
Westlake Village CA	818-991-9614
Micom Systems Inc Simi Valley CA	805-583-8600
Microperipheral Corp Redmond WA	206-881-7544
Molecular Computer Corp San Jose CA	408-434-8500
Mostek Corp Carrollton TX	214-466-6000
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
PC LAN Technologies Inc Minneapolis MN	612-935-7509
PlessCorp Optonics Inc Chatsworth CA	818-700-1233
Proteon Inc Natick MA	617-655-3340
Quadram Corp Norcross GA	404-923-6666
Simco/Ramic Corp Medford OR	503-776-9800
Stock Drive Products Inc Div Designtronics	
New Hyde Park NY	516-328-0200
Support Systems Intl Cables & Access Div	
Richmond CA	415-234-9090
TCL Inc Fremont CA	415-657-3800
Tele Measurements Inc Clifton NJ	201-473-8822
Teleterminal Corp Greenland NH	603-431-1200
Tienet Inc Boulder CO	303-444-2600
Versitron Div Keene Corp Washington DC	202-722-8600
Wandel & Goltermann Inc	
Research Triangle Pk NC	919-544-8450
Xerox Corp Business Sys Group	
Rochester NY	716-423-3539
Xico Inc Chatsworth CA	818-709-4403
Zendex Corp Dublin CA	415-828-3000

LOCK NUTS

See Bolts & Nuts

LOCKS—DIAL

See Dial Locks

LOCKWASHERS

See Washers

LOGGERS—DATA

See Data Acquisition & Logging Systems; Printers

LOGIC ANALYZERS

See Analyzers—Logic

LOGIC CIRCUITS

See Converters; ICs Listings; Modules;

Optoelectronic Logic

LORAN EQUIPMENT

See Antennas, Radio Communications; Receivers,

Radio Navigation; Transmitters, Radio Navigation

LOUDSPEAKERS

See Speakers

LOWERS—CHASSIS VENTILATION

Abalon Precision Mfg Corp Bronx NY	212-589-5682
Churchill Corp Melrose MA	800-225-3932
Elzee Metal Products Co Inc Brooklyn NY	718-435-6000
Hoffman Engineering Co Div Fed Cartridge Corp	
Anoka MN	612-421-2240
Midget Louver Co Norwalk CT	203-866-2342
Optima Div Scientific-Atlanta Inc Tucker GA	404-939-6340

Schroff Inc Warwick RI	401-732-3770
Scientific-Atlanta Inc Atlanta GA	404-441-4000
S K G Associates Inc Norwell MA	617-878-7250
Suckle Corp Scranton PA	717-346-3871

LUBRICANTS

GRAPHITE METALLIZING CORP	
YONKERS NY	914-968-8400
ADV PG 47	
TECKNIT CRANFORD NJ	201-272-5500
Abasco Industries Hawthorne CA	213-970-0886
Acheson Colloids Co Port Huron MI	313-984-5581
American Oil & Supply Co Newark NJ	201-589-0250
Atomergic Chemetals Corp Plainview NY	516-349-8800
Bel-Ray Co Inc Farmingdale NJ	201-938-2421
Blackburn Div FL Industries Sycamore IL	815-895-6501
Bruhl & Co Inc Indianapolis IN	800-428-7149
Chassis Trak Div General Devices Co Inc	
Indianapolis IN	317-897-7000
CRC Chemicals USA Warminster PA	215-674-4300
Crown Industrial Products Hebron IL	815-648-2424
Devcon Corp Danvers MA	617-777-1100
Dow Corning Corp Midland MI	517-496-4000
Echelon Industries Inc Walnut CA	714-594-1891
E/M Corp West Lafayette IN	317-463-2511
Fel Pro Inc Skokie IL	312-761-4500
Ferrofluidics Corp Nashua NH	603-883-9800
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
General Electric Co Silicone Prods Div	
Waterford NY	518-237-3330
Graphite Metallizing Corp Yonkers NY	914-968-8400
Holt Lloyd Corp/LPS Chemical Prods	
Tucker GA	404-934-7800
LNP Corp Malvern PA	215-644-5200
Metron Optics Inc Solana Beach CA	619-755-4477
Norton Performance Plastics Wayne NJ	201-696-4700
Nye Inc William F New Bedford MA	617-996-6721
PG Design Middlebury CT	203-758-8272
Rawin Co Inc Spooner WI	715-635-8711
Reliance Electric Co Cleveland OH	800-245-4497
Sherwin Inc South Gate CA	213-861-6324
SPC Technology Bensenville IL	312-766-6711
Sperex Corp Gardena CA	213-323-6162
Starrett Co The L S Athol MA	617-249-3551
Stock Drive Products Inc Div Designtronics	
New Hyde Park NY	516-328-0200
SWS Silicones Corp Adrian MI	517-263-5711
Synthatron Corp Parsippany NJ	201-335-5000
Technit Cranford NJ	201-272-5500

LUGS

See Terminals

LUMINOUS MARKERS

See Markers

LUMINOUS PAINTS

See Paints

MACHINE CONTROLS

See Controls Listings

MACHINE HEADS—ROTARY

See Heads

MACHINES—ABRADING & POLISHING (CRYSTAL & FERRITE)

HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
Comco Inc Burbank CA	818-841-5500
Custom Scientific Instruments Inc	
Cedar Knolls NJ	201-538-8500
Foredom Electric Co Div Blackstone Ind Inc	
Bethel CT	203-792-8622
Hunter Products Inc Bridgewater NJ	201-526-8440
K-W Mfg Co Prague OK	405-567-2286
Laser Technology Inc N Hollywood CA	818-763-7091
Mark V Lab Inc East Granby CT	203-653-7201
Speedfam Corp Des Plaines IL	312-827-8891
Teledyne Taber North Tonawanda NY	716-694-4000
Universal Photonics Inc Hicksville NY	516-935-4000
White S S Ind Prods Pennwalt Corp	
Piscataway NJ	201-752-8300

MACHINES—AUTOMATIC ASSEMBLY

AMP INCORPORATED HARRISBURG PA	717-564-0100
ENVIROMARINE SYSTEMS INC	
LAUREL MD	301-598-8833
MEA DIV UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-772-7563
TDK CORP TOKYO JAPAN	03-278-5111
UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-775-1102
Affiliated Manufacturers Inc North Branch NJ	201-722-7100
AMP Incorporated Harrisburg PA	717-564-0100
Assemblyonics Inc Brentwood NY	516-231-4440
Automated Production Concepts Inc	
Pompton Plains NJ	201-831-8300
Automation Unifid Inc Woburn MA	617-933-7288

For ADVERTISERS' CATALOGS see Directory of Catalogs (white pages)

Autosplice Inc Woodside NY	718-429-0500
Bendix Corp Fluid Power Div Utica NY	315-797-2500
Black & Webster Inc Waltham MA	617-890-9100
Broomfield Laboratories Bolton MA	617-368-0931
Cambridge Automatic Dive Eyelet Tool Co Natick MA	617-653-9002
Cencorp Sub Dover Technology Inc Boulder CO	303-665-4204
Computer Numerical Control Corp Woburn MA	617-933-0091
Control Technology Corp Hopkinton MA	617-435-9595
Design Technology Corp Billerica MA	617-663-7000
Die-Tech Inc York Haven PA	717-938-6771
Donovan Industries Scotia NY	518-346-3489
DuPont Connector Systems Camp Hill PA	717-975-2000
Emhart Fasteners Grip Pop Fasteners Div Shelton CT	203-735-9341
Enviromarine Systems Inc Laurel MD	301-598-8833
Everett/Charles Test Equipment Inc Pomona CA	714-621-9511
Eyelet Tool Co Natick MA	617-653-9002
Fancort Industries Inc West Caldwell NJ	201-575-0610
Foredom Electric Co Div Blackstone Ind Inc Bethel CT	203-792-8622
Gardiner Solder Co Chicago IL	312-847-0100
High Speed Hammer Co Inc Rochester NY	716-266-6740
Icon Corp Cambridge MA	617-868-5400
Kahle Engineering Co Union City NJ	201-867-6500
Kinematrix Inc Concord NH	603-224-6583
Kras Corp Fairless Hills PA	215-736-0981
Laurier Associates Inc Hudson NH	603-889-8800
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Maxwell Labs Inc San Diego CA	619-279-5100
MEA Div Universal Instruments Corp Binghamton NY	607-772-7563
Mid-West Automation Systems Inc Wheeling IL	312-541-3570
Milford Rivet & Machine Co Milford CT	203-878-4631
Molex Inc Lisle IL	708-299-4550
MTI Corp Iyland PA	215-355-3110
Orthodyne Electronics Corp Costa Mesa CA	714-631-7800
Penn Engineering & Mfg Corp Danboro PA	215-786-8853
PHI Conrac Machine Tool Westminster CA	714-894-4711
Sankyo Seiki Mfg Co Ltd Tokyo Japan	03-508-1157
Segal Inc Edward Thomaston CT	203-283-5821
Sjoberg & Son Inc Cranston RI	401-461-8220
Solatron Enterprises Inglewood CA	213-678-4981
Sparton Technology Inc Rio Rancho NM	505-892-5300
Taylor-Winfield Corp Warren OH	216-399-8861
TDK Corp Tokyo Japan	03-278-5111
Teledyne TAC Woburn MA	617-935-5400
Tridak Div Indicon Inc Brookfield CT	203-775-1287
Twin Rivers Engineering Inc E Boothbay ME	207-633-2975
Unimation Inc Danbury CT	203-744-1800
Universal Instruments Corp Binghamton NY	607-775-1102
VIP Industries Inc Paterson NJ	201-345-5800
Weiss-Aug Co Inc East Hanover NJ	201-887-7600

MACHINES—AUTOMATIC FEED, SMALL PARTS

MEA DIV UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY	607-772-7563
UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY	607-775-1102
Affiliated Manufacturers Inc North Branch NJ	201-722-7100
Automated Production Concepts Inc Pompton Plains NJ	201-831-8300
Automation Devices Inc Fairview PA	814-474-5561
Black & Webster Inc Waltham MA	617-890-9100
Budd Gato Assoc Inc Brielle NJ	201-528-7439
Cambridge Automatic Dive Eyelet Tool Co Natick MA	617-653-9002
Design Technology Corp Billerica MA	617-663-7000
Donovan Industries Scotia NY	518-346-3489
Everett/Charles Test Equipment Inc Pomona CA	714-621-9511
Eyelet Tool Co Natick MA	617-653-9002
High Speed Hammer Co Inc Rochester NY	716-266-6740
IC Probotics Inc Longwood FL	305-339-8298
Kras Corp Fairless Hills PA	215-736-0981
Laurier Associates Inc Hudson NH	603-889-8800
Henry Mann Inc Huntingdon Valley PA	215-355-7200
MEA Div Universal Instruments Corp Binghamton NY	607-772-7563
Mid-West Automation Systems Inc Wheeling IL	312-541-3570
MTI Corp Iyland PA	215-355-3110
Sciaky Bros Inc Chicago IL	312-594-3800
Segal Inc Edward Thomaston CT	203-283-5821
Sjoberg & Son Inc Cranston RI	401-461-8220
Sparton Technology Inc Rio Rancho NM	505-892-5300
Teledyne TAC Woburn MA	617-935-5400
Trigon Industries Inc Milpitas CA	408-943-8200
Trio-Tech International Burbank CA	213-846-9200
Twin Rivers Engineering Inc E Boothbay ME	207-633-2975
Unimation Inc Danbury CT	203-744-1800
Universal Instruments Corp Binghamton NY	607-775-1102
Weiss-Aug Co Inc East Hanover NJ	201-887-7600

MACHINES—BALANCING, DYNAMIC

Annis Co R B Indianapolis IN	317-637-9282
Balance Technology Inc Ann Arbor MI	313-769-2100
Chadwick Helmutz Co Inc El Monte CA	213-575-6161
Coherent General Sturbridge MA	617-347-2681
Coherent Inc Palo Alto CA	415-493-2111
IRD Mechanalysis Inc Columbus OH	614-885-5376
Mechanical Technology Inc Latham NY	518-785-2211
Schenck Trebel Corp Deer Park NY	516-242-4010
U S Laser Corp Wyckoff NJ	201-848-9200

MACHINES—BENDING

HUNTER PRODUCTS INC BRIDGEWATER NJ	201-526-8440
MARK EYELET INC SUB AMP INC WOLCOTT CT	203-756-8847
Autosplice Inc Woodside NY	718-429-0500
Eraser Co Inc The Syracuse NY	315-454-3237
Heller Industries Inc Florham Park NJ	201-377-6800
Hunter Products Inc Bridgewater NJ	201-526-8440
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Mark Eyelet Inc Sub AMP Inc Wolcott CT	203-756-8847
Niagara Machine & Tool Works Buffalo NY	716-893-4070
PHI Conrac Machine Tool Westminster CA	714-894-4711
Roper Whitney Co Rockford IL	815-962-3011
Simonds Inc Southbridge MA	617-764-3235
Sjoberg & Son Inc Cranston RI	401-461-8220
Strippit Akron NY	716-542-4511
Taylor-Winfield Corp Warren OH	216-399-8861

MACHINES—BLUEPRINT

See Machines—Copying

MACHINES—CAPACITOR MANUFACTURING, ASSEMBLY

Advantek Inc Minneapolis MN	612-944-7654
Coherent General Sturbridge MA	617-347-2681
Comco Inc Burbank CA	818-841-5500
Design Technology Corp Billerica MA	617-663-7000
High Speed Hammer Co Inc Rochester NY	716-266-6740
Hilton Industries Inc Sarasota FL	813-371-2600
Kahle Engineering Co Union City NJ	201-867-6500
Kinematrix Inc Concord NH	603-224-6583
MTI Corp Iyland PA	215-355-3110
Sparton Technology Inc Rio Rancho NM	505-892-5300
Tam Ceramics Inc Niagara Falls NY	716-278-9400
Unitek Corp Indus Equip Oper Monrovia CA	818-574-7800

MACHINES—CAPACITOR MANUFACTURING, SORTING

INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA	818-991-9614
Advantek Inc Minneapolis MN	612-944-7654
Affiliated Manufacturers Inc North Branch NJ	201-722-7100
Automated Production Concepts Inc Pompton Plains NJ	201-831-8300
Comco Inc Burbank CA	818-841-5500
Daymarc Corp Waltham MA	617-890-2345
Design Technology Corp Billerica MA	617-663-7000
Gen Rad Inc Waltham MA	617-369-4400
Intelligent Controls Inc Saco ME	207-283-0156
International Instrumentation Inc Westlake Village CA	818-991-9614
MTI Corp Iyland PA	215-355-3110
Trigon Industries Inc Milpitas CA	408-943-8200

MACHINES—CAPACITOR MANUFACTURING, WINDING

Advantek Inc Minneapolis MN	612-944-7654
Design Technology Corp Billerica MA	617-663-7000
Hilton Industries Inc Sarasota FL	813-371-2600
Sparton Technology Inc Rio Rancho NM	505-892-5300

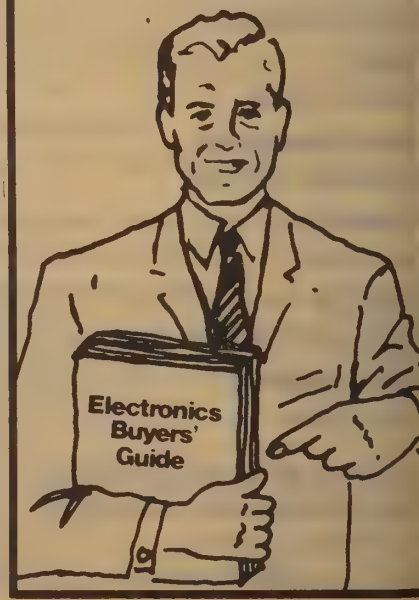
MACHINES—CLEANING

See Also Ultrasonic Equipment

Baron-Blakeslee Inc Sub Purex Ind Inc Melrose Park IL	312-450-3900
Barrett Centrifugals Worcester MA	617-755-4306
Branson Cleaning Equipment Co Shelton CT	203-929-7301
Chemcut Corp State College PA	814-238-0514
Cobehn Inc Fairfield NJ	201-227-6675
Comco Inc Burbank CA	818-841-5500
Computer-Link Corp Wilmington MA	617-657-8820
Cyclo-Tronics Inc Wauconda IL	312-526-0800
Electronic Controls Design Inc Mulino OR	503-829-9108
Engineered Technical Products Inc Somerville NJ	201-725-0330
Eraser Co Inc The Syracuse NY	315-454-3237
FSI Corp Chaska MN	612-448-5440
Fuller Brush Co Machine Div South Windsor CT	800-243-2884
Gardiner Solder Co Chicago IL	312-847-0100
Headway Research Inc Garland TX	214-272-5431
Heat Systems-Ultrasonics Inc Farmingdale NY	516-694-9555
Holt Lloyd Corp/LPS Chemical Prods Tucker GA	404-934-7800
Interlab Inc Danbury CT	203-748-5624
L & R Mfg Co Kearny NJ	201-991-5330
Machine Technology Inc Parsippany NJ	201-386-0600
Henry Mann Inc Huntingdon Valley PA	215-355-7200
MDC Industries Inc Philadelphia PA	215-426-5925
Odell Co M P Hoffman Estates IL	312-991-2828
Phillips Mfg Co Chicago IL	312-338-6200
Serfilco Ltd Glenview IL	312-998-9300
Solid State Equipment Corp Fort Washington PA	215-643-7900
Sparton Technology Inc Rio Rancho NM	505-892-5300
Vapor Blast Mfg Co Milwaukee WI	414-871-6500
Weneco Inc Chicago IL	312-973-4430

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telephone
numbers,
names of person
to contact,
numbers of
engineers,
employees and
sales volume,
sales offices and
distributors!



MACHINES—COIL WINDING, LATHE TYPE

COIL WINDING EQUIPMENT CO INC OYSTER BAY NY ADV PG 243	516-922-5660
JORMAN MACHINE CORP BROCKTON MA ADV PG 243	617-588-2900
Imaccoil Machinery Inc New Rochelle NY	914-235-5050
Jroomfield Laboratories Bolton MA	617-368-0931
Coil Winding Equipment Co Inc	
Oyster Bay NY	516-922-5660
Jesign Technology Corp Billerica MA	617-663-7000
Jreisilker Electric Motors Inc Glen Ellyn IL	312-469-7510
Jsex Group/IWI Ft Wayne IN	219-461-4000
Jorman Machine Corp Brockton MA	617-588-2900
Jnes Instrument Co Pasadena CA	818-796-3288
Jnematrix Inc Concord NH	603-224-6583
Jtea Magnet Wire Co Inc Fort Wayne IN	219-424-4252
Jtation Enterprises Ingewood CA	213-678-4981
Jniversal Mfg Co Inc Irvington NJ	201-374-9800

MACHINES—COIL WINDING, TOROID TYPE

COIL WINDING EQUIPMENT CO INC OYSTER BAY NY ADV PG 243	516-922-5660
JORMAN MACHINE CORP BROCKTON MA ADV PG 243	617-588-2900
Imaccoil Machinery Inc New Rochelle NY	914-235-5050
Coil Winding Equipment Co Inc	
Oyster Bay NY	516-922-5660
Jsex Group/IWI Ft Wayne IN	219-461-4000
Jorman Machine Corp Brockton MA	617-588-2900
Jnematrix Inc Concord NH	603-224-6583
Jniversal Mfg Co Inc Irvington NJ	201-374-9800

MACHINES—COIL WINDING, WOUND FOIL

COIL WINDING EQUIPMENT CO INC OYSTER BAY NY ADV PG 243	516-922-5660
Imaccoil Machinery Inc New Rochelle NY	914-235-5050
Coil Winding Equipment Co Inc	
Oyster Bay NY	516-922-5660
Jlton Industries Inc Sarasota FL	813-371-2600
Jniversal Mfg Co Inc Irvington NJ	201-374-9800

MACHINES—COMPONENT PACKAGING

EA DIV UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY	607-772-7563
RESEARCH INSTRUMENT CO INC SOUTH WINDSOR CT	203-528-9625
UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY	607-775-1102
Jdvantek Inc Minneapolis MN	612-944-7654
Jssociate General Labs Inc Brookfield IL	312-485-1135
Jutomation Unltd Inc Woburn MA	617-933-7288
Jesign Technology Corp Billerica MA	617-663-7000
EA Div Universal Instruments Corp Binghamton NY	607-772-7563
JTI Corp Ivyland PA	215-355-3110
Jew Jersey Machine Inc Fairfield NJ	201-227-8300
Jresearch Instrument Co Inc South Windsor CT	203-528-9625
Jolid State Equipment Corp Fort Washington PA	215-643-7900
Jniversal Instruments Corp Binghamton NY	607-775-1102

MACHINES—COPYING

ANON USA INC ELECTRONIC COMPONENTS DIV LAKE SUCCESS NY	516-488-6700
Jlu-Ray Inc Essex CT	203-767-0141
Janon USA Inc Copier Div Lake Success NY	516-488-6700
Janon USA Inc Electronic Components Div Lake Success NY	516-488-6700
Jietzgen Corp Des Plaines IL	312-635-5200
Jastman Kodak Co Rochester NY	716-724-4000
Jledyne Rotolite Warren NJ	201-647-1040
Jerox Corp Business Sys Group Rochester NY	716-423-3539

MACHINES—CRYSTAL-CUTTING

MICROMECH MFG CORP ROSELLE NJ ADV PG 246	201-245-0505
Jlvord Systems Inc Clairton PA	412-233-3910
Jaser Technology Inc N Hollywood CA	818-763-7091
Jmicromech Mfg Corp Roselle NJ	201-245-0505
J S Laser Corp Wyckoff NJ	201-848-9200

MACHINES—CRYSTAL-FINISHING

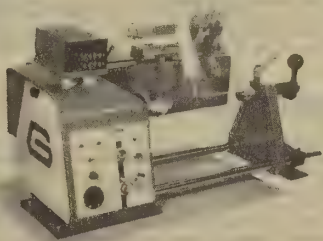
Jlvord Systems Inc Clairton PA	412-233-3910
Joffman Co P R Carlisle PA	717-243-2011
J & R Mfg Co Kearny NJ	201-991-5330
Jpeedfam Corp Des Plaines IL	312-827-8891
Jniversal Photonics Inc Hicksville NY	516-935-4000

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7 BURKE DRIVE
BROCKTON, MA 02401
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The BOBBINEER is a versatile machine which handles heavy and fine wires with ease through its four speed ranges. Two separately adjustable wire traverse speeds is standard. 3/4 HP DC motor. Forms to 9" Dia. can be handled. No gears to change. Quiet running. Excellent layering of wire.

MACHINES—CRYSTAL GROWING

RESEARCH INSTRUMENT CO INC SOUTH WINDSOR CT	203-528-9625
Crystal Specialties Inc Portland OR	503-684-0470
Jeybold-Heraeus Technologies Inc San Jose CA	408-294-7759
Jaterials Research Corp Orangeburg NY	516-588-7000
Jresearch Instrument Co Inc South Windsor CT	203-528-9625

MACHINES—DEGREASING VAPOR

Automated Production Concepts Inc Pompton Plains NJ	201-631-8300
Jaron-Blakeslee Inc Sub Pures Ind Inc Melrose Park IL	312-450-3900
Jranson Cleaning Equipment Co Shelton CT	203-929-7301
Jlean Room Products Inc Ronkonkoma NY	516-588-7000
JNI Inc Orefield PA	215-395-6444
Jcorpene Industries Inc Louisville KY	502-491-4433
Jcyclo-Tronics Inc Wauconda IL	312-526-0800

Jardiner Solder Co Chicago IL	312-847-0100
Jeadway Research Inc Garland TX	214-272-5431
Jeat Systems-Ultrasonics Inc Farmingdale NY	516-694-9555
Jollis Automation Inc Nashua NH	603-889-1121
Jinterlab Inc Danbury CT	203-748-5624
Jewis Corp Oxford CT	203-264-3100
Jhillips Mfg Co Chicago IL	312-338-6200
Jho-Chem Corp Ingewood CA	213-776-6233
Jserfilco Ltd Glenview IL	312-998-9300
Jspartan Technology Inc Rio Rancho NM	505-892-5300
Jenesco Inc Chicago IL	312-973-4430
Jestinghouse Elec Corp Industrial Equip Div Sykesville MD	301-795-2800

MACHINES—DIODE & TRANSISTOR MANUFACTURING

See Machines, Semiconductor Production

MACHINES—DRILLING, ULTRASONIC

See Ultrasonic Equipment

MACHINES—DRILL PRESSES PRECISION

Jaremco Products Inc Ossining NY	914-762-0685
Joston Digital Corp Milford MA	617-473-4561
Jcomputer Numerical Control Corp Woburn MA	617-933-0091
Jcotronics Corp Brooklyn NY	718-646-7996
Jhigh Speed Hammer Co Inc Rochester NY	716-266-6740
Jhenry Mann Inc Huntingdon Valley PA	215-255-7200
Jspartan Technology Inc Rio Rancho NM	505-892-5300
Jtam Ceramics Inc Niagara Falls NY	716-278-9400

MACHINES—DROP TEST

Jcustom Scientific Instruments Inc Cedar Knolls NJ	201-538-8500
Jlarsen Aero Development Martinez CA	415-228-7870
Jtinus Olsen Testing Machine Co Willow Grove PA	215-675-7100

MACHINES—ENCAPSULATING

RESEARCH INSTRUMENT CO INC SOUTH WINDSOR CT	203-528-9625
Jadvantek Inc Minneapolis MN	612-944-7654
Jaremco Products Inc Ossining NY	914-762-0685
Jassemblyonics Inc Brentwood NY	516-231-4440
Jchem-Mixx Corp Medford MA	617-395-7270
Jconforming Matrix Corp Toledo OH	419-729-3777
Jefd Inc East Providence RI	401-434-1680
Jfishman Corp Philip Holliston MA	617-429-2050
Jgluco Inc Pittsburgh PA	412-327-7575
Jhardman Incorporated Belleville NJ	201-751-3000
Jhali Corp Hatboro PA	215-672-7800
Jkahle Engineering Co Union City NJ	201-867-6500
Jkras Corp Fairless Hills PA	215-736-0981
Jlaurier Associates Inc Hudson NH	603-889-8800
JMTI Corp Ivyland PA	215-355-3110
JResearch Instrument Co Inc South Windsor CT	203-528-9625
Jross Co Milton Southampton PA	215-355-0200
Jtechon Systems Inc Carson CA	213-603-8888
Jtridrak Div Indicon Inc Brookfield CT	203-775-1287
Jtwin Rivers Engineering Inc E Boothbay ME	207-633-2975
Jwabash Metal Products Inc Wabash IN	219-563-1184

MACHINES—ENGRAVING & PROFILING

Jbell Co Inc Trussville AL	205-655-2135
Joston Digital Corp Milford MA	617-473-4561
Jcoherent Inc Palo Alto CA	415-493-2111
J S Laser Corp Wyckoff NJ	201-848-9200

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203-528-9625

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MACHINES—EYELET INSTALLING

INTERNATIONAL EYELETS INC	
GOLETA CA	805-968-7017
ADV PG 178	
MARK EYELET INC SUB AMP INC	
WOLCOTT CT	203-756-8847
Automated Production Concepts Inc	
Pompton Plains NJ	201-831-8300
Autosplice Inc Woodside NY	718-429-0500
Black & Webster Inc Waltham MA	617-890-9100
Cambridge Automatic Div Eyelet Tool Co	
Natick MA	617-653-9002
DuPont Connector Systems Camp Hill PA	717-975-2000
Emhart Fasteners Grp Pop Fasteners Div	
Shelton CT	203-735-9341
Eyelet Tool Co Natick MA	617-653-9002
High Speed Hammer Co Inc Rochester NY	716-266-6740
International Eyelets Inc Goleta CA	805-968-7017
Mark Eyelet Inc Sub AMP Inc Wolcott CT	203-756-8847
Pace Inc Laurel MD	301-490-9860
Segal Inc Edward Thomaston CT	203-283-5821
Simonds Inc Southbridge MA	617-764-3235
Sparton Technology Inc Rio Rancho NM	505-892-5300
Stimpson Co Inc Bayport NY	516-472-2000
Unimation Inc Danbury CT	203-744-1800

MACHINES—FORMING

MARK EYELET INC SUB AMP INC	
WOLCOTT CT	203-756-8847
Autosplice Inc Woodside NY	718-429-0500
Eraser Co Inc The Syracuse NY	315-454-3237
Heller Industries Inc Florham Park NJ	201-377-6800
Kras Corp Fairless Hills PA	215-736-0981
Mark Eyelet Inc Sub AMP Inc Wolcott CT	203-756-8847
Maxwell Labs Inc San Diego CA	619-279-5100
MTI Corp Ivyland PA	215-355-3110
Niagara Machine & Tool Works Buffalo NY	716-893-4070
PHI Conrac Machine Tool Westminster CA	714-894-4711
Roper Whitney Co Rockford IL	815-962-3011
Simonds Inc Southbridge MA	617-764-3235
Sjoberg & Son Inc Cranston RI	401-461-8222
Strippit Akron NY	716-542-4511
Taylor-Winfield Corp Warren OH	216-399-8861

MACHINES—GLASS-WORKING

RESEARCH INSTRUMENT CO INC	
SOUTH WINDSOR CT	203-528-9625
Kahle Engineering Co Union City NJ	201-867-6500
Research Instrument Co Inc	
South Windsor CT	203-528-9625

Speedfam Corp Des Plaines IL	312-827-8891
Universal Photonics Inc Hicksville NY	516-935-4000

MACHINES—HERMETIC-SEALING

RESEARCH INSTRUMENT CO INC	
SOUTH WINDSOR CT	203-528-9625
ADV PG 244	
Associate General Labs Inc Brookfield IL	312-485-1135
Coherent General Sturbridge MA	617-347-2681
Coherent Inc Palo Alto CA	415-493-2111
Kahle Engineering Co Union City NJ	201-867-6500
Laurier Associates Inc Hudson NH	603-889-8800
Lepel Corp Maspeth NY	212-426-4580
Maxwell Labs Inc San Diego CA	619-279-5100
Research Instrument Co Inc	
South Windsor CT	203-528-9625
Silver & Assoc G H Newtonville MA	617-965-1636
Solid State Equipment Corp	
Fort Washington PA	215-643-7900
Sonobond Ultrasonics Inc West Chester PA	215-696-4710
U S Laser Corp Wyckoff NJ	201-848-9200

MACHINES—HOT STAMPING

Ackerman Gould Co Inc Bohemia NY	516-589-2000
Acromark Co Inc The Berkeley Heights NJ	201-464-6474
Apex Machine Co Fort Lauderdale FL	305-566-1572
Brady Co W H Industrial Prods Div	
Milwaukee WI	414-351-6630
Design Technology Corp Billerica MA	617-663-7000
Markem Corp Keene NH	603-352-1130
Sossner Steel Stamps Inc	
Long Island City NY	718-361-1311

MACHINES—IMPREGNATING

Beach-Russ Co Brooklyn NY	212-388-4090
Dreisilker Electric Motors Inc Glen Ellyn IL	312-469-7510
Epoxylite Corp Anaheim CA	714-630-7910
General Engineering USA Ltd	
South Windsor CT	203-528-4474
Hardman Incorporated Belleville NJ	201-751-3000
High Vacuum Equipment Corp Hingham MA	617-749-9000
Hull Corp Hatboro PA	215-672-7800

MACHINES—LASER MACHINING & TRIMMING

See Laser Machining & Trimming Systems

MACHINES—LEAD CUTTING & FORMING

AMP INCORPORATED HARRISBURG PA	717-564-0100
HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
Adcotech Corp Milpitas CA	408-943-9430
Advantek Inc Minneapolis MN	612-944-7654
AMP Incorporated Harrisburg PA	717-564-0100
Ark-Les Corp Watertown MA	617-924-2330
Artos Engineering Co New Berlin WI	414-782-3300
Automated Production Concepts Inc	
Pompton Plains NJ	201-831-8300
Autosplice Inc Woodside NY	718-429-0500
Burndy Corp Norwalk CT	203-838-4444
Design Technology Corp Billerica MA	617-663-7000
Die-Tech Inc York Haven PA	717-938-6771
D-Vel Research Labs Inc Williamsburg NM	505-894-6500
Electronic Tool Inc Inc Pleasantville NY	914-769-8070
Eraser Co Inc The Syracuse NY	315-454-3237
Fancort Industries Inc West Caldwell NJ	201-575-0610
Heller Industries Inc Florham Park NJ	201-377-6800
Hollis Automation Inc Nashua NH	603-889-1121
Hunter Products Inc Bridgewater NJ	201-526-8440
Kras Corp Fairless Hills PA	215-736-0981
Henry Mann Inc Huntingdon Valley PA	215-355-7200
MTI Corp Ivyland PA	215-355-3110
Ragen Corp North Arlington NJ	201-997-1000
Simonds Inc Southbridge MA	617-764-3235
Technical Devices Co Torrance CA	213-618-8437

MACHINES—MARKING & NUMBERING

ALLEN AVIONICS INC DIV A K ALLEN CO INC	
MINOE LA	516-248-8080
Ackerman Gould Co Inc Bohemia NY	516-589-2000
Acromark Co Inc The Berkeley Heights NJ	201-464-6474
Adcotech Corp Milpitas CA	408-943-9430
Allen Avionics Inc Div A K Allen Co Inc	
Minoe LA	516-248-8080
Apex Machine Co Fort Lauderdale FL	305-566-1572
Assemblyonics Inc Brentwood NY	516-231-4440
Autosplice Inc Woodside NY	718-429-0500
Black & Webster Inc Waltham MA	617-890-9100
Brady Co W H Industrial Prods Div	
Milwaukee WI	414-351-6630
Coherent Inc Palo Alto CA	415-493-2111
Design Technology Corp Billerica MA	617-663-7000
Eastern Marking Machines Hempstead NY	516-483-7070
Formulas Industrial Inks Inc Escondido CA	800-531-9358
General Laser Inc Scottsdale AZ	602-991-0674
Lunomics Inc Kanata Ont PA	613-592-1460
Markem Corp Keene NH	603-352-1130
Martindale Electric Co Cleveland OH	216-521-8567
MTI Corp Ivyland PA	215-355-3110
New Jersey Machine Inc Fairfield NJ	201-227-8100

PHI Conrac Machine Tool Westminster CA	714-894-4711
Programmable Devices Inc Woburn MA	617-935-953
Quattrad Corp Torrance CA	213-538-980
Remtek Corp Fremont CA	415-490-399
Sossner Steel Stamps Inc	
Long Island City NY	718-361-1311
Telesis Controls Corp Chillicothe OH	614-642-320
U S Laser Corp Wyckoff NJ	201-848-920

MACHINES—MECHANICAL TOOLS**See Tools****MACHINES—MEMORY-CORE HANDLING**

Design Technology Corp Billerica MA	617-663-7000
Orbit Industries Div Countis Industries	
Carson City NV	702-882-612

MACHINES—METAL-FORMING PRESSES

Associate General Labs Inc Brookfield IL	312-485-1135
Autosplice Inc Woodside NY	718-429-0500
MTI Corp Ivyland PA	215-355-3111
Niagara Machine & Tool Works Buffalo NY	716-893-4070
Roper Whitney Co Rockford IL	815-962-3011
Sjoberg & Son Inc Cranston RI	401-461-8222
Sparton Technology Inc Rio Rancho NM	505-892-5300
Strippit Akron NY	716-542-4511
Taylor-Winfield Corp Warren OH	216-399-8861
Teledyne Taber North Tonawanda NY	716-694-4000

MACHINES—METALIZING (EXCEPT VACUUM)

Engineered Technical Products Inc	
Somerville NJ	201-725-0300
H B S Equipment Corp Los Angeles CA	213-726-3000
Metaplast Electrochemicals Corp Bronx NY	212-328-2444
Sifco Selective Plating Div Sifco Ind Inc	
Cleveland OH	216-524-0000

MACHINES—METAL PUNCH PRESSES

Niagara Machine & Tool Works Buffalo NY	716-893-4070
Roper Whitney Co Rockford IL	815-962-3011
Strippit Akron NY	716-542-4511
Taylor-Winfield Corp Warren OH	216-399-8861
Teledyne Taber North Tonawanda NY	716-694-4000

MACHINES—PACKAGING

RESEARCH INSTRUMENT CO INC	
SOUTH WINDSOR CT	203-528-9625
Autosplice Inc Woodside NY	718-429-0500
Bostitch Div Textron Inc East Greenwich RI	401-884-2500
BTU Engineering Corp North Billerica MA	617-667-4100
Design Technology Corp Billerica MA	617-663-7000
Enrich Intl Div All Pkg Machy & Supplies Corp	
Ronkonkoma NY	718-895-5800
Kras Corp Fairless Hills PA	215-736-0981
MTI Corp Ivyland PA	215-355-3111
New Jersey Machine Inc Fairfield NJ	201-227-8300
Research Instrument Co Inc	
South Windsor CT	203-528-9625
Sankyo Seiki Mfg Co Ltd Tokyo Japan	03-508-1100
Solid State Equipment Corp	
Fort Washington PA	215-643-7900
Unimation Inc Danbury CT	203-744-1800
West Coast Plastics Equipment Inc	
Culver City CA	213-870-7700

MACHINES—PHOTOMASKING

See Photomask Listings; Photoresist Listings

MACHINES—PICK & PLACE

Affiliated Manufacturers Inc North Branch NJ	201-722-7100
Automation Unit Inc Woburn MA	617-933-7200
Black & Webster Inc Waltham MA	617-890-9100
Laurier Associates Inc Hudson NH	603-889-8800
Micro Component Technology Inc St Paul MN	612-482-5100
SMD Technology Center Milwaukee WI	414-228-7600

MACHINES—PRINTED CIRCUIT PRODUCTION, CLEANING EQUIPMENT

MEA DIV UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-772-7500
OLIN HUNT SPECIALTY PRODUCTS INC	
WEST PATERSON NJ	201-977-6000
UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-775-1100
Baron-Blakeslee Inc Sub Purex Ind Inc	
Melrose Park IL	312-450-3900

ranson Cleaning Equipment Co Shelton CT.....	203-929-7301
hemcut Corp State College PA.....	814-238-0514
omco Inc Burbank CA.....	818-841-5500
onforming Matrix Corp Toledo OH.....	419-729-3777
orpene Industries Inc Louisville KY.....	502-491-4433
yolo-Tronics Inc Wauconda IL.....	312-526-0800
EA Equipment Div ASI Tempe AZ.....	602-967-8818
lectronic Controls Design Inc Mulino OR.....	503-829-9108
aser Co Inc The Syracuse NY.....	315-454-3237
ichromatic Inc Waltham MA.....	617-893-2020
iller Brush Co Machine Div.....	
South Windsor CT.....	800-243-2884
rdiner Solder Co Chicago IL.....	312-847-0100
olis Automation Inc Nashua NH.....	603-889-1121
terlab Inc Danbury CT.....	203-748-5624
& R Mfg Co Kearny NJ.....	201-991-5330
erry Mann Inc Huntingdon Valley PA.....	215-355-7200
EA Div Universal Instruments Corp.....	
Binghamton NY.....	607-772-7563
fin Hunt Specialty Products Inc.....	
West Paterson NJ.....	201-977-6000
hillips Mfg Co Chicago IL.....	312-338-6200
hipley Co Inc Newton MA.....	617-969-5500
mco Co Inc Hatfield PA.....	215-822-2171
parton Technology Inc Rio Rancho NM.....	505-892-5300
niversal Instruments Corp Binghamton NY.....	607-775-1102
apor Blast Mfg Co Milwaukee WI.....	414-871-6500
enesco Inc Chicago IL.....	312-973-4430

MACHINES—PRINTED CIRCUIT PRODUCTION, COMPONENT INSERTING EQUIPMENT

EA DIV UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY.....	607-772-7563
DK CORP TOKYO JAPAN.....	03-278-5111
NIVERSAL INSTRUMENTS CORP BINGHAMTON NY.....	607-775-1102
gpat Inc Attleboro MA.....	617-222-2202
otomated Production Concepts Inc.....	
Pompton Plains NJ.....	201-831-8300
otomation Unltd Inc Woburn MA.....	617-933-7288
tosplace Inc Woodside NY.....	718-429-0500
ack & Webster Inc Waltham MA.....	617-890-9100
ambridge Automatic Div Eyelet Tool Co Natick MA.....	617-653-9002
ncorp Sub Dover Technology Inc.....	
Boulder CO.....	303-666-4204
ntact Systems Inc Danbury CT.....	203-743-3837
esign Technology Corp Billerica MA.....	617-663-7000
etlet Tool Co Natick MA.....	617-653-9002
erry Mann Inc Huntingdon Valley PA.....	215-355-7200
EA Div Universal Instruments Corp.....	
Binghamton NY.....	607-772-7563
TI Corp Ivyland PA.....	215-355-3110
ce Inc Laurel MD.....	301-490-9860
agen Corp North Arlington NJ.....	201-997-1000
arton Technology Inc Rio Rancho NM.....	505-892-5300
JK Corp Tokyo Japan.....	03-278-5111
imation Inc Danbury CT.....	203-744-1800
niversal Instruments Corp Binghamton NY.....	607-775-1102

MACHINES—PRINTED CIRCUIT PRODUCTION, DRILLING EQUIPMENT

otomation Unltd Inc Woburn MA.....	617-933-7288
oston Digital Corp Milford MA.....	617-473-4561
ncorp Sub Dover Technology Inc.....	
Boulder CO.....	303-666-4204
herent General Sturbridge MA.....	617-347-2681
herent Inc Palo Alto CA.....	415-493-2111
omputer Numerical Control Corp Woburn MA.....	617-933-0091
AC (Development Assocs Controls) Carpinteria CA.....	805-684-8307
ectronic Trend Products Cupertino CA.....	408-996-7401
redom Electric Co Div Blackstone Ind Inc Bethel CT.....	203-792-8622
gh Speed Hammer Co Inc Rochester NY.....	716-266-6740
erry Mann Inc Huntingdon Valley PA.....	215-355-7200
orthern Automatic Assembly Inc.....	
Shoreview MN.....	612-481-0022
arton Technology Inc Rio Rancho NM.....	505-892-5300
ooker & Yale Inc Beverly MA.....	617-927-3940
S Laser Corp Wyckoff NJ.....	201-848-9200
ire Graphics Inc Farmingdale NY.....	516-293-1525
lgar Inc Cleveland OH.....	216-731-0500

MACHINES—PRINTED CIRCUIT PRODUCTION, ETCHING EQUIPMENT

EPRO CIRCUIT SYSTEMS INC FENTON MO.....	314-343-1630
ADV PG 360	
LIN HUNT SPECIALTY PRODUCTS INC WEST PATERSON NJ.....	201-977-6000
hemcut Corp State College PA.....	814-238-0514
yolo-Tronics Inc Wauconda IL.....	312-526-0800
EA Equipment Div ASI Tempe AZ.....	602-967-8818
ectronic Trend Products Cupertino CA.....	408-996-7401
ichromatic Inc Waltham MA.....	617-893-2020
terlab Inc Danbury CT.....	203-748-5624
pro Circuit Systems Inc Fenton MO.....	314-343-1630
In Hunt Specialty Products Inc.....	
West Paterson NJ.....	201-977-6000
hipley Co Inc Newton MA.....	617-969-5500
parton Technology Inc Rio Rancho NM.....	505-892-5300

MACHINES—PRINTED CIRCUIT PRODUCTION, PRINTERS, PHOTOGRAPHIC

TETKO INC ELMSTFORD NY.....	914-592-5010
Affiliated Manufacturers Inc North Branch NJ.....	201-722-7100
Aremco Products Inc Ossining NY.....	914-762-0685
Chemcut Corp State College PA.....	814-238-0514
Cyclo-Tronics Inc Wauconda IL.....	312-526-0800
Eastern Marking Machines Hempstead NY.....	516-483-7070
Engineered Technical Products Inc Somerville NJ.....	201-725-0330
Etchomatic Inc Waltham MA.....	617-893-2020
Harwell Enterprises Inc Gastonia NC.....	704-864-9777
Shipley Co Inc Newton MA.....	617-969-5500
Simco Co Inc Hatfield PA.....	215-822-2171
Sparton Technology Inc Rio Rancho NM.....	505-892-5300
Tetko Inc Elmstfod NY.....	914-592-5010

MACHINES—PRINTED CIRCUIT PRODUCTION, PRINTERS, SILK SCREEN

See Silk Screen Printing Equipment

MACHINES—PRINTED CIRCUIT PRODUCTION, PUNCHING EQUIPMENT

Black & Webster Inc Waltham MA.....	617-890-9100
Cencorp Sub Dover Technology Inc Boulder CO.....	303-666-4204
High Speed Hammer Co Inc Rochester NY.....	716-266-6740
Stripit Akron NY.....	716-542-4511
Tam Ceramics Inc Niagara Falls NY.....	716-278-9400

MACHINES—RESISTOR MANUFACTURING, ASSEMBLY

Autosplise Inc Woodside NY.....	718-429-0500
Design Technology Corp Billerica MA.....	617-663-7000
High Speed Hammer Co Inc Rochester NY.....	716-266-6740
Kahle Engineering Co Union City NJ.....	201-867-6500
Kinematrix Inc Concord NH.....	603-224-6583
MTI Corp Ivyland PA.....	215-355-3110
Solatron Enterprises Inglewood CA.....	213-678-4981

MACHINES—RESISTOR MANUFACTURING, SORTING

Affiliated Manufacturers Inc North Branch NJ.....	201-722-7100
Automated Production Concepts Inc Pompton Plains NJ.....	201-831-8300
Daymarc Corp Waltham MA.....	617-890-2345
Design Technology Corp Billerica MA.....	617-663-7000
High Speed Hammer Co Inc Rochester NY.....	716-266-6740
MTI Corp Ivyland PA.....	215-355-3110
Solatron Enterprises Inglewood CA.....	213-678-4981
Trigon Industries Inc Milpitas CA.....	408-943-8200

MACHINES—RESISTOR MANUFACTURING, WINDING

GORMAN MACHINE CORP BROCKTON MA.....	617-588-2900
ADV PG 243	
Gorman Machine Corp Brockton MA.....	617-588-2900

MACHINES—RESISTOR NETWORK TRIMMING (EXCEPT LASERS)

See Also Laser Machining & Trimming Systems

Biddle Instruments-Sensitek Blue Bell PA.....	215-646-9200
Comco Inc Burbank CA.....	818-841-5500
Heller Industries Inc Florham Park NJ.....	201-377-6800
IC Probolics Inc Longwood FL.....	305-339-8298

MACHINES—RESISTOR TRIMMING, LASER

See Laser Machining & Trimming Systems

MACHINES—SEMICONDUCTOR PRODUCTION, ASSEMBLY (EXCEPT GLASS DIODE)

CANON USA INC ELECTRONIC COMPONENTS DIV LAKE SUCCESS NY.....	516-488-6700
RESEARCH INSTRUMENT CO INC SOUTH WINDSOR CT.....	203-528-9625
ADV PG 244	

Affiliated Manufacturers Inc North Branch NJ.....	201-722-7100
Associate General Labs Inc Brookfield IL.....	312-485-1135
Autosplise Inc Woodside NY.....	718-429-0500
Canon USA Inc Electronic Components Div Lake Success NY.....	516-488-6700
Laurier Associates Inc Hudson NH.....	603-889-8800
Lumonics Inc Kanata ON.....	613-592-1460
Machine Technology Inc Parsippany NJ.....	201-386-0600
Mechanization Assocs Mt View CA.....	415-967-4262
MTI Corp Ivyland PA.....	215-355-3110
Research Instrument Co Inc South Windsor CT.....	203-528-9625
Semiconductor Equipment Corp Moorpark CA.....	805-529-2293
Solid State Equipment Corp Fort Washington PA.....	215-643-7900
Sparton Technology Inc Rio Rancho NM.....	505-892-5300
Taylor-Winfield Corp Warren OH.....	216-399-8861
Unimation Inc Danbury CT.....	203-744-1800

MACHINES—SEMICONDUCTOR PRODUCTION, ASSEMBLY, GLASS DIODE

RESEARCH INSTRUMENT CO INC SOUTH WINDSOR CT.....	203-528-9625
ADV PG 244	
Budd Cato Assoc Inc Brielle NJ.....	201-528-7439
Kahle Engineering Co Union City NJ.....	201-867-6500
Research Instrument Co Inc South Windsor CT.....	203-528-9625
Unimation Inc Danbury CT.....	203-744-1800

MACHINES—SEMICONDUCTOR PRODUCTION, BONDERS, DIE & WIRE

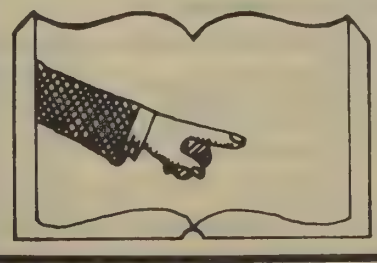
Donovan Industries Scotia NY.....	518-346-3489
Hughes Aircraft Co Assembly & Test Prods Carlsbad CA.....	619-931-3622
Laurier Associates Inc Hudson NH.....	603-889-8800
Orthodyne Electronics Corp Costa Mesa CA.....	714-631-7800
Semiconductor Equipment Corp Moorpark CA.....	805-529-2293
Teledyne TAC Woburn MA.....	617-935-5400
Unimation Inc Danbury CT.....	203-744-1800

MACHINES—SEMICONDUCTOR PRODUCTION, ION IMPLANT

See Ion Implantation Equipment

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MACHINES—SEMICONDUCTOR PRODUCTION, LEAD STRAIGHTENING & POSITIONING

MEA DIV UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-772-7563
UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-775-1102
Adco Tech Corp Milpitas CA	408-943-9430
Automated Production Concepts Inc	
Pompton Plains NJ	201-831-8300
Autosplice Inc Woodside NY	718-429-0500
Henry Mann Inc Huntingdon Valley PA	215-355-7200
MEA Div Universal Instruments Corp	
Binghamton NY	607-772-7563
Micro Component Technology Inc St Paul MN	612-482-5100
MTI Corp Ivyland PA	215-355-3110
Simonds Inc Southbridge MA	617-764-3235
Universal Instruments Corp Binghamton NY	607-775-1102

MACHINES—SEMICONDUCTOR PRODUCTION, PHOTOMASKING EQUIPMENT

See Cameras; Photomask Listings; Photoresist
Listings

MACHINES—SEMICONDUCTOR PRODUCTION, WAFER PROCESSING (EXCEPT FURNACES)

MICROMECH MFG CORP ROSELLE NJ	201-245-0505
ADV PG 246	
Balzers Plasma Div Hudson NH	603-889-6888
BTU Engineering Corp. North Billerica MA	617-667-4111
Crystal Specialties Inc Portland OR	503-684-0470
Crystal Specialties Inc Crystal Growth Div	
Ephraim UT	818-283-4011
Eaton Semiconductor Equip Oper	
San Jose CA	408-943-0800
Electro Scientific Industries Inc Portland OR	503-641-4141
FSI Corp Chaska MN	612-448-5440
GaSonics Div Atomel Corp Sunnyvale CA	408-745-1340
GCA/IC Systems Group Bedford MA	617-275-5400
Glo-Quartz Electric Heater Co Inc Mentor OH	216-255-9701
Headway Research Inc Garland TX	214-272-5431

Inficon Leybold-Heraeus Inc	
East Syracuse NY	315-437-0377
Interlab Inc Danbury CT	203-748-5624
Lam Research Corp Fremont CA	415-659-0200
Leighton Electronics Inc Leighton PA	215-377-5990
Leybold-Heraeus Technologies Inc	
San Jose CA	408-294-7759
Machine Technology Inc Parsippany NJ	201-386-0600
Mechanization Assocs Mt View CA	415-967-4262
M & G Labs Inc Branchville NJ	201-948-6030
Micromech Mfg Corp Roselle NJ	201-245-0505
OAI Santa Clara CA	408-988-6900
Phoenix Materials Corp Kittanning PA	412-548-1531
Plasma-Therm Inc Kresson NJ	609-767-6120
Quantronix Corp Smithtown NY	516-273-6900
Solid State Equipment Corp	
Fort Washington PA	215-643-7900
Speedfam Corp Des Plaines IL	312-827-8891
Teledyne TAC Woburn MA	617-935-5400
Unimation Inc Danbury CT	203-744-1800
U S Laser Corp Wyckoff NJ	201-848-9200
Universal Photonics Inc Hicksville NY	516-935-4000
Varian Semiconductor Equip Group	
Palo Alto CA	415-493-4000
Veeco Industrial Equip Div Plainview NY	516-349-8300
White S S Ind Prods Pennwalt Corp	
Piscataway NJ	201-752-8300

MACHINES—SEMICONDUCTOR PRODUCTION, WAFER SCRIBING

MICROMECH MFG CORP ROSELLE NJ	201-245-0505
ADV PG 246	
Aremco Products Inc Ossining NY	914-762-0685
Bruce Diamond Corp Attleboro MA	617-222-3755
Engineered Technical Products Inc	
Somerville NJ	201-725-0330
IC Protobics Inc Longwood FL	305-339-8298
Mechanization Assocs Mt View CA	415-967-4262
Micromech Mfg Corp Roselle NJ	201-245-0505
Quantronix Corp Smithtown NY	516-273-6900
Semiconductor Equipment Corp Moorpark CA	805-529-2293
U S Laser Corp Wyckoff NJ	201-848-9200

MACHINES—SHOCK TEST

See Shock Test Equipment

MACHINES—SILK-SCREENING

See Silk Screen Printing Equipment

MACHINES—SMALL HAND, MECHANICAL OR PNEUMATIC

See Tools

MACHINES—SOLDERING (EXCEPT DIP & WAVE)

MEA DIV UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-772-7563
RESEARCH INSTRUMENT CO INC	
SOUTH WINDSOR CT	203-528-962
UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-775-1102
Amacoil Machinery Inc New Rochelle NY	914-235-505
Aremco Products Inc Ossining NY	914-762-0685
Assemblyonics Inc Brentwood NY	516-231-444
Coherent General Sturbridge MA	617-347-268
Corpane Industries Inc Louisville KY	502-491-443
Design Technology Corp Billerica MA	617-663-700
EFD Inc East Providence RI	401-434-168
Fibra-Sonics Inc Chicago IL	312-286-737
Gardiner Solder Co Chicago IL	312-847-010
Henes Products Corp Phoenix AZ	602-275-412
Hollis Automation Inc Nashua NH	603-889-112
Kahle Engineering Co Union City NJ	201-867-650
Lindberg/Cycle-Dyne Unit Gen Signal	
Chicago IL	312-942-250
L & R Mfg Co Kearny NJ	201-991-532
MEA Div Universal Instruments Corp	
Binghamton NY	607-772-7563
Micro Component Technology Inc St Paul MN	612-482-5100
MTI Corp Ivyland PA	215-355-3110
Overnight Engineering Inc San Jose CA	408-448-048
Raychem Corp Menlo Park CA	415-361-333
Research Instrument Co Inc	
South Windsor CT	203-528-962
RI/Control Systems Div Research Inc	
Minneapolis MN	612-941-330
Roean Industries Inc Picoima CA	818-767-704
Royal Soldering Systems Glendale CA	213-245-107
Tridak Div Indicon Inc Brookfield CT	203-775-128
Unit Design Inc Fullerton CA	714-526-080
U S Laser Corp Wyckoff NJ	201-848-9200
Universal Instruments Corp Binghamton NY	607-775-1102
Weltek Intl Inc South Bend IN	219-232-540
Wenescor Inc Chicago IL	312-973-440

MACHINES—SOLDERING, DIP & WAVE

MEA DIV UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-772-7563
UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-775-1102
Air-Vac Engineering Co Milford CT	203-874-250
Automated Production Concepts Inc	
Pompton Plains NJ	201-831-8300
Cyclo-Tronics Inc Wauconda IL	312-526-080
Ethomatic Inc Waltham MA	617-893-200
Heller Industries Inc Florham Park NJ	201-377-680
Hollis Automation Inc Nashua NH	603-889-112
Kenco Industries Inc Atlanta GA	404-475-611
Kinematrix Inc Concord NH	603-224-650
MEA Div Universal Instruments Corp	
Binghamton NY	607-772-7563
Mechanization Assocs Mt View CA	415-967-4262
Northern Automatic Assembly Inc	
Shoreview MN	612-481-000
OAL Associates Inc Escondido CA	619-743-710
Sparton Technology Inc Rio Rancho NM	505-892-530
Unit Design Inc Fullerton CA	714-526-080
Universal Instruments Corp Binghamton NY	607-775-1102
Wenescor Inc Chicago IL	312-973-440

MACHINES—SORTING (EXCEPT CAPACITOR, CRYSTAL & RESISTOR)

Affiliated Manufacturers Inc North Branch NJ	201-722-710
Daymarc Corp Waltham MA	617-890-200
Design Technology Corp Billerica MA	617-663-700
High Speed Hammer Co Inc Rochester NY	716-266-670
Laurier Associates Inc Hudson NH	603-889-880
Lundy Electronics & Systems Inc	
Glen Head NY	516-871-900
MTI Corp Ivyland PA	215-355-3110
Solatron Enterprises Inglewood CA	213-678-490
Teledyne TAC Woburn MA	617-935-540
Trigon Industries Inc Milpitas CA	408-943-820
Tri-Tech International Burbank CA	213-846-920
Webb Co Jervis B Farmington Hills MI	313-553-120

MACHINES—SPRAYING

See Electrostatic Spray Systems; Photoresist
Sprayers

MACHINES—TERMINAL INSTALLING

AMP INCORPORATED HARRISBURG PA	717-564-010
CONCORD ELECTRONICS CORP	
NEW YORK NY	212-777-650
MEA DIV UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-772-7563
UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-775-1102
ZIERICK MFG CORP MOUNT KISCO NY	914-666-290

lled Systems Corp Greensboro NC.....	919-299-2294
macoil Machinery Inc New Rochelle NY.....	914-235-5050
MP Incorporated Harrisburg PA.....	717-564-0100
MP Products Corp Southeastern PA.....	215-647-1000
rk-Les Corp Watertown MA.....	617-924-2330
rtos Engineering Co New Berlin WI.....	414-782-3300
utomated Production Concepts Inc.....	
Pompton Plains NJ.....	201-831-8300
utosplice Inc Woodside NY.....	718-429-0500
lack & Webster Inc Waltham MA.....	617-890-9100
umdy Corp Norwalk CT.....	203-838-4444
ambridge Automatic Div Eyelet Tool Co.....	
Natick MA.....	617-653-9002
ncord Electronics Corp New York NY.....	212-777-6571
esign Technology Corp Billerica MA.....	617-663-7000
uPont Connector Systems Camp Hill PA.....	717-975-2000
yelet Tool Co Natick MA.....	617-653-9002
alco Div Microdot Inc Montgomeryville PA.....	215-699-5373
EA Div Universal Instruments Corp.....	
Binghamton NY.....	607-772-7563
ethode Electronics Inc Interconnect Prods Div.....	
Rolling Meadows IL.....	312-392-3500
idland-Ross Corp Electronic Connector Div.....	
Cambridge MA.....	617-491-5400
lex Inc Lisle IL.....	312-969-4550
overnight Engineering Inc San Jose CA.....	408-448-0462
anduit Corp Tinley Park IL.....	312-532-1800
atton-MacGuyre Inc Providence RI.....	401-941-6000
ecision Paper Tube Co Wheeling IL.....	312-537-4250
electro Corp Trumbull CT.....	203-372-4118
egal Inc Edward Thorndike CT.....	203-283-5821
monds Inc Southbridge MA.....	617-764-3235
oberg & Son Inc Cranston RI.....	401-461-8220
mpson Co Inc Bayport NY.....	516-472-2000
ited Technologies Automotive Grp Terminal Prods.....	
Huntington IN.....	219-356-2700
iversal Instruments Corp Binghamton NY.....	607-775-1102
ECO Div Lifton Systems Inc Van Nuys CA.....	818-786-9381
IP Industries Inc Paterson NJ.....	201-345-5800
erick Mfg Corp Mount Kisco NY.....	914-666-2911

MACHINES—TOROID WINDING

See Machines—Coil Winding

MACHINES—TRANSFORMER LAMINATING

macoil Machinery Inc New Rochelle NY.....	914-235-5050
rdin Radar & EW Div San Jose CA.....	408-629-1100
esign Technology Corp Billerica MA.....	617-663-7000
nematrix Inc Concord NH.....	603-224-6583

MACHINES—TRANSISTOR LEAD STRAIGHTENING

See Machines—Semiconductor Production, Lead

Straightening & Positioning

MACHINES—TUBE (ELECTRON) MANUFACTURING

hle Engineering Co Union City NJ.....	201-867-6500
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MACHINES—ULTRASONIC

See Ultrasonic Equipment

MACHINES—VACUUM

See Vacuum Systems

MACHINES—VIBRATION TEST

See Vibration Test Machines

MACHINES—WELDING COMPONENT CASE & CAN

SEARCH INSTRUMENT CO INC.....	
SOUTH WINDSOR CT.....	203-528-9625
dvantek Inc Minneapolis MN.....	612-944-7654
ssociate General Labs Inc Brookfield IL.....	312-485-1135
herent General Sturbridge MA.....	617-347-2681
herent Inc Palo Alto CA.....	415-493-2111
anes Products Corp Phoenix AZ.....	602-275-4126
ghes Aircraft Co Assembly & Test Prods.....	
Carlsbad CA.....	619-931-3622
hle Engineering Co Union City NJ.....	201-867-6500
nematrix Inc Concord NH.....	603-224-6583
errick Engineering Inc Nashville TN.....	615-259-9300
l Conrac Machine Tool Westminster CA.....	714-894-4711
earch Instrument Co Inc.....	
South Windsor CT.....	203-528-9625
lver & Assoc G H Newtonville MA.....	617-965-1636
olid State Equipment Corp.....	
Fort Washington PA.....	215-643-7900
omson General Inc Woburn MA.....	617-933-1010
imation Inc Danbury CT.....	203-744-1800
IS Laser Corp Wyckoff NJ.....	201-848-9200

MACHINES—WELDING, GENERAL PURPOSE

See Welders

MACHINES—WELDING, SPOT

See Welders

MACHINES—WIRE PROCESSING, CUTTING

AMP INCORPORATED HARRISBURG PA.....	717-564-0100
Amacoil Machinery Inc New Rochelle NY.....	914-235-5050
AMP Incorporated Harrisburg PA.....	717-564-0100
Automated Production Concepts Inc.....	
Pompton Plains NJ.....	201-831-8300
Autosplice Inc Woodside NY.....	718-429-0500
Carpenter Mfg Co Inc Manlius NY.....	315-682-9176
Design Technology Corp Billerica MA.....	617-663-7000
Eraser Co Inc The Syracuse NY.....	315-454-3237
Ewald Instruments Kent CT.....	203-927-3278
Heller Industries Inc Florham Park NJ.....	201-377-6800
Ideal Industries Inc Sycamore IL.....	815-895-5181
Kahle Engineering Co Union City NJ.....	201-867-6500
Manger Electric Co Inc Stamford CT.....	203-348-7761
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Methode Electronics Inc Interconnect Prods Div.....	
Rolling Meadows IL.....	312-392-3500
Midland-Ross Corp Electronic Connector Div.....	
Cambridge MA.....	617-491-5400
Molex Inc Lisle IL.....	312-969-4550
Northern Automatic Assembly Inc.....	
Shoreview MN.....	612-481-0022
Overnight Engineering Inc San Jose CA.....	408-448-0462
PHI Conrac Machine Tool Westminster CA.....	714-894-4711
Simonds Inc Southbridge MA.....	617-764-3235
Sparton Technology Inc Rio Rancho NM.....	505-892-5300
Versa Machinery Div Foster & Allen Inc.....	
Somerville NJ.....	201-526-6100

MACHINES—WIRE PROCESSING, MARKING

Ackerman Gould Co Inc Bohemia NY.....	516-589-2000
Acromark Co Inc The Berkeley Heights NJ.....	201-464-6474
Amacoil Machinery Inc New Rochelle NY.....	914-235-5050
Apex Machine Co Fort Lauderdale FL.....	305-566-1572
Artos Engineering Co New Berlin WI.....	414-782-3300
Autosplice Inc Woodside NY.....	718-429-0500
Design Technology Corp Billerica MA.....	617-663-7000
Formulabs Industrial Inks Inc Escondido CA.....	800-531-9358
Geartronics Corp N Billerica MA.....	617-933-1400
Gillies Co Inc Duncan M West Boylston MA.....	617-835-4445
Manger Electric Co Inc Stamford CT.....	203-348-7761
Markem Corp Keene NH.....	603-352-1130
PHI Conrac Machine Tool Westminster CA.....	714-894-4711
Remtek Corp Fremont CA.....	415-490-3999
Sossner Steel Stamps Inc.....	
Long Island City NY.....	718-361-1311
United States Machinery Div Geartronics Corp.....	
North Billerica MA.....	617-663-6566

MACHINES—WIRE PROCESSING, MEASURING

AMP INCORPORATED HARRISBURG PA.....	717-564-0100
ENVIROMARINE SYSTEMS INC.....	
LAUREL MD.....	301-598-8833
Amacoil Machinery Inc New Rochelle NY.....	914-235-5050
AMP Incorporated Harrisburg PA.....	717-564-0100
Artos Engineering Co New Berlin WI.....	414-782-3300
Automated Production Concepts Inc.....	
Pompton Plains NJ.....	201-831-8300
Autosplice Inc Woodside NY.....	718-429-0500
Carpenter Mfg Co Inc Manlius NY.....	315-682-9176
Design Technology Corp Billerica MA.....	617-663-7000
Enviro Marine Systems Inc Laurel MD.....	301-598-8833
Eraser Co Inc The Syracuse NY.....	315-454-3237
Ewald Instruments Kent CT.....	203-927-3278
Formulabs Industrial Inks Inc Escondido CA.....	800-531-9358
Geartronics Corp N Billerica MA.....	617-933-1400
Hy-Kon Mfg Co Alliance OH.....	216-821-2320
Manger Electric Co Inc Stamford CT.....	203-348-7761
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
PHI Conrac Machine Tool Westminster CA.....	714-894-4711

MACHINES—WIRE PROCESSING, STRIPPING

See Strippers

MACHINES—WIRE PROCESSING, TIN REFLOWING, STRANDED WIRE

Henes Products Corp Phoenix AZ.....	602-275-4126
Lindberg/Cycle-Dyne Unit Gen Signal.....	
Chicago IL.....	312-942-2500
U S Laser Corp Wyckoff NJ.....	201-848-9200



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MACHINES—WIRE PROCESSING, TWISTING

See Also Wire Twisters

LINEMASTER SWITCH CORP.....	
WOODSTOCK CT.....	203-974-1000
ADV PG 247.....	
Carpenter Mfg Co Inc Manlius NY.....	315-682-9176
Eraser Co Inc The Syracuse NY.....	315-454-3237
Geartronics Corp N Billerica MA.....	617-933-1400
Linemaster Switch Corp Woodstock CT.....	203-974-1000
United States Machinery Div Geartronics Corp.....	
North Billerica MA.....	617-663-6566

MACHINES—WIRING BACKPLANE ASSEMBLY, AUTOMATIC (INCL. WIRE WRAPPING)

AMP INCORPORATED HARRISBURG PA.....	717-564-0100
MEA DIV UNIVERSAL INSTRUMENTS CORP.....	
BINGHAMTON NY.....	607-772-7563
UNIVERSAL INSTRUMENTS CORP.....	
BINGHAMTON NY.....	607-772-7563
AMP Incorporated Harrisburg PA.....	717-564-0100
Augat Inc Attleboro MA.....	617-222-2202
Computer Numerical Control Corp.....	
Woburn MA.....	617-933-0091
Contact Systems Inc Danbury CT.....	203-743-3837
Huntington Beach CA.....	714-891-5305
Manger Electric Co Inc Stamford CT.....	203-348-7761
MEA Div Universal Instruments Corp.....	
Binghamton NY.....	607-772-7563
Micro Metrics Inc Paterson NJ.....	201-345-9700
Moore Systems-Stitchweld Corp.....	
Chatsworth CA.....	818-882-7700
Northern Automatic Assembly Inc.....	
Shoreview MN.....	612-481-0022
O K Industries Bronx NY.....	212-994-6600
Raychem Corp Menlo Park CA.....	415-361-3333
Robinson Nugent Inc New Albany IN.....	812-945-0211
Sparton Technology Inc Rio Rancho NM.....	505-892-5300
Universal Instruments Corp Binghamton NY.....	607-772-7563
Wire Graphics Inc Farmingdale NY.....	516-293-1525

MACHINE TOOL

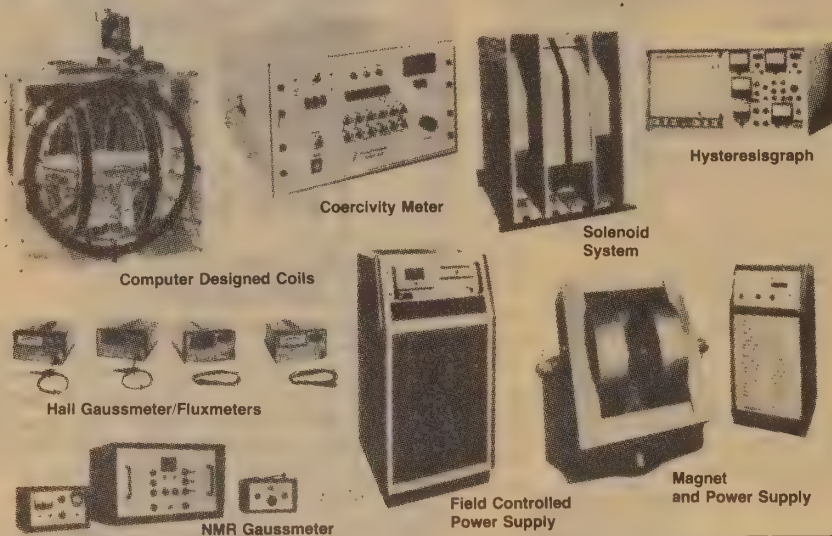
CONTROLS—NUMERICAL

See Controls—Machine Tool, Numerical



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SCIENTIFIC INC.**

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Worcester, Massachusetts 01606 U.S.A.
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Code Name: "MAGNET WOR"

MAGNESIA

See Ceramic Listings

MAGNESIUM

See Metals

MAGNET CHARGERS

See Magnet Treating Equipment

MAGNETIC ALLOYS

See Cores; Laminations; Magnetic Foil; Magnets;
Metals—Steel, Electric; Shielding

MAGNETIC AMPLIFIERS

See Amplifiers—Magnetic

MAGNETIC ANALYSIS EQUIPMENT (INCL. FLUXMETERS, GAUSSMETERS & HYSTERESISGRAPHS)

HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY	914-699-9717
WALKER SCIENTIFIC INC	
WORCESTER MA	617-852-3674
ADV PG 248	
Annis Co R B Indianapolis IN	317-637-9282
Bell Inc F W Orlando FL	305-678-6900
Caltemp Instrument Inc Escondido CA	714-743-2800
Dowty RFL Indus Instr Div Boonton NJ	201-334-3100
Electrical Instrument Service Inc	
Mt Vernon NY	914-699-9717
Hunter Products Inc Bridgewater NJ	201-526-8440
K C Industries Inc Cambridge NE	308-697-4711
LDJ Inc Troy MI	313-528-2202
Magnetic Instrumentation Inc Indianapolis IN	317-545-2102
Micro-Now Instrument Co Inc Skokie IL	312-677-4700
Sawafuji America Corp Palo Alto CA	415-322-8441
Sensitive Research Instruments Mt Vernon NY	914-699-9717
Sensor Corp Scottsdale PA	412-887-4080
Walker Scientific Inc Worcester MA	617-852-3674
Yokogawa Corp Of America Shenandoah GA	404-253-7000

MAGNETIC BRAKES & CLUTCHES

See Brakes & Clutches

MAGNETIC CARD READERS

SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Digi-Log Circuits Co Huntsville AL	205-881-7886
Dowty RFL Indus Instr Div Boonton NJ	201-334-3100
Elcom Industries Inc St Louis MO	314-429-3100
Hewlett-Packard Palo Alto CA	415-857-8000
Mag-Tek Inc Carson CA	213-631-8602
Microperipheral Corp Redmond WA	206-881-7544
Peripheral Dynamics Inc	
Plymouth Meeting PA	215-825-7090
Robot Industries Inc Dearborn MI	313-846-2623
Rusco Electronic Systems Glendale CA	818-240-2540
Sankyo Seiki Mfg Co Ltd Tokyo Japan	03-508-1157
Shokai Far East Ltd Hartsdale NY	914-681-0700
Vertex Industries Inc Vertel Div Clifton NJ	201-472-2121
Xico Inc Chatsworth CA	818-709-4403

MAGNETIC CORES

See Cores

MAGNETIC DISK DRIVE CONTROLLERS

See Controllers

MAGNETIC DISK DRIVES—FLEXIBLE DISK (DRIVES ONLY)

INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA	818-991-9614
Apple Computer Inc Cupertino CA	408-996-1010
Data General Corp Westboro MA	617-366-8911
Digital Equipment Corp Maynard MA	617-897-5111
Everett/Charles Marketing Services Inc	
Fontana CA	714-899-2521
Ghiemetti Inc Los Angeles CA	213-463-5111
Hewlett-Packard Palo Alto CA	415-857-8000
International Instrumentation Inc	
Westlake Village CA	818-991-9614
Iomega Corp Ogdun UT	801-399-2171
Miltope Corp Melville NY	516-420-0200
Mitsubishi Electronics America Inc	
Torrance CA	213-515-3993
Mitsumi Electronics Corp Melville NY	516-752-7730

Qume Corp Sub ITT San Jose CA	408-942-408
Sankyo Seiki Mfg Co Ltd Tokyo Japan	03-508-1157
SCI Systems Inc Huntsville AL	205-882-480
Tandon Chatsworth CA	818-993-664
World Storage Technology Ltd Tustin CA	714-838-148

MAGNETIC DISK DRIVES—RIGID DISK, COMPACT WINCHESTERS (DRIVES ONLY)

INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA	818-991-9614
Data General Corp Westboro MA	617-366-8911
Digital Equipment Corp Maynard MA	617-897-5111
Everett/Charles Marketing Services Inc	
Fontana CA	714-899-2521
Fujitsu America Storage Prods Div	
San Jose CA	408-946-87
Hewlett-Packard Palo Alto CA	415-857-8000
International Instrumentation Inc	
Westlake Village CA	818-991-9614
Miltope Corp Melville NY	516-420-0200
Mitsubishi Electronics America Inc	
Torrance CA	213-515-3993
Rodime Inc Boca Raton FL	714-770-30
SyQuest Technology Inc Fremont CA	415-490-75
Tandon Chatsworth CA	818-993-664
Vertex Peripherals Corp Milpitas CA	408-943-95

MAGNETIC DISK DRIVES—RIGID DISK (DRIVES ONLY EXCEPT COMPACT WINCHESTER)

Alpha Data Inc Chatsworth CA	818-882-65
Apple Computer Inc Cupertino CA	408-996-1010
Digital Equipment Corp Maynard MA	617-897-5111
Fujitsu America Storage Prods Div	
San Jose CA	408-946-87
Hewlett-Packard Palo Alto CA	415-857-8000
Miltope Corp Melville NY	516-420-0200
Mitsubishi Electronics America Inc	
Torrance CA	213-515-3993
Mitsumi Electronics Corp Melville NY	516-752-7730
Pertec Peripherals Corp Chatsworth CA	818-882-00
Rodime Inc Boca Raton FL	714-770-30

MAGNETIC DISK MEMORIES

See Computer Storage Systems

MAGNETIC DISK RECORDERS (EXCEPT MEMORY)

ALPS ELECTRIC (USA) INC	
ROCKVILLE CENTRE NY	516-766-36
ADV PG 111	
Alps Electric (USA) Inc Rockville Centre NY	516-766-36
American Computer Group Inc Boston MA	617-437-1
Ampex Corp Redwood City CA	415-367-20
Bascom-Turner Instruments Norwood MA	800-225-32
Data General Corp Westboro MA	617-366-89
Eigen/Optivision Nevada City CA	916-272-34
Iomega Corp Ogdun UT	801-399-21
Memorex Corp Santa Clara CA	408-987-10
Microdata Corp Irvine CA	714-540-67
Telectro Systems Corp Corona NY	212-651-88

MAGNETIC DISKS (MEDIA MANUFACTURERS ONLY)

See Also Computer & Word Processing Supplies

TDK CORP TOKYO JAPAN	03-278-51
Iomega Corp Ogdun UT	801-399-21
KSI Disc Products Chino CA	714-591-88
Leybold-Heraeus Technologies Inc	
San Jose CA	408-294-77
Magnetic Information Systems Inc Shelton CT	203-735-64
Omni Resources Corp Millbury MA	617-865-4
Polaroid Corp Cambridge MA	617-577-20
Stolle Corp Memory Products Div Sidney OH	513-492-1
SyQuest Technology Inc Fremont CA	415-490-75
TDK Corp Tokyo Japan	03-278-51

MAGNETIC DRUM MEMORIES

See Computer Storage Systems

MAGNETIC DRUMS (EXCEPT MEMORIES)

American Computer Group Inc Boston MA	617-437-1
Automatic Equipment Corp Cincinnati OH	513-769-0
Telectro Systems Corp Corona NY	212-651-88

MAGNETIC FIELD CHAMBERS

See Chambers, Environmental Test—Controller
Magnetic Field

MAGNETIC FILM RECORDERS

See Camera Recorders; Magnetic Tape Recorders

MAGNETIC FOIL (EXCEPT SHIELDING)

Allegheny Ludlum Steel Corp Pittsburgh PA.....	412-394-2800
Amold Engineering Co Marengo IL.....	815-568-2000
Magnetics Div Spang Co Butler PA.....	412-282-8282
Shield Co Malden MA.....	617-321-4410
Magtag Corp Hicksville NY.....	516-822-3311
Trade Metals & Minerals Corp Rumson NJ.....	201-842-2294
Electronics Div SL Ind Inc Westville NJ.....	609-456-7300

MAGNETIC IRON POWDERS

See Iron & Iron Oxide Powder

MAGNETIC LAMINATIONS

See Cores; Laminations

MAGNETIC MATERIALS—FERRITES, SOFT

EG CORPORATION SOMERVILLE NJ.....	201-722-9800
LEN-BRADLEY CO MILWAUKEE WI.....	414-382-2000
WARD MFG CO D M CHATTANOOGA TN.....	615-867-4100
ADV PG 249	
JK CORP TOKYO JAPAN.....	03-278-5111
ADV PG 249	
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len-Bradley Co Magnetic Prods Div Shawnee OK.....	405-275-5900
Automatic Equipment Corp Cincinnati OH.....	513-769-0044
Comerics Inc Woburn MA.....	617-935-4850
Puntis Industries Carson City NV.....	702-882-6123
air-Rite Products Corp Walkill NY.....	914-895-2055
magnetics Div Spang Co Butler PA.....	412-282-8282
ational Moldite Co Newark NJ.....	201-589-6860
rmag Corp Hicksville NY.....	516-822-3311
ramid Magnetics Chatsworth CA.....	818-998-0825
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te Stackpole Corp Elctn Components Div St Marys PA.....	814-781-1234
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JK Corp Tokyo Japan.....	03-278-5111
mpel Steel Co Niles IL.....	312-282-9400
deholm Corp Totowa NJ.....	201-785-8500
arian Specialty Metals Div Palo Alto CA.....	415-493-4000

MAGNETIC MEMORIES

See Memories

MAGNETIC PRINT READERS

American Computer Group Inc Boston MA.....	617-437-1100
ndy Electronics & Systems Inc Glen Head NY.....	516-671-9000

MAGNETIC READERS (EXCEPT TAPE)

See Readers—Magnetic

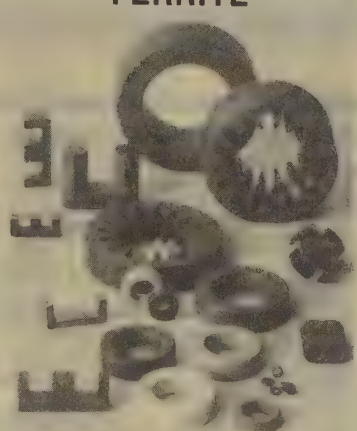
MAGNETIC RECORDING HEADS

PS ELECTRIC (USA) INC ROCKVILLE CENTRE NY.....	516-766-3636
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ANON USA INC ELECTRONIC COMPONENTS DIV LAKE SUCCESS NY.....	516-488-6700
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nternational Electro-Magnetics Inc Palatine IL.....	312-358-4622
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ramid Magnetics Chatsworth CA.....	818-998-0825

For addresses, phones & sales offices, see green pages

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FERRITE



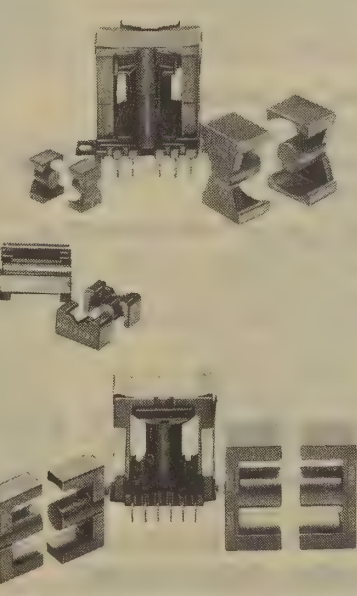
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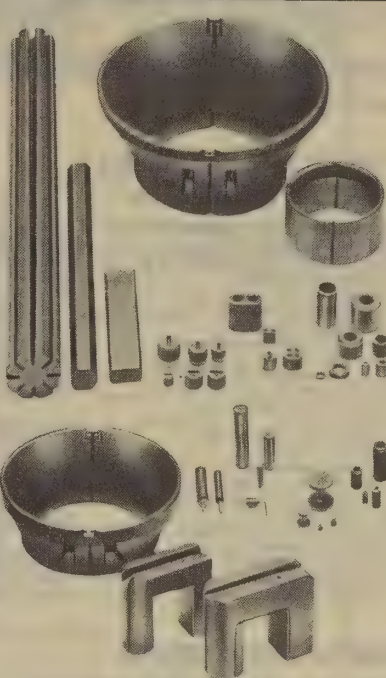


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Phone (312) 679-8200
Power ferrites use: **MH & W INTERNATIONAL CORP.**
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MAGNETIC RECORDING TAPES—INSTRUMENT & COMPUTER

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Hewlett-Packard Palo Alto CA.....	415-857-8000
Inmac Santa Clara CA.....	408-727-1970
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Liken Industries Tustin CA.....	714-832-9229
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Polaroid Corp Cambridge MA	617-577-2000
Rectortec Inc Sunnyvale CA	408-737-8441
Sony Communications Prods Co	
Park Ridge NJ	201-930-1000
TDK Corp Tokyo Japan	03-278-5111

MAGNETIC SHIELDING

See Shielding

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Electronic Processors Inc Englewood CO	303-761-8540
Inmac Santa Clara CA	408-727-1970
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Liken Industries Tustin CA	714-832-9229
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Memodyne Corp Needham Hts MA	617-444-7000
Miltope Corp Melville NY	516-420-0200
MPH Electronics Inc El Monte CA	818-442-7818
Shokai Far East Ltd Hartsdale NY	914-681-0700
Tape Concepts Inc Bristol IN	219-848-5234
TDK Corp Tokyo Japan	03-278-5111
Telex Systems Corp Corona NY	212-651-8900

MAGNETIC TAPE CONTROLS

See Controls—Machine Tool; Magnetic Tape

Search Controls

MAGNETIC TAPE CONVERTERS

See Converters

See Also Computer Output Microfilm Equipment

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ADV PG 111	
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Braemar Corp Burnsville MN	612-890-5135
Broadcast Electronics Inc Quincy IL	217-224-9600
Cetec Gauss Sun Valley CA	213-875-1900
Electronic Processors Inc Englewood CO	303-761-8540
Hewlett-Packard Palo Alto CA	415-857-8000
Interdyne Co Van Nuys CA	213-787-6800
International Electro-Magnetics Inc Palatine IL	312-358-4622
Memodyne Corp Needham Hts MA	617-444-7000
Miltope Corp Melville NY	516-420-0200
MPH Electronics Inc El Monte CA	818-442-7818
PHI Technologies Inc Oklahoma City OK	405-521-9000
Raymond Engineering Inc Middletown CT	203-632-1000
Reproduction Technologies Inc Bristol IN	219-848-5233
Sankyo Seiki Mfg Co Ltd Tokyo Japan	03-508-1157
Sequential Information Systems Inc	
Elmsford NY	914-592-5930
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sundstrand Data Control Inc Redmond WA	206-885-3711
Tape-Athon Corp Ingwood CA	213-676-6752
Tape Concepts Inc Bristol IN	219-848-5234
Telex Systems Corp Corona NY	212-651-8900
Telex Communications Inc Minneapolis MN	612-884-4051

MAGNETIC TAPE DECKS (EXCEPT COMPUTER MEMORY DRIVES)

SHOKAI FAR EAST LTD HARTSDALE NY	
TELEDYNE GEOTECH GARLAND TX	214-271-2561
THORN EMI TECHNOLOGY INC	
ATLANTA GA	404-587-0017
ADV PG 251	
Akai America Ltd Compton CA	213-537-3880
American Computer Group Inc Boston MA	617-437-1100
Amilon Corp Woodside NY	718-274-1794
Braemar Corp Burnsville MN	612-890-5135
Broadcast Electronics Inc Quincy IL	217-224-9600
Comark Corp Medford MA	617-359-8161
Hewlett-Packard Palo Alto CA	415-857-8000
Honeywell Test Instruments Div Denver CO	303-773-4700
Interdyne Co Van Nuys CA	213-787-6800
International Electro-Magnetics Inc Palatine IL	312-358-4622
Kennedy Co Monrovia CA	818-357-8831
Memodyne Corp Needham Hts MA	617-444-7000

Microdata Corp Irvine CA	714-540-6730
MPH Electronics Inc El Monte CA	818-442-7818
PHI Technologies Inc Oklahoma City OK	405-521-9000
Rectortec Inc Sunnyvale CA	408-737-8441
Reproduction Technologies Inc Bristol IN	219-848-5233
RIL Electronics Inc Warrington PA	215-343-5075
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sundstrand Data Control Inc Redmond WA	206-885-3711
Tape-Athon Corp Ingwood CA	213-676-6752
Tape Concepts Inc Bristol IN	219-848-5234
Telex Systems Corp Corona NY	212-651-8900
Teledyne Geotech Garland TX	214-271-2561
Telex Communications Inc Minneapolis MN	612-884-4051
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MAGNETIC TAPE DRIVES—COMPUTER MEMORY, CARTRIDGE & CASSETTE (DRIVES ONLY)

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DEI San Diego CA	619-452-7840
Digi-Data Corp Jessup MD	301-498-0200
Digital Equipment Corp Maynard MA	617-897-5111
Electronic Processors Inc Englewood CO	303-761-8540
Fujitsu America Storage Prods Div	
San Jose CA	408-946-8777
Hewlett-Packard Palo Alto CA	415-857-8000
International Instrumentation Inc	
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MPH Electronics Inc El Monte CA	818-442-7818
PHI Technologies Inc Oklahoma City OK	405-521-9000
Raymond Engineering Inc Middletown CT	203-632-1000
Sankyo Seiki Mfg Co Ltd Tokyo Japan	03-508-1157
Tape Concepts Inc Bristol IN	219-848-5234
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Shokai Far East Ltd Hartsdale NY	914-681-0700
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Wide Range Electronics Corp St Louis MO	314-343-9191

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Lake Success NY	516-488-6700
Data General Corp Westboro MA	617-366-8911
Hewlett-Packard Palo Alto CA	415-857-8000
Interdyne Co Van Nuys CA	213-787-6800
Memodyne Corp Needham Hts MA	617-444-7000
Miltope Corp Melville NY	516-420-0200
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Telex Systems Corp Corona NY	212-651-8900

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Craig Consumer Electronics Compton CA	213-537-1233
Gordon Enterprises Inc North Hollywood CA	818-985-5500
Lake Systems Corp Newton MA	617-244-6881
MP Audio Corp Easton CT	203-268-2385
PHI Technologies Inc Oklahoma City OK	405-521-9000
Reproduction Technologies Inc Bristol IN	219-848-5233
Tape-Athon Corp Ingwood CA	213-676-6752
Wide Range Electronics Corp St Louis MO	314-343-9191

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ADV PG 251	
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Amilon Corp Woodside NY	718-274-1794
Ampex Corp Redwood City CA	415-367-2011
Broadcast Electronics Inc Quincy IL	217-224-9600
Continental Resources Inc Bedford MA	617-275-0801
Data General Corp Westboro MA	617-366-8911
Fairchild Weston Systems Inc Data Recorders	
Sarasota FL	813-371-0811
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4001
International Electro-Magnetics Inc Palatine IL	312-358-4622
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RCA Government Systems Div Cherry Hill NJ	609-338-3001
Reproduction Technologies Inc Bristol IN	219-848-5233
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Tape Concepts Inc Bristol IN	219-848-5234
Telex Systems Corp Corona NY	212-651-8900
Teledyne Geotech Garland TX	214-271-2561
Tele Measurements Inc Clifton NJ	201-473-8821
Telex Communications Inc Minneapolis MN	612-884-4051
Thorn EMI Technology Inc Atlanta GA	404-587-0017
Vetter Co A R Rebersburg PA	814-349-5461
Wide Range Electronics Corp St Louis MO	314-343-9191

MAGNETIC TAPE RECORDERS—COMPUTER SYSTEMS

See Computer Storage Systems

MAGNETIC TAPE RECORDERS—DICTATION

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Auditronics Corp North Hollywood CA	818-765-2645
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Reproduction Technologies Inc Bristol IN	219-848-5233
Tape Concepts Inc Bristol IN	219-848-5234
Telex Systems Corp Corona NY	212-651-8900

MAGNETIC TAPE RECORDERS—DIGITAL, CARTRIDGE & MEMORY DRIVES)

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Digital Technology Associates LaVerne CA	714-596-4141
Electronic Processors Inc Englewood CO	303-761-8540
Fairchild Weston Systems Inc Data Recorders	
Sarasota FL	813-371-0811
Hewlett-Packard Palo Alto CA	415-857-8000
Honeywell Test Instruments Div Denver CO	303-773-4700
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Miltope Corp Melville NY	516-420-0200
MPH Electronics Inc El Monte CA	818-442-7818
Raymond Engineering Inc Middletown CT	203-632-1000
Reproduction Technologies Inc Bristol IN	219-848-5233
Sea Data Corp Newton MA	617-244-3211
Tape Concepts Inc Bristol IN	219-848-5234

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Tape Concepts Inc Bristol IN	219-848-5234

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See Teaching Machines

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Recorders****SE9000 16 inch Laboratory Recorders**

Full 42 track record/reproduce in single 6 foot rack. 7, 14, 28, 32, and 42 track, field convertible. 9 electronically switchable speeds, 15/16 -240 ips. IRIG Intermediate and Wideband; 4 MHz direct, 1 MHz FM, 40 kbpI HDDR; modular for any mix. Built-in calibrator for performance verification. Built-in tape cleaner. Optional IEEE-488 interface.

SE9000HD High Density Digital Recording Systems

Packing density over 40 kbpI using standard headstacks and tape. Auto-ranging bit synchronization, microprocessor selection of tape speed for optimum packing density. Fully bi-directional operation, including error correction. Serial/parallel conversion, or individual synchronous or asynchronous parallel inputs. Rates to 150 Mbps.

SE9500 Formatter

Provides HDDR capability to any 2 MHz wideband IRIG Recorder. Data transfer rates to 144 Mbps. Switchable track fan out—2 to 32 tracks—to 4.5 Mbps per track. Works with new generation double density and microgap recorders. Auto-ranging bit synchronization, built-in error detection and correction. Serial, parallel, or word serial modes.

SE7000A, C, and D Field Portable Recorders

IRIG Intermediate and Wideband Group 1 recorders. 7 to 42 tracks. FM, direct, and HDDR in any mix, plus voice log. 1/2 and 1 inch tape, field convertible. 15/16 to 120 ips, tachometer or tape controlled. Built-in calibrator. Hand held or rack mounted remote controls. Optional 20-39 Vdc power, and IEEE-488 interface.

SE7000M Wideband

IRIG Wideband capabilities in the SE7000 chassis. 2MHz direct, 500 kHz FM, 30 kbpI HDDR. 7 or 14 track. Built-in calibrator. Optional 20-39 Vdc power, and IEEE-488 interface.

Lightweight SE3000 Series

offers heavyweight features. 1/4 inch or 1/2 inch tape, field convertible. 4, 8, or 14 modular channels in any mix of FM, direct, or HDDR. Buy and carry only the channels you need. 8 speeds, 15/32 to 60 ips. Record up to 34 hours continuously. Built-in calibrator. Operates on 11-30 Vdc or 100-250 Vac (48-420 Hz). Optional IEEE-488 interface.

**SE6300 Direct Writing
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Gould Inc Recording Systems Div Cleveland OH	216-361-3315
Hewlett-Packard Palo Alto CA	415-857-8000
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Telex Communications Inc Minneapolis MN	612-884-4051
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Wolff Industries San Marino CA	818-793-9148

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Canon USA Inc Electronic Components Div Lake Success NY	516-488-6700
Computer-Link Corp Wilmington MA	617-657-8820
Elcom Industries Inc St Louis MO	314-429-3100
Electronic Processors Inc Englewood CO	303-761-8540
Interdyne Co Van Nuys CA	213-787-6800
Kennedy Co Monrovia CA	818-357-8831
Memodyne Corp Needham Hts MA	617-444-7000
Tape Concepts Inc Bristol IN	219-848-5234
Telectro Systems Corp Corona NY	212-651-8900

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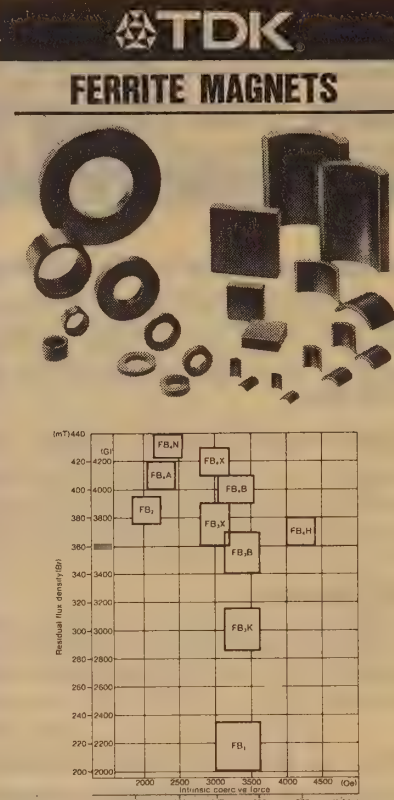
See Teaching Machines

MAGNETIC TAPE RECORDERS—TELEMETRY

THORN EMI TECHNOLOGY INC ATLANTA GA ADV PG 251	404-587-0017
Amilon Corp Woodside NY	718-274-1794
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Fairchild Weston Systems Inc Data Recorders Sarasota FL	813-371-0811
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Marathon Products Corp West Boylston MA	617-853-0988
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Tele Measurements Inc Clifton NJ	201-473-8822
Uarco Inc Barrington IL	312-381-7000

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See Magnet Treating Equipment

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See Also Security Systems—Weapon Detectors

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Dowdy RFL Indus Instr Div Boonton NJ	201-334-310
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Magnetic Instrumentation Inc Indianapolis IN	317-545-210
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Sparton Electronics Div Sparton Corp Jackson MI	517-787-860
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See Hall-Effect Devices

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See Ultrasonic Equipment

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See Electromagnets

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Magnetic Systems Rochester NY.....	716-244-2940
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Ogallala Electronics Sub Magnetics & Elctns Div Ogallala NE.....	308-284-4093
Permag Corp Hicksville NY.....	516-822-3311
Philips Electronic Comps & Mats Div Eindhoven Netherlands.....	040791111
Sawafuji America Corp Palo Alto CA.....	415-322-8441
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TDK Corp Tokyo Japan.....	03-278-5111
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Dowty RFL Indus Instr Div Boonton NJ.....	201-334-3100
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Green Rectifier Corp Nutley NJ.....	201-667-8721
IG Technologies Inc Valparaiso IN.....	219-462-3131
LDJ Inc Troy MI.....	313-528-2202
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Magnaflux Corp Chicago IL.....	312-867-8000
Magnetic Instrumentation Inc Indianapolis IN.....	317-545-2102
Magnet Sales & Mfg Co Culver City CA.....	213-391-7213
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Martindale Electric Co Cleveland OH.....	216-521-8567
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Sawafuji America Corp Palo Alto CA.....	415-322-8441
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United Mineral & Chemical Corp New York NY.....	212-966-4330
Walker Scientific Inc Worcester MA.....	617-852-3674

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Edroy Products Co Inc Nyack NY.....	914-358-6600
Fostoria Industries Inc Gen Prods Div Fostoria OH.....	419-435-9201
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
General Scientific Equipment Co Philadelphia PA.....	215-564-6366
Grobet File Co of America Inc Carlstadt NJ.....	201-939-6700
Hunter Products Inc Bridgewater NJ.....	201-526-8440

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Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Mark V Lab Inc East Granby CT.....	203-653-7201
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Roxter Corp Long Island City NY.....	212-392-5060
Stocker & Yale Inc Beverly MA.....	617-927-3940
Sunnex Inc Needham MA.....	617-444-4730

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- Autopilots
- Communications Systems—Ship-to-Shore Networks
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- Compasses
- Computers, Analog-Aerospace & Military
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United Mineral & Chemical Corp New York NY.....	212-966-4330

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See Inks; Machines; Silk Screen Listings; Stamps

MASERS

See Amplifiers, RF—Maser

MASK ALIGNERS—PROJECTION

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ADV PGS 254, 255	
Eaton Semiconductor Equip Oper San Jose CA.....	408-943-0800
GCA/IC Systems Group Bedford MA.....	617-275-5400
Perkin-Elmer Corp Semiconductor Equip Group Norwalk CT.....	203-834-6057
Research Devices Div Amer Optical Corp Berkeley Hts NJ.....	201-464-0668

MASK-MAKING EQUIPMENT & MATERIALS

See Cameras; Digitizers; Photomask Listings;
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See Antenna Masts; Antenna Towers

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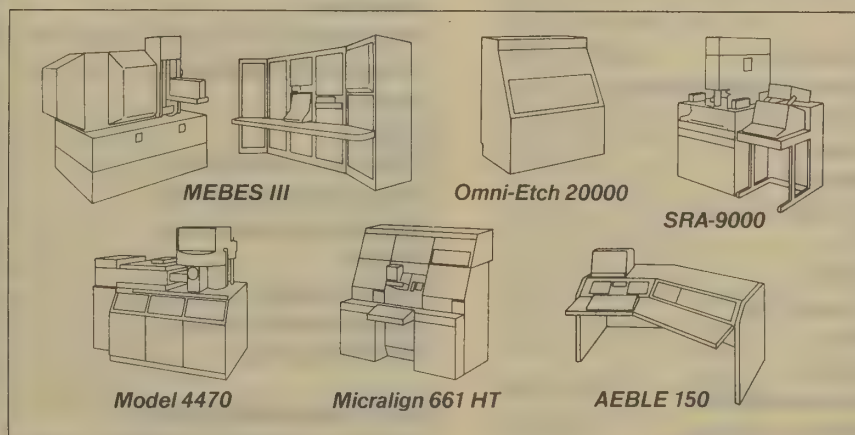
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See Networks

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Cables
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Ceramic Granules
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Ceramic Raw Materials
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Ceramic Sheets
Ceramic Tubing
Ceramics—Piezoelectric
Chemicals
Cleaning Materials
Coating Compounds
Coatings—Fungicidal
Coolants—Dielectric Liquid
Cords
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Magnetic Wire—Recording
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Mica Listings
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Photomask Film
Photomask Plates
Photoresists
Plastic Beads
Plastic Films
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Solder Fluxes & Flux Solvents
Solder Pastes
Solder Resists
Strippers, Wire—Chemical
Substrates
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Temperature Indicating Crayons
Temperature Indicating Paints
Temperature Indicating Tapes
Titanates
Tubing—Insulating
Vacuum Sputtering Targets
Varnishes—Insulating

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See Instruments & Accessories Reference List

MEASURING SETS

See Testers; Test Sets; Test Systems

MECHANICAL COUNTERS

See Counters

MECHANICAL FILTERS

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MECHANICAL RECORDERS

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MEDICAL ELECTRONICS—DIAGNOSTIC INSTRUMENTS

CONTROL TECHNOLOGY CO INC
LONG ISLAND CITY NY 718-361-21
TIME ZERO CORP CLIFTON NJ 201-340-04
Analogic Corp Peabody MA 617-532-56
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Ft Wayne IN 219-747-51
Carolina Medical Electronics Inc King NC 919-983-51
Chrono-Log Corp Havertown PA 215-853-11
Coherent Inc Palo Alto CA 415-493-21
Columbus Instruments Intl Corp
Columbus OH 614-488-61
Computer System Assoc Inc San Diego CA 619-566-39
Control Electronics Co Inc Farmingdale NY 516-694-01
Control Technology Co Inc
Long Island City NY 718-361-21
Corning Glass Works Tech Prods Div
Corning NY 607-974-90
Ednalite Corp Peekskill NY 914-737-41
EG & G Ortec Oak Ridge TN 615-482-44
Erbtec Engineering Inc Boulder CO 303-447-87
Everest Interscience Inc Tustin GA 714-992-44
Forma Scientific Div Mallinckrodt Inc
Marietta OH 614-373-47
Frye Electronics Inc Tigard OR 800-547-82
Godfrey Mfg Co Chicago IL 312-384-75
Gould Inc Recording Systems Div
Cleveland OH 216-361-33
Harworth Mfg Co Redwood City CA 415-369-36
Hewlett-Packard Palo Alto CA 415-857-80
Hiac/Royco Instruments Div Menlo Park CA 415-325-78
IR Scientific Carlisle MA 617-667-71
Keithley Instruments Inc Cleveland OH 216-248-04
Micro Component Technology Inc St Paul MN 612-482-51
Nuclear Enterprises Ltd Beenham Reading 0734-7121
Numonics Corp Lansdale PA 215-362-27
Ocean Scientific Inc Garden Grove CA 714-989-90
RIL Electronics Inc Warrington PA 215-343-50
Rodal Electronics Corp Garden City NY 516-222-00
Selective Electronic Inc Valdese NC 704-874-41
The Nucleus Inc Oak Ridge TN 615-483-00
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Control Technology Co Inc
Long Island City NY 718-361-21
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Cleveland OH 216-361-33
Hewlett-Packard Palo Alto CA 415-857-80
IR Scientific Carlisle MA 617-667-71
Jefferson Electric Co Bellwood IL 312-626-71
Kel Corp Melrose MA 617-662-21
Lake Systems Corp Newton MA 617-244-61
Marathon Products Corp West Boylston MA 617-853-01
National Wire & Cable Corp Los Angeles CA 213-225-51
North American Soar Corp Cherry Hill NJ 609-488-11
Ocean Scientific Inc Garden Grove CA 714-989-90
Pacific Communications Inc Santa Ana CA 714-546-01
Paraplegics Mfg Co Inc Bensenville IL 312-625-71
Remler Co Brisbane CA 415-468-31
Rodal Electronics Corp Garden City NY 516-222-01
Sensortek Inc Clifton NJ 201-779-51
Square D Co Palatine IL 312-397-21
Swintek Enterprises Campbell CA 408-378-81
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Yellow Springs Instrument Co Inc
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BRIDGEWATER NJ	201-526-8440
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Maxtron Mfg Co Inc Watertown CT	203-274-6781
Control Electronics Co Inc Farmingdale NY	516-694-0125
Swlett-Packard Palo Alto CA	415-857-8000
Hunter Products Inc Bridgewater NJ	201-526-8440
Laboratory Products Inc Hyde Park MA	617-364-6260
Kitralab Technologies Inc College Point NY	212-939-7171
Idale Electronics Corp Garden City NY	516-222-0050
Idale Electronics Inc New York NY	212-787-7925
JK Corp Tokyo Japan	03-278-5111
Alpey-Fisher Corp Hopkinton MA	617-435-6831

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Scientific & Medical; TV Listings; Ultrasonic
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uadri Corp Tempe AZ	602-894-2151
tandard Memories/Trendata Santa Ana CA	714-540-3605

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See Computer Storage Systems

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edtek Corp Hopkinton MA	617-435-6931
acit Inc Merrimack Pk NH	603-424-8000
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hilmetti Inc Los Angeles CA	213-463-5111
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TS (Telecom Terminal Sys) Ingewood CA	213-641-8111

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Solid State Testing Inc Burlington MA	617-272-0972
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Xicor Inc Milpitas CA	408-946-6920
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NCR Microelectronics Div Miamisburg OH	513-866-7471
NEC Electronics Inc Mtn View CA	415-960-6000
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Raytheon Semiconductor Div	
Mountain View CA	415-968-9211
Teledyne Microelectronics Los Angeles CA	213-870-9831

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Cores; Diodes; ICs Listings)

MERCURY

See Metals

MERCURY BATTERIES

See Batteries

MESSAGE SWITCHING CENTERS

See Communications Systems

METAL DETECTOR COILS

See Coils—Pickup

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Electro-Alarm Safety Devices Fresno CA	209-264-6894
Electro Corp Sarasota FL	813-355-8411
Heath Co Benton Harbor MI	616-982-3200
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Infinetics Inc Electromagnetic Div	
Wilmetton DE	302-658-2471
Omrion Electronics Inc Schaumburg IL	312-643-7900
RIL Electronics Inc Warrington PA	215-343-5075
Robot Industries Inc Dearborn MI	313-846-2623
Schonsted Instrument Co Reston VA	703-471-1050
Sensor Corp Scottsdale PA	412-887-4080

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Plastronic Engineering Co Haverhill MA	617-372-7703

METAL DETECTORS—WEAPON

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METAL EXTRUSIONS

See Metal Parts

METAL-FINISHING SERVICES

See Production Services

METALIZED PLASTIC PARTS

See Plastic Parts

METALIZING EQUIPMENT

See Machines—Metalizing; Silk Screen Printing

Equipment; Vacuum Listings

METALIZING SERVICES

See Production Services

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Semiconductor Mfg Corp Fairfield NJ	201-227-2432
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Stock Drive Products Inc Div Designatronics	
New Hyde Park NY	516-328-0200
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Webb Co Jervis B Farmington Hills MI	313-553-1220

METAL PARTS—CHASSIS

See Chassis

METAL PARTS—COINED

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& GARNER CO ATTLEBORO MA	617-226-1200
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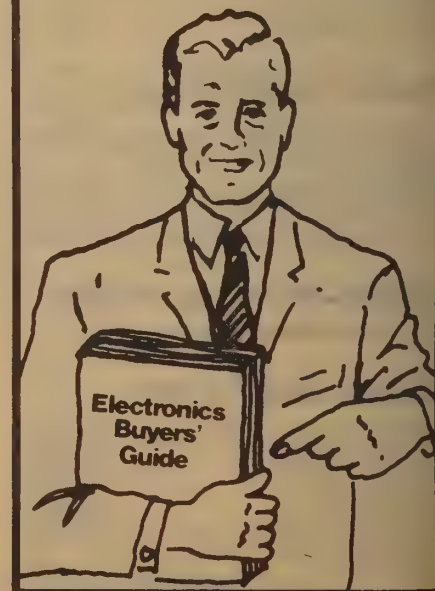
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rcuit Assembly Corp Irvine CA	714-855-7887
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Spokane WA	509-924-2200
oncord Electronics Corp New York NY	212-777-6571
ontinental Precision Stamping Inc	
Pomona CA	714-594-9014
talstrom Mfg Co Inc Jamestown NY	716-487-0111
entronics Inc Hackensack NJ	201-343-9405
eringer Mfg Co Mundelein IL	312-566-4100
evice Closures Div Mirro-Etch Prods Inc	
Stratford CT	203-378-4052
lebel Mfg Co Morton Grove IL	312-463-3100
o-Rite Mfg Co Elmwood Park NJ	201-796-1902
aton Corp Engineered Fasteners Div	
Cleveland OH	216-523-5361
y Co Philadelphia PA	215-969-4200
G & G Birtcher El Monte CA	818-442-2572
lo Industries Inc Rockford Div Rockford IL	815-397-5151
lectrical Industries Div Philips Elctns Inc	
Murray Hill NJ	201-464-3200
lectronic Essentials Inc Woodside NY	718-898-8300
Izee Metal Products Co Inc Brooklyn NY	718-435-5000
rhant Fasteners Grip Pop Fasteners Div	
Shelton CT	203-735-9341
mporium Specialties Co Inc Austin PA	814-647-8661
el Pro Inc Skokie IL	312-761-4500
otofabrication Corp Chicago IL	312-463-6211
ite Div Emerson Electric Co Cincinnati OH	513-731-2020
TE Precision Materials Danvers MA	617-777-1900
landy & Harman Electronic Mats Corp	
North Attleboro MA	617-695-1401
enes Products Corp Phoenix AZ	602-275-4126
teraus-Volkert Inc Queens Village NY	718-464-8400
oltsen Brothers Inc Chicago IL	312-283-3600
olmberg Electronics Corp Inman SC	803-472-4141
udson Tool & Die Co Newark NJ	201-589-1800
npx Div National Lock Corp	
Crawfordsville IN	317-362-0800
adium Corp of America Ulux NY	315-797-1630
ustrial Electronic Hardware Corp	
New York NY	212-677-1881
strument Specialties Co Inc	
Delaware Water Gap PA	717-424-8510
ternational Electronic Research Corp	
Burbank CA	213-849-2481
an Hardware Mfg Co Inc	
Long Island City NY	212-361-0800
ohnson & Hoffman Mfg Corp	
Carle Place NY	516-742-3333
onard Industries Corp Tuckahoe NY	914-793-0700
en-Tron Mfg Inc Owensboro KY	502-684-0431
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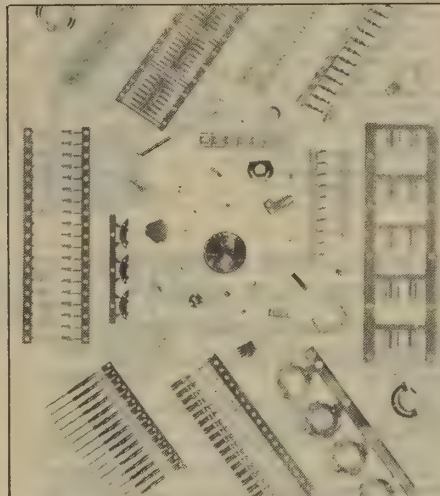
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Kling Laboratories Inc Syracuse NY	315-471-8123
Kington Metal Specialties Kingston PA	717-288-5411
Larsen Precision Components Corp	
New York NY	212-233-2491
lear Siegler Inc Santa Monica CA	213-452-5444
Magnetic Metals Corp Camden NJ	609-964-7842
Malco Div Microdot Inc Montgomeryville PA	215-699-5373
Mark Eyelet Inc Sub AMP Inc Wolcott CT	203-756-8847
Masterite Industries Corp Torrance CA	213-775-3471
Metal Forming Oper GTE Prods Corp	
York PA	717-848-8080
Methode Electronics Inc Interconnect Prods Div	
Rolling Meadows IL	312-392-3500
Micro Contacts Inc Affil Mold-A-Matic Corp	
Hicksville NY	516-433-4830
Minitec Corp Dover NJ	201-989-1426
Mobile Electronics Inc Anderson IN	317-642-7976
Monadnock Co City of Industry CA	818-964-6581
National Tel-Tronics Div Technodyne Inc	
Meadville PA	814-724-6440
Oklahoma Aertronics Inc Hartshorne OK	918-297-2566
Patton-MacGuire Inc Providence RI	401-941-6000
Permonite Mfg Co Palatine IL	312-358-0088
Photofabrication Technology Inc Derry NH	603-432-1200
Plastiglide Mfg Corp Hawthorne CA	213-777-8108
Plastronic Engineering Co Haverhill MA	617-372-7703
Polymetalurgical Corp Attleboro Falls MA	617-695-9312
Precision Metallurgical Corp A Leach & Garner Co	
Attleboro MA	617-226-1200
Ross Co Milton Southampton PA	215-355-0200
Roxter Corp Long Island City NY	212-392-5060
SADA Elettronica SPA Pavia Italy	382-4669 31
Sakas Inc Baltimore OH	814-862-4114
Samtec Inc New Albany IN	812-944-6733
Scientific Alloys Inc Fairfield NJ	201-575-4070
Seastrom Mfg Co Inc Glendale CA	213-245-9121
Selo Metal Products Inc Hawthorne NJ	201-427-9700
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Sessions & Son J H Bristol CT	203-582-3127
Sjoberg & Son Inc Cranston RI	401-461-8220
S K G Associates Inc Norwell MA	617-878-7250
SL Electronics Div SL Ind Inc Westville NJ	609-456-7300
SPC Technology Bensenville IL	312-766-6711
Staffall Inc Providence RI	401-351-8282
Stamet Mfg Corp Fairfield NJ	201-227-2432
Stanley Industrial Hardware Div Stanley Works	
New Britain CT	203-225-5111
Staver Co Inc Bay Shore NY	516-666-8000
Stewart Stamping Corp Yonkers NY	914-965-0816
Stimpson Co Inc Bayport NY	516-472-2000
Suckle Corp Scranton PA	717-346-3871
Tech-Etch Inc Plymouth MA	617-747-0300
Teknological Industries Inc Rochester NY	716-232-1291
Temple Steel Co Niles IL	312-282-9400
Thermalloy Inc Dallas TX	214-243-4321
Titchener & Co E H Binghamton NY	607-772-1161

Upson Tools Inc Rochester NY	716-663-5373
Weiss-Aug Co Inc East Hanover NJ	201-887-7600
Wilkinson Co Westlake Village CA	818-889-0050
Wire Cloth Manufacturers Inc Radolph NJ	201-328-1000
Zero Corp Burbank CA	818-846-4191
Zierick Mfg Corp Mount Kisco NY	914-666-2911
Zims Mfg Co Irvington NJ	201-372-3650

METAL PARTS—THREADED RODS

CONCORD ELECTRONICS CORP	
NEW YORK NY	212-777-6571
SADA ELETTRONICA SPA PAVIA ITALY	382-4669 31
ADV PG 127	
Budd Cato Assoc Inc Brielle NJ	201-528-7439
Concord Electronics Corp New York NY	212-777-6571
Elco Industries Inc Rockford Div Rockford IL	815-397-5151
Federal Screw Products Inc Chicago IL	312-478-5744
GTE Precision Materials Danvers MA	617-777-1900
Luke Line Fasteners Beverly NJ	609-387-1166
PIC Design Middlebury CT	203-758-8272
Russell Burdall & Ward Corp Cleveland OH	216-861-8250
SADA Elettronica SPA Pavia Italy	382-4669 31
Staffall Inc Providence RI	401-351-8282
Standard Insert Co Pacoima CA	818-896-9529
Sterling Instrument Div Designtronics Inc	
New Hyde Park NY	516-328-3300
Titchener & Co E H Binghamton NY	607-772-1161
USECO Div Litton Systems Inc Van Nuys CA	818-786-9381

METAL PARTS—TRIMMINGS

Bruce Plastics Inc Pittsfield MA	412-787-2100
Emporium Specialties Co Inc Austin PA	814-647-8661
GTE Precision Materials Danvers MA	617-777-1900
Heraeus-Volkert Inc Queens Village NY	718-464-8400
Kestler Electronics Temple City CA	818-445-2692
Red Devil Mfg Co Inc Rosemont IL	312-693-4045

METAL PARTS—TUBE (ELECTRON)

See Tube Parts

METAL PARTS—TUBULAR (EXCEPT WAVEGUIDE)

MARK EYELET INC SUB AMP INC	
WOLCOTT CT	203-756-8847
PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA	617-226-1200

Acme Model Engineering Co Ridgefield NJ	201-943-7650
Adams-Russell Modpak Burlington MA	617-273-3330
Auto-Swage Products Inc Shelton CT	203-929-1401
Braxton Mfg Co Inc Watertown CT	203-274-6781
Copperweld Corp Pittsburgh PA	412-727-3070
Degussa Corp So Plainfield NJ	201-757-6500
Engelhard Industries Iselin NJ	201-321-5900
Engineered Plastics Inc Gibsonville NC	919-449-4121
Handy & Harman Tube Co Norristown PA	215-539-3900
Helenor Industries Inc Mt Vernon NY	914-667-3535
Indium Corp of America Utica NY	315-797-1630
Mark Eyelet Inc Sub AMP Inc Wolcott CT	203-756-8847
MuShield Co Malden MA	617-321-4410
NRC Inc Newton MA	617-969-7690
Precision Metallurgical Corp A Leach & Garner Co Attleboro MA	617-226-1200
Precision Tube Co Inc North Wales PA	215-699-5801
Superior Tube Co Norristown PA	215-489-5200
Uniform Tubes Inc Collegeville PA	215-539-0700
Wall Co A T Warwick RI	401-739-0740

METAL PARTS—WIRE, FORMED SMALL PARTS (EXCEPT TUBE PARTS)

GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT CLEVELAND OH	216-266-2451
MICRO CONTACTS INC AFFIL MOLD-A-MATIC CORP HICKSVILLE NY	516-433-4830
ADV PG 259	
PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA	617-226-1200
SADA ELETTRONICA SPA PAVIA ITALY	382-4669 31
ADV PG 127	

Acme Model Engineering Co Ridgefield NJ	201-943-7650
Alpha Metals Inc Jersey City NJ	201-434-6778
Art Wire/Doduco Parsippany NJ	201-428-4880
Atomergic Chemetals Corp Plainview NY	516-349-8800
Autosplice Inc Woodside NY	718-429-0500
Auto-Swage Products Inc Shelton CT	203-929-1401
Bead Electronics Div Bead Chain Mfg Co Bridgeport CT	203-334-4124
Bigelow Components Corp Springfield NJ	201-467-1200
Chomerics Laminates Inc Hudson NH	603-880-4807
Circuit Assembly Corp Irvine CA	714-855-7887
Cominco Electronic Materials Inc Spokane WA	509-924-2200
Continental Precision Stamping Inc Pomona CA	714-594-9014
Deringer Mfg Co Mundelein IL	312-566-4100
Electrical Industries Div Phillips Elctns Inc Murray Hill NJ	201-464-3200
Emporium Specialties Co Inc Austin PA	814-647-8661
Engelhard Industries Iselin NJ	201-321-5900
Fansteel Electrometals North Chicago IL	312-689-4900
General Diode Corp Framingham MA	617-879-0880
Gen Elec Co Glass & Metallurgical Prods Dept Cleveland OH	216-266-2451
GTE Precision Materials Danvers MA	617-777-1900
Handy & Harman Electronic Metals Corp North Attleboro MA	617-695-1401
Henes Products Corp Phoenix AZ	602-275-4126
Indium Corp of America Utica NY	315-797-1630
Johnson & Hoffman Mfg Corp Carle Place NY	516-742-3333
Ken-Tron Mfg Inc Owensboro KY	502-684-0431
King Laboratories Inc Syracuse NY	315-471-8123
Metal Forming Oper GTE Prods Corp York PA	717-848-8080
Micro Contacts Inc Affil Mold-A-Matic Corp Hicksville NY	516-433-4830
Monadnock Co City of Industry CA	818-964-6581
Precision Metallurgical Corp A Leach & Garner Co Attleboro MA	617-226-1200
Ross Co Milton Southampton PA	215-355-0200
SADA Elettronica SpA Pavia Italy	382-4669 31
Samtec Inc New Albany IN	812-944-6733
Sjoberg & Son Inc Cranston RI	401-461-8220
S K G Associates Inc Norwell MA	617-878-7250
Stamet Mfg Corp Fairfield NJ	201-227-2432
Stewart Stamping Corp Yonkers NY	914-965-0816
Teale Machine Co Inc Rochester NY	716-244-6700
Titchener & Co E H Binghamton NY	607-772-1161
Zims Mfg Co Irvington NJ	201-372-3650

Atomergic Chemetals Corp Plainview NY	516-349-8800
Cabot Corp Reading PA	215-371-3600
Cerac Inc Milwaukee WI	414-289-9800
Cotronics Corp Brooklyn NY	718-646-7996
Degussa Corp So Plainfield NJ	201-757-6500
Foot Mineral Co Exton PA	215-363-6500
King Laboratories Inc Syracuse NY	315-471-8123
Mine Safety Appliances Co Pittsburgh PA	412-273-5175
Pfizer Inc Matls Science Prods Grp Specialty Metal Prods Wallingford CT	203-265-7781
SAES Getters/USA Inc Colorado Springs CO	303-576-3200
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp New York NY	212-966-4330

METALS—ALKALINE, COMPOUNDS

See Chemicals

METALS—ALUMINUM FOIL

Adhesives Research Inc Glen Rock PA	717-235-7979
Atomergic Chemetals Corp Plainview NY	516-349-8800
Chomerics Inc Woburn MA	617-935-4850
Cominco Electronic Materials Inc Spokane WA	509-924-2200
Foil Technology Inc Mentor OH	216-974-8118
General Diode Corp Framingham MA	617-879-0880
Hexcel Corp Dublin CA	415-828-4200
Indium Corp of America Utica NY	315-797-1630
Lamart Corp Clifton NJ	201-772-6262
Permaluster Inc Burbank CA	213-849-4543
Projectapix II New York NY	212-765-7869
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Reynolds Metals Co Richmond VA	804-281-2000
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp New York NY	212-966-4330

METALS—ALUMINUM STOCK SHAPES & TUBING

See Also Brazing Alloys; Metal

Tubing—Precision; Waveguide Tubing

Allied Corp Morristown NJ	201-455-6300
Handy & Harman Tube Co Norristown PA	215-539-3900
Helenor Industries Inc Mt Vernon NY	914-667-3535
Kingston Metal Specialties Kingston PA	717-288-5411
Precision Tube Co Inc North Wales PA	215-699-5801
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Reynolds Metals Co Richmond VA	804-281-2000
Stamet Mfg Corp Fairfield NJ	201-227-2432
Wall Co A T Warwick RI	401-739-0740
Zero Corp Burbank CA	818-846-4191

METALS—ANTIMONY

See Metals—Low Melting

METALS—BERYLLIUM

BRUSH WELLMAN INC CLEVELAND OH	216-486-4200
Atomergic Chemetals Corp Plainview NY	516-349-8800
Brush Wellman Inc Cleveland OH	216-486-4200
Cerac Inc Milwaukee WI	414-289-9800
Degussa Corp So Plainfield NJ	201-757-6500
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Soliton Devices Inc Semiconductor Group Riviera Beach FL	305-848-4311
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp New York NY	212-966-4330

METALS—BERYLLIUM COPPER

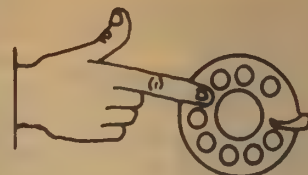
BRUSH WELLMAN INC CLEVELAND OH	216-486-4200
Arnold Engineering Co Marengo IL	815-568-2000
Atomergic Chemetals Corp Plainview NY	516-349-8800
Brush Wellman Inc Cleveland OH	216-486-4200
Cabot Corp Beryllium Prods Busn Unit Reading PA	800-523-8268
Engelhard Industries Iselin NJ	201-321-5900
Materials Research Corp Orangeburg NY	914-359-4200
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Soliton Devices Inc Semiconductor Group Riviera Beach FL	305-848-4311
Stamet Mfg Corp Fairfield NJ	201-227-2432

METALS—BISMUTH

See Metals—Low Melting

METALS—BRASS & BRONZE

BRUSH WELLMAN INC CLEVELAND OH	216-486-4200
Brush Wellman Inc Cleveland OH	216-486-4200
GTE Precision Materials Danvers MA	617-777-1900
Helenor Industries Inc Mt Vernon NY	914-667-3535
Nippon Co Delaware OH	614-363-1981
Pfizer Inc Matls Science Prods Grp Specialty Metal Prods Wallingford CT	203-265-7781
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Wall Co A T Warwick RI	401-739-0740



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Electronics Buyers' Guide

METAL PLATING ANODES

See Plating Anodes

METAL PLATING SERVICES

See Production Services

METAL RECOVERY SERVICES

See Production Services

METALS—ALKALINE (BARIUM, CALCIUM, CESIUM, LITHIUM, POTASSIUM, RUBIDIUM, SODIUM & STRONTIUM)

See Also Chemicals; Metals—Beryllium;

Metals—Magnesium

SAES GETTERS/USA INC COLORADO SPRINGS CO	303-576-3200
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METALS—BRAZING

See Brazing Alloys

METALS—CADMIUM

Atomergic Chemetals Corp Plainview NY	516-349-8800
Cerac Inc Milwaukee WI	414-289-9800
Cominco Electronic Materials Inc Spokane WA	509-924-2200
Engelhard Industries Iselin NJ	201-321-5900
General Diode Corp Framingham MA	617-879-0880
Indium Corp of America Utica NY	315-797-1630
Materials Research Corp Orangeburg NY	914-359-4200
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Sifco Selective Plating Div Sifco Ind Inc Cleveland OH	216-524-0099
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp New York NY	212-966-4330
Varian Corp Burbank CA	818-846-4191

METALS—CHROMIUM

Applied Corp Morristown NJ	201-455-6300
Atomergic Chemetals Corp Plainview NY	516-349-8800
Cerac Inc Milwaukee WI	414-289-9800
Electronics Corp Brooklyn NY	718-646-7996
M Industries Inc Hawthorne NY	914-592-4660
Materials Research Corp Orangeburg NY	914-359-4200
McGean Rohco Inc Cleveland OH	216-441-4900
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Soltron Devices Inc Semiconductor Group Riviera Beach FL	305-848-4311
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp New York NY	212-966-4330
Varian Specialty Metals Div Palo Alto CA	415-493-4000
Varian Corp Burbank CA	818-846-4191

METALS—CLAD

PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA	617-226-1200
ADV PG 261	
Adhesives Research Inc Glen Rock PA	717-235-7979
Alpha Metals Inc Jersey City NJ	201-434-6778
Atomergic Chemetals Corp Plainview NY	516-349-8800
Comerics Laminates Inc Hudson NH	603-880-4807
Cominco Electronic Materials Inc Spokane WA	509-924-2200
Engelhard Industries Iselin NJ	201-321-5900
TE Precision Materials Danvers MA	617-777-1900
TE Technical Products Div Reidsville NC	919-342-2381
Handy & Harman New York NY	212-752-3400
Handy & Harman Electronic Metals Corp North Attleboro MA	617-695-1401
Heraeus-Volkert Inc Queens Village NY	718-464-8400
Indium Corp of America Utica NY	315-797-1630
C O A Garden Grove CA	714-891-3581
Indium Electronic Materials Corp East Alton IL	218-258-3720
Armaulster Inc Burbank CA	213-849-4543
Fizer Inc Metals Science Prods Grp Specialty Metal Prods Wallingford CT	203-265-7781
Polymetallurgical Corp Attleboro Falls MA	617-695-9312
Precision Metallurgical Corp A Leach & Garner Co Attleboro MA	617-226-1200
Stamet Mfg Corp Fairfield NJ	201-227-2432
Supercon Inc Shrewsbury MA	617-842-0174
Technical Materials Inc Lincoln RI	401-333-1700
Tall Co A T Warwick RI	401-739-0740
Williams Gold Refining Co Inc Precious Metals Div Buffalo NY	716-837-1000

METALS—COPPER STOCK SHAPES & TUBING

See Also Metal Tubing—Precision

Handy & Harman Tube Co Norristown PA	215-539-3900
Telenor Industries Inc Mt Vernon NY	914-667-3535
Trippett Co Delaware OH	614-363-1981
Precision Tube Co Inc North Wales PA	215-699-5801
Vail Co A T Warwick RI	401-739-0740

METALS—COPPER FOIL

Arnold Engineering Co Marengo IL	815-568-2000
Atomergic Chemetals Corp Plainview NY	516-349-8800
Comerics Inc Woburn MA	617-935-4850
Cominco Electronic Materials Inc Spokane WA	509-924-2200
General Diode Corp Framingham MA	617-879-0880
Indium Corp of America Utica NY	315-797-1630
Indium Corp of America Utica NY	315-797-1630
Smart Corp Clifton NJ	201-772-6262
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Stamet Mfg Corp Fairfield NJ	201-227-2432
Teledyne Rodney Metals New Bedford MA	617-996-5691
United Mineral & Chemical Corp New York NY	212-966-4330
Wilkinson Co Westlake Village CA	818-889-0050

METALS—FOIL

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See Also Magnetic Foil; Shielding

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METALS—GLASS SEALING ALLOYS

Active Alloys Inc Elizabeth NJ	201-351-9500
Allegheny Ludlum Steel Corp Pittsburgh PA	412-394-2800
Arnold Engineering Co Marengo IL	815-568-2000
Carpenter Technology Corp Reading PA	215-371-2000
Engelhard Industries Iselin NJ	201-321-5900
Fusite Div Emerson Electric Co Cincinnati OH	513-731-2020
GTE Precision Materials Danvers MA	617-777-1900
Handy & Harman Tube Co Norristown PA	215-539-3900
Indium Corp of America Utica NY	315-797-1630
Magnetics Div Spang Co Butler PA	412-282-8282
Pfizer Inc Metals Science Prods Grp Specialty Metal Prods Wallingford CT	203-265-7781
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Stamet Mfg Corp Fairfield NJ	201-227-2432
Teledyne Rodney Metals New Bedford MA	617-996-5691
Vail Co A T Warwick RI	401-739-0740
Wilkinson Co Westlake Village CA	818-889-0050

METALS—GOLD

PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA	617-226-1200
ADV PG 261	
Atomergic Chemetals Corp Plainview NY	516-349-8800
Cerac Inc Milwaukee WI	414-289-9800
Cominco Electronic Materials Inc Spokane WA	509-924-2200
Degussa Corp So Plainfield NJ	201-757-6500
Eastern Smelting & Refining Corp Lynn MA	617-599-9000
Emulstone Co Whippary NJ	201-386-0053
Engelhard Industries Iselin NJ	201-321-5900
Garfield Industries Philadelphia PA	215-743-4653
General Diode Corp Framingham MA	617-879-0880
Handy & Harman New York NY	212-752-3400
Heraeus-Volkert Inc Queens Village NY	718-464-8400
Indium Corp of America Utica NY	315-797-1630
Materials Research Corp Orangeburg NY	914-359-4200
Olin Electronic Materials Corp East Alton IL	618-258-3720
Precision Metallurgical Corp A Leach & Garner Co Attleboro MA	617-226-1200
Scientific Alloys Inc Fairfield NJ	201-575-4070
Sel-Rex/OMI Intl Corp Nutley NJ	201-667-5200
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Sifco Selective Plating Div Sifco Ind Inc Cleveland OH	216-524-0099
Soltron Devices Inc Semiconductor Group Riviera Beach FL	305-848-4311
Stamet Mfg Corp Fairfield NJ	201-227-2432
Swift & Sons Inc M Hartford CT	203-522-1181
Technology Glass Div Union City CA	415-487-5860
United Mineral & Chemical Corp New York NY	212-966-4330

Varian Specialty Metals Div Palo Alto CA	415-493-4000
Wilkinson Co Westlake Village CA	818-889-0050
Williams Gold Refining Co Inc Precious Metals Div Buffalo NY	716-837-1000

METALS—INDIUM

See Metals—Low Melting

See Also Solder

METALS—LEAD

See Also Solder

Alpha Metals Inc Jersey City NJ	201-434-6778
Atomergic Chemetals Corp Plainview NY	516-349-8800
Cerac Inc Milwaukee WI	414-289-9800
Cominco Electronic Materials Inc Spokane WA	509-924-2200
Gardiner Solder Co Chicago IL	312-847-0100
General Diode Corp Framingham MA	617-879-0880
Indium Corp of America Utica NY	315-797-1630
Kester Solder Div Litton Sys Inc Chicago IL	312-235-1600
Materials Research Corp Orangeburg NY	914-359-4200
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Stamet Mfg Corp Fairfield NJ	201-227-2432
Technical Materials Inc Lincoln RI	401-333-1700
United Mineral & Chemical Corp New York NY	212-966-4330

METALS—LOW MELTING (INCL. ANTIMONY, BISMUTH & INDIUM)

HUNTER PRODUCTS INC BRIDGEWATER NJ	201-526-8440
Alpha Metals Inc Jersey City NJ	201-434-6778
Atomergic Chemetals Corp Plainview NY	516-349-8800
Cominco Electronic Materials Inc Spokane WA	509-924-2200
Degussa Corp So Plainfield NJ	201-757-6500
Eagle-Picher Industries Inc Quapaw OK	918-673-1650
Gardiner Solder Co Chicago IL	312-847-0100
General Diode Corp Framingham MA	617-879-0880
Hunter Products Inc Bridgewater NJ	201-526-8440
Indium Corp of America Utica NY	315-797-1630
Kester Solder Div Litton Sys Inc Chicago IL	312-235-1600
Materials Research Corp Orangeburg NY	914-359-4200
McGean Rohco Inc Cleveland OH	216-441-4900
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Sifco Selective Plating Div Sifco Ind Inc Cleveland OH	216-524-0099

For ADVERTISERS' CATALOGS see Directory of Catalogs (white pages)

Stamet Mfg Corp Fairfield NJ.....	201-227-2432
United Mineral & Chemical Corp New York NY.....	212-966-4330
Universal Photonics Inc Hicksville NY.....	516-935-4000

METALS—MAGNESIUM

Allied Corp Morristown NJ.....	201-455-6300
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Cerac Inc Milwaukee WI.....	414-289-9800
Dow Chemical Co Midland MI.....	517-636-1000
General Diode Corp Framingham MA.....	617-879-0880
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
United Mineral & Chemical Corp New York NY.....	212-966-4330
Zero Corp Burbank CA.....	818-846-4191

METALS—MAGNETIC**See Cores; Iron & Iron Oxide Powder; Magnetic****Foil; Metals—Steel, Electric; Shielding****METALS—MAGNETOSTRICTIVE ALLOYS**

Arnold Engineering Co Marengo IL.....	815-568-2000
Carpenter Technology Corp Reading PA.....	215-371-2000
Inter-Technical Group Inc Irvington NY.....	914-591-8822
Magnetics Div Spang Co Butler PA.....	412-282-8282
Materials Research Corp Orangeburg NY.....	914-359-4200
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
SL Electronics Div SL Ind Inc Westville NJ.....	609-456-7300
Stamet Mfg Corp Fairfield NJ.....	201-227-2432

METALS—MANGANESE

Allied Corp Morristown NJ.....	201-455-6300
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Cerac Inc Milwaukee WI.....	414-289-9800
Cotronics Corp Brooklyn NY.....	718-646-7996
Footco Mineral Co Exton PA.....	215-363-6500
General Diode Corp Framingham MA.....	617-879-0880
Materials Research Corp Orangeburg NY.....	914-359-4200
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
United Mineral & Chemical Corp New York NY.....	212-966-4330

METALS—MERCURY

SAES GETTERS/USA INC COLORADO SPRINGS CO.....	303-576-3200
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Cerac Inc Milwaukee WI.....	414-289-9800
Cominco Electronic Materials Inc Spokane WA.....	509-924-2200
Garfield Industries Philadelphia PA.....	215-743-4653
General Diode Corp Framingham MA.....	617-879-0880
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
SAES Getters/USA Inc Colorado Springs CO.....	303-576-3200
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
United Mineral & Chemical Corp New York NY.....	212-966-4330

METALS—MOLYBDENUM

GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT CLEVELAND OH.....	216-266-2451
Active Alloys Inc Elizabeth NJ.....	201-351-9500
Arnold Engineering Co Marengo IL.....	815-568-2000
Associates Electronics & Mfg Corp Upper Montclair NJ.....	201-783-7800
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Bel-Ray Co Inc Farmingdale NJ.....	201-938-2421
Cerac Inc Milwaukee WI.....	414-289-9800
C M Inc Bloomfield NJ.....	201-338-6500
Cominco Electronic Materials Inc Spokane WA.....	509-924-2200
Cotronics Corp Brooklyn NY.....	718-646-7996
Cross Co H Weehawken NJ.....	201-863-1134
Engelhard Industries Iselin NJ.....	201-321-5900
Fansteel Electrometals North Chicago IL.....	312-689-4900
Gen Elec Co Glass & Metallurgical Prods Dept Cleveland OH.....	216-266-2451
GTE Precision Materials Danvers MA.....	617-777-1900
Materials Research Corp Orangeburg NY.....	914-359-4200
Phillips Elmet Corp Lewiston ME.....	207-784-3591
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
Semicon Associates Inc Lexington KY.....	606-255-3664
Semiconductor Mfg Corp Fairfield NJ.....	201-227-2432
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
United Mineral & Chemical Corp New York NY.....	212-966-4330

METALS—MONEL

OMEGA ENGINEERING INC STAMFORD CT.....	203-359-1660
ADV PG Gatefold	
Active Alloys Inc Elizabeth NJ.....	201-351-9500
Arnold Engineering Co Marengo IL.....	815-568-2000
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Carpenter Technology Corp Reading PA.....	215-371-2000
Cerac Inc Milwaukee WI.....	414-289-9800
Chomerics Inc Woburn MA.....	617-935-4850
Omega Engineering Inc Stamford CT.....	203-359-1660

Pfizer Inc Matls Science Prods Grp Specialty Metal Prods Wallingford CT.....	203-265-7781
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Teledyne Rodney Metals New Bedford MA.....	617-996-5691
Wall Co A T Warwick RI.....	401-739-0740

METALS—NICKEL

BRUSH WELLMAN INC CLEVELAND OH.....	216-486-4200
Active Alloys Inc Elizabeth NJ.....	201-351-9500
Ad-Vance Magnetics Inc Rochester IN.....	219-223-3158
Allied Corp Morristown NJ.....	201-455-6300
Arnold Engineering Co Marengo IL.....	815-568-2000
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Brush Wellman Inc Cleveland OH.....	216-486-4200
Carpenter Technology Corp Reading PA.....	215-371-2000
Cerac Inc Milwaukee WI.....	414-289-9800
Engelhard Industries Iselin NJ.....	201-321-5900
General Diode Corp Framingham MA.....	617-879-0880
GTE Precision Materials Danvers MA.....	617-777-1900
Handy & Harman Tube Co Norristown PA.....	215-539-3900
Magnetics Div Spang Co Butler PA.....	412-282-8282
Materials Research Corp Orangeburg NY.....	914-359-4200
McGean Rohco Inc Cleveland OH.....	216-441-4900
Pfizer Inc Matls Science Prods Grp Specialty Metal Prods Wallingford CT.....	203-265-7781
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
Sel-Rex/OMI Intl Corp Nutley NJ.....	201-667-5200
SL Electronics Div SL Ind Inc Westville NJ.....	609-456-7300
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Teledyne Rodney Metals New Bedford MA.....	617-996-5691
United Mineral & Chemical Corp New York NY.....	212-966-4330
Wall Co A T Warwick RI.....	401-739-0740
Wilkinson Co Westlake Village CA.....	818-889-0050

METALS—NIOBIUM

PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA.....	617-226-1200
ADV PG 261	
Active Alloys Inc Elizabeth NJ.....	201-351-9500
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Cabot Corp Reading PA.....	215-371-3600
Cerac Inc Milwaukee WI.....	414-289-9800
Cross Co H Weehawken NJ.....	201-863-1134
Engelhard Industries Iselin NJ.....	201-321-5900
General Diode Corp Framingham MA.....	617-879-0880
Materials Research Corp Orangeburg NY.....	914-359-4200
Precision Metallurgical Corp A Leach & Garner Co Attleboro MA.....	617-226-1200
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
United Mineral & Chemical Corp New York NY.....	212-966-4330

METALS—PALLADIUM**See Metals—Platinum Metals****METALS—PERFORATED & EXPANDED SHEETS**

Electrical Industries Div Philips Elctns Inc Murray Hill NJ.....	201-464-3200
Kingston Metal Specialties Kingston PA.....	717-288-5411
Pfizer Inc Matls Science Prods Grp Specialty Metal Prods Wallingford CT.....	203-265-7781
Wire Cloth Manufacturers Inc Radolph NJ.....	201-328-1000

METALS—PLATINUM METALS (INCL. PALLADIUM & PHODIUM)

PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA.....	617-226-1200
ADV PG 261	
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Cerac Inc Milwaukee WI.....	414-289-9800
Degussa Corp So Plainfield NJ.....	201-757-6500
Eastern Smelting & Refining Corp Lynn MA.....	617-599-9000
Emulsitone Co Whippany NJ.....	201-386-0053
Engelhard Industries Iselin NJ.....	201-321-5900
Garfield Industries Philadelphia PA.....	215-743-4653
General Diode Corp Framingham MA.....	617-879-0880
GTE Technical Products Div Reidsville NC.....	919-342-2381
Handy & Harman New York NY.....	212-752-3400
Heraeus-Volkert Inc Queens Village NY.....	718-464-8400
Materials Research Corp Orangeburg NY.....	914-359-4200
Polysciences Inc Warrington PA.....	215-343-6484
Precision Metallurgical Corp A Leach & Garner Co Attleboro MA.....	617-226-1200
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
Scientific Alloys Inc Fairfield NJ.....	201-575-4070
Sel-Rex/OMI Intl Corp Nutley NJ.....	201-667-5200
Semiconductor Mfg Corp Fairfield NJ.....	201-227-2432
Semiconductor Packaging Materials Co Mamaroneck NY.....	914-698-5353
Sifco Selective Plating Div Sifco Ind Inc Cleveland OH.....	216-524-0099
Solltron Devices Inc Semiconductor Group Riviera Beach FL.....	305-848-4311
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
United Mineral & Chemical Corp New York NY.....	212-966-4330
Varian Specialty Metals Div Palo Alto CA.....	415-493-4000
Wilkinson Co Westlake Village CA.....	818-889-0050
Williams Gold Refining Co Inc Precious Metals Div Buffalo NY.....	716-837-1000

METALS—RARE EARTH**See Rare Earths****METALS—SEMICONDUCTOR****See Semiconductors****METALS—SHIELDING****See Shielding****METALS—SILVER****See Also Brazing Alloys****PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA.....**

ADV PG 261	
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Cerac Inc Milwaukee WI.....	414-289-9800
Cominco Electronic Materials Inc Spokane WA.....	509-924-2200
Degussa Corp So Plainfield NJ.....	201-757-6500
Eastern Smelting & Refining Corp Lynn MA.....	617-599-9000
Engelhard Industries Iselin NJ.....	201-321-5900
Garfield Industries Philadelphia PA.....	215-743-4653
General Diode Corp Framingham MA.....	617-879-0880
GTE Technical Products Div Reidsville NC.....	919-342-2381
Heraeus-Volkert Inc Queens Village NY.....	718-464-8400
Indium Corp of America Utica NY.....	315-797-1631
Kester Solder Div Litton Sys Inc Chicago IL.....	312-235-1601
Materials Research Corp Orangeburg NY.....	914-359-4200
Olin Electronic Materials Corp East Aitton IL.....	618-258-3722
Precision Metallurgical Corp A Leach & Garner Co Attleboro MA.....	617-226-1200
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
Scientific Alloys Inc Fairfield NJ.....	201-575-4070
Semiconductor Mfg Corp Fairfield NJ.....	201-227-2432
Semiconductor Packaging Materials Co Mamaroneck NY.....	914-698-5353
Sifco Selective Plating Div Sifco Ind Inc Cleveland OH.....	216-524-0099
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Wall Co A T Warwick RI.....	401-739-0740
Wilkinson Co Westlake Village CA.....	818-889-0050
Williams Gold Refining Co Inc Precious Metals Div Buffalo NY.....	716-837-1000

METALS—SOLDER**See Solder****METALS—STEEL, ELECTRIC (FOR CORES)**

Active Alloys Inc Elizabeth NJ.....	201-351-9500
Allegheny Ludlum Steel Corp Pittsburgh PA.....	412-394-2800
Armco Middletown OH.....	800-231-374
Arnold Engineering Co Marengo IL.....	815-568-2000
Carpenter Technology Corp Reading PA.....	215-371-2000
Magnetic Metals Corp Camden NJ.....	609-964-784
Magnetics Div Spang Co Butler PA.....	412-282-8282
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
SL Electronics Div SL Ind Inc Westville NJ.....	609-456-7300
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Teledyne Rodney Metals New Bedford MA.....	617-996-5691
Tempel Steel Co Niles IL.....	312-282-9400
Uddeholm Corp Totowa NJ.....	201-785-8500

METALS—STEEL, STAINLESS STOCK SHAPES**See Also Metal Tubing—Precision**

Active Alloys Inc Elizabeth NJ.....	201-351-9500
Allegheny Ludlum Steel Corp Pittsburgh PA.....	412-394-2800
Armco Middletown OH.....	800-231-374
Arnold Engineering Co Marengo IL.....	815-568-2000
Carpenter Technology Corp Reading PA.....	215-371-2000
Handy & Harman Tube Co Norristown PA.....	215-539-3900
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Teledyne Rodney Metals New Bedford MA.....	617-996-5691
Wire Cloth Manufacturers Inc Radolph NJ.....	201-328-1000
Armco Middletown OH.....	800-231-374
Copperweld Corp Pittsburgh PA.....	412-777-3000
Handy & Harman Tube Co Norristown PA.....	215-539-3900
Simonds Cutting Tools Household Intl Fitchburg MA.....	617-343-3737
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Superior Tube Co Norristown PA.....	215-489-5200
Wall Co A T Warwick RI.....	401-739-0740

METALS—TANTALUM

OMEGA ENGINEERING INC STAMFORD CT.....	203-359-1660
ADV PG Gatefold	

Active Alloys Inc Elizabeth NJ.....	201-351-9500
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Cerac Inc Milwaukee WI.....	215-371-3600
Cerac Inc Milwaukee WI.....	414-289-9800
Cross Co H Weehawken NJ.....	201-863-1134
General Diode Corp Framingham MA.....	617-879-0880
Materials Research Corp Orangeburg NY.....	914-359-4200
ARC Inc Newton MA.....	617-969-7680
Omega Engineering Inc Stamford CT.....	203-359-1660
Read Metals & Minerals Corp Rumson NJ.....	201-842-2294
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
United Mineral & Chemical Corp.....	
New York NY.....	212-966-4330
Varian Specialty Metals Div Palo Alto CA.....	415-493-4000

METALS—THERMAL COEFFICIENT (INCL. BIMETALS)

Allegheny Ludlum Steel Corp Pittsburgh PA.....	412-394-2800
Chromics Laminates Inc Hudson NH.....	603-880-4807
GTE Precision Materials Danvers MA.....	617-777-1900
GTE Technical Products Div Reidsville NC.....	919-342-2381
Pfizer Inc Matts Science Prods Grp Specialty Metal Prods.....	
Wallingford CT.....	203-265-7781
Precision Metallurgical Corp Attleboro Falls MA.....	617-695-9312
Read Metals & Minerals Corp Rumson NJ.....	201-842-2294
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Wall Co A T Warwick RI.....	401-739-0740

METALS—TIN

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Alpha Metals Inc Jersey City NJ.....	201-434-6778
Cerac Inc Milwaukee WI.....	414-289-9800
Cominco Electronic Materials Inc.....	
Spokane WA.....	509-924-2200
Union Co M W West Warwick RI.....	401-821-1832
Superior Solder Co Chicago IL.....	312-847-0100
General Diode Corp Framingham MA.....	617-879-0880
Indium Corp of America Utica NY.....	315-797-1630
Esoter Solder Div Litton Sys Inc Chicago IL.....	312-235-1600
Materials Research Corp Orangeburg NY.....	914-359-4200
Read Metals & Minerals Corp Rumson NJ.....	201-842-2294
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Technical Materials Inc Lincoln RI.....	401-333-1700
United Mineral & Chemical Corp.....	
New York NY.....	212-966-4330

METALS—THORIUM & THORIUM OXIDE

Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Cerac Inc Milwaukee WI.....	414-289-9800
General Diode Corp Framingham MA.....	617-879-0880
Read Metals & Minerals Corp Rumson NJ.....	201-842-2294
Stamet Mfg Corp Fairfield NJ.....	201-227-2432

METALS—TITANIUM

Active Alloys Inc Elizabeth NJ.....	201-351-9500
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Cerac Inc Milwaukee WI.....	414-289-9800
Dequssa Corp So Plainfield NJ.....	201-757-6500
General Diode Corp Framingham MA.....	617-879-0880
Materials Research Corp Orangeburg NY.....	914-359-4200
Read Metals & Minerals Corp Rumson NJ.....	201-842-2294
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Superior Tube Co Norristown PA.....	215-489-5200
Eledyne Rodney Metals New Bedford MA.....	617-996-5691
Imet Pittsburgh PA.....	412-262-4200
United Mineral & Chemical Corp.....	
New York NY.....	212-966-4330

METALS—TUNGSTEN

EN ELEC CO GLASS & METALLURGICAL PRODS DEPT CLEVELAND OH.....	216-266-2451
MEGA ENGINEERING INC STAMFORD CT.....	203-359-1660
ADV PG Gatefold.....	
Active Alloys Inc Elizabeth NJ.....	201-351-9500
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Cerac Inc Milwaukee WI.....	414-289-9800
M Inc Bloomfield NJ.....	201-338-6500
Cross Co H Weehawken NJ.....	201-863-1134
Ansteel Electrometals North Chicago IL.....	312-689-4900
General Diode Corp Framingham MA.....	617-879-0880
EN ELEC CO Glass & Metallurgical Prods Dept Cleveland OH.....	216-266-2451
GTE Precision Materials Danvers MA.....	617-777-1900
Materials Research Corp Orangeburg NY.....	914-359-4200
Omega Engineering Inc Stamford CT.....	203-359-1660
Hilips Elmet Corp Lewiston ME.....	207-784-3591
Read Metals & Minerals Corp Rumson NJ.....	201-842-2294
Emicon Associates Inc Lexington KY.....	606-255-3664
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
United Mineral & Chemical Corp.....	
New York NY.....	212-966-4330

METALS—ULTRA PURE

PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA.....	617-226-1200
ADV PG 261.....	
Alpha Metals Inc Jersey City NJ.....	201-434-6778

For addresses, phones & sales offices, see green pages

Aremco Products Inc Ossining NY.....	914-762-0685
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Cerac Inc Milwaukee WI.....	414-289-9800
Cominco Electronic Materials Inc.....	
Spokane WA.....	509-924-2200
Cotronics Corp Brooklyn NY.....	718-646-7996
Eagle-Picher Industries Inc Quapaw OK.....	918-673-1650
EM Industries Inc Hawthorne NJ.....	914-592-4660
Engelhard Industries Iselin NJ.....	201-321-5900
General Diode Corp Framingham MA.....	617-879-0880
GTE Lighting Products Danvers MA.....	617-777-1900
Indium Corp of America Utica NY.....	315-797-1630
Kester Solder Div Litton Sys Inc Chicago IL.....	312-235-1600
Leybold-Heraeus Technologies Inc San Jose CA.....	408-294-7759
Magnetics Div Spang Co Butler PA.....	412-282-8282
Materials Research Corp Orangeburg NY.....	914-359-4200
NRC Inc Newton MA.....	617-969-7690
Pfizer Inc Matts Science Prods Grp Specialty Metal Prods.....	
Wallingford CT.....	203-265-7781
Polysciences Inc Warrington PA.....	215-343-6484
Precision Metallurgical Corp A Leach & Garner Co Attleboro MA.....	617-226-1200
Read Metals & Minerals Corp Rumson NJ.....	201-842-2294
Scientific Alloys Inc Fairfield NJ.....	201-575-4070
Semiconductor Mfg Corp Fairfield NJ.....	201-227-2432
Semiconductor Packaging Materials Co Mamaroneck NY.....	914-698-5353
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Swift & Sons Inc M Hartford CT.....	203-522-1181
Synthatron Corp Parsippany NJ.....	201-335-5000
United Mineral & Chemical Corp.....	
New York NY.....	212-966-4330
Varian Specialty Metals Div Palo Alto CA.....	415-493-4000
Wilkinson Co Westlake Village CA.....	818-889-0050

METALS—VACUUM DEPOSITION

See Metal Listings; Plastic Parts—Metalized;

Production Services—Metalizing; Vacuum

Sputtering Targets

METALS—ZINC

Allied Corp Morristown NJ.....	201-455-6300
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Cerac Inc Milwaukee WI.....	414-289-9800
Cominco Electronic Materials Inc.....	
Spokane WA.....	509-924-2200
General Diode Corp Framingham MA.....	617-879-0880
Indium Corp of America Utica NY.....	315-797-1630
Materials Research Corp Orangeburg NY.....	914-359-4200
Read Metals & Minerals Corp Rumson NJ.....	201-842-2294
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
United Mineral & Chemical Corp.....	
New York NY.....	212-966-4330

METALS—ZIRCONIUM

SAES GETTERS/USA INC COLORADO SPRINGS CO.....	303-576-3200
Active Alloys Inc Elizabeth NJ.....	201-351-9500
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Cerac Inc Milwaukee WI.....	414-289-9800
Cross Co H Weehawken NJ.....	201-863-1134
Dequssa Corp So Plainfield NJ.....	201-757-6500
General Diode Corp Framingham MA.....	617-879-0880
GTE Precision Materials Danvers MA.....	617-777-1900
Materials Research Corp Orangeburg NY.....	914-359-4200
Read Metals & Minerals Corp Rumson NJ.....	201-842-2294
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
United Mineral & Chemical Corp.....	
New York NY.....	212-966-4330

METAL TUBE PARTS

See Metal Parts—Tubular; Tube Parts (Electron

Tube)

METAL TUBING—PRECISION

BRUSH WELLMAN INC CLEVELAND OH.....	216-486-4200
Active Alloys Inc Elizabeth NJ.....	201-351-9500
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Braxton Mfg Co Inc Watertown CT.....	203-274-6781
Brush Wellman Inc Cleveland OH.....	216-486-4200
Cabot Corp Beryllium Prods Busn Unit Reading PA.....	800-523-8268
Carpenter Technology Corp Reading PA.....	215-371-2000
Copperweld Corp Pittsburgh PA.....	412-777-3070
Engelhard Industries Iselin NJ.....	201-321-5900
Handy & Harman Tube Co Norristown PA.....	215-539-3900
Helenor Industries Inc Mt Vernon NY.....	914-667-3535
Microwave Development Labs Inc Natick MA.....	617-655-0060
Pfizer Inc Matts Science Prods Grp Specialty Metal Prods.....	
Wallingford CT.....	203-265-7781
Precision Tube Co Inc North Wales PA.....	215-699-5801
Superior Tube Co Norristown PA.....	215-489-5200
Uniform Tubes Inc Collegeville PA.....	215-539-0700
Wall Co A T Warwick RI.....	401-739-0740

METAL WIRE—BARE

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METEROLOGICAL EQUIPMENT

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Barometers

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Communications Systems—Telemetry

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Radarsondes

Radar Systems—Ground, Weather

Radiosondes

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METER CALIBRATION EQUIPMENT

See Calibrators; Standards

METER COIL FORMS

See Coil Forms

METER MOVEMENTS

MODUTEC INC NORWALK CT.....	203-853-3636
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
A & D Electrical Instruments Glendale NY.....	718-275-6516
A & M Instrument Inc Rockville Centre NY.....	516-678-6960
Bartlett Instrument Co Fort Madison IA.....	319-372-8366
Calibron Instruments Div Burton-Rogers Co Waltham MA.....	617-894-6440
Caltamp Instrument Inc Escondido CA.....	714-743-2800
Crompton Instruments Inc.....	
Elk Grove Village IL.....	312-593-1107
Dixon Inc Grand Junction CO.....	303-242-8863
E I L Instruments Inc Sparks MD.....	301-771-4800
Faria Corp Thos G Uncasville CT.....	203-848-9271
Hickok Electrical Instrument Co Cleveland OH.....	216-541-8060
Hoyt Electrical Instrument Wks Inc Penacook NH.....	603-753-6321
Imtronics Industries Ltd St Petersburg FL.....	813-577-9010
International Instruments Div Gen Resistance Inc North Branford CT.....	203-481-3450
Jewell Electrical Instruments Inc.....	
Manchester NH.....	603-669-6400
LFE Corp Instruments Div Clinton MA.....	617-835-1000
Modutec Inc Norwalk CT.....	203-853-3636
Montevideo Technology Inc Montevideo MN.....	612-269-6662
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Simpson Electric Co Elgin IL.....	312-697-2260

METER RELAY

NEWPORT ELECTRONICS INC SANTA ANA CA.....	714-540-4914
Crompton Instruments Inc.....	
Elk Grove Village IL.....	312-593-1107
Extex Instruments & Cont Div Waltham MA.....	617-890-7440
International Instruments Div Gen Resistance Inc North Branford CT.....	203-481-3450
International Microtronics Corp Tucson AZ.....	602-748-7900
Jewell Electrical Instruments Inc.....	
Manchester NH.....	603-669-6400
LFE Corp Instruments Div Clinton MA.....	617-835-1000
Newport Electronics Inc Santa Ana CA.....	714-540-4914
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
Simpson Electric Co Elgin IL.....	312-697-2260

METER SHUNTS

ELECTRONIC PRECISION COMPONENTS CORP MT VERNON NY.....	914-664-2333
JANCO CORP BURBANK CA.....	818-846-1800
MODUTEC INC NORWALK CT.....	203-853-3636
SENSITIVE RESEARCH INSTRUMENTS MT VERNON NY.....	914-699-9717
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
A & D Electrical Instruments Glendale NY.....	718-275-6516
A & M Instrument Inc Rockville Centre NY.....	516-678-6960
Anasco Corp Wakefield MA.....	617-246-3300
Ballantine Laboratories Inc Bonton NJ.....	201-335-0900
Bartlett Instrument Co Fort Madison IA.....	319-372-8366
Calibron Instruments Div Burton-Rogers Co Waltham MA.....	617-894-6440
Caltamp Instrument Inc Escondido CA.....	714-743-2800
Crompton Instruments Inc.....	
Elk Grove Village IL.....	312-593-1107
E I L Instruments Inc Sparks MD.....	301-771-4800
Electrical Instrument Service Inc Mt Vernon NY.....	914-699-9717
Electronic Precision Components Corp Mt Vernon NY.....	914-664-2333
Empro Mfg Co Inc Indianapolis IN.....	317-823-4478
Epoch Enterprises Ltd Tucson AZ.....	602-887-1970
Hoyt Electrical Instrument Wks Inc Penacook NH.....	603-753-6321
International Microtronics Corp Tucson AZ.....	602-748-7900
Janco Corp Burbank CA.....	818-846-1800
LFE Corp Instruments Div Clinton MA.....	617-835-1000
Modutec Inc Norwalk CT.....	203-853-3636
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
Ram Meter Inc Ferndale MI.....	313-398-6767
Sensitive Research Instruments Mt Vernon NY.....	914-699-9717
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Simpson Electric Co Elgin IL.....	312-697-2260
Triplett Corp/A Penril Div Bluffton OH.....	419-358-5015

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METERS—AC HOUR

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ADV PG 264

METERS—AMPERE HOURS, DC

CLARKE-HESS COMMUNICATIONS RESEARCH
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CURTIS INSTRUMENTS INC
MT KISCO NY 914-666-2971
ADV PG 264
SAGER HINGHAM MA 617-749-6700
ADV PGS Green Pages/Footstrips
A & D Electrical Instruments Glendale NY 718-275-6516
Borg Instruments Inc Delavan WI 414-728-5531
Clarke-Hess Communications Research
New York NY 212-255-2940
CNI Inc Orefield PA 215-395-6444
Curtis Instruments Inc Mt Kisco NY 914-666-2971
E I L Instruments Inc Sparks MD 301-771-4800

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	1003	Bi-	Low	AC
	1007	Bi-	High	AC
Power / time DC KW-HRS (25V-200V / 1A-500A)	1008	Uni-	Low	AC
	1009	Bi-	Low	AC
	1010	Bi-	High	AC



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U.K., 51 GRAFTON STREET
NORTHAMPTON, NN1 2NT, ENGLAND

Gulton Industries Inc Engrd Magnetics Div
Hawthorne CA 213-679-0111
H B S Equipment Corp Los Angeles CA 213-726-3033
International Instruments Div Gen Resistance Inc
North Branford CT 203-481-3450
International Microtronics Corp Tucson AZ 602-748-7900
North Hills Electronics Inc Glen Cove NY 516-671-5700
Ohio Semiconductors Inc Columbus OH 614-486-9561
Pioneer Instrumentation Div Pioneer Std
Cleveland OH 216-587-3600
Sager Hingham MA 617-749-6700
Sifco Selective Plating Div Sifco Ind Inc
Cleveland OH 216-524-0099
Solarex Corp Rockville MD 301-948-0202

METERS—ATTENUATION

Anascope Corp Wakefield MA 617-246-3300
Dragnet Technologies Inc Edison NJ 201-287-3680
Foundation Instruments Inc Nepean ON 613-226-4000
Genstar Rental Electronics Inc
Woodland Hills CA 818-887-4000
Harris Corp Govt Support Sys Div
Syosset NY 516-364-0400

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Tel. 201-584-1077

Maury Microwave Corp Cucamonga CA 714-987-471
Racal-Dana Instruments Inc Irvine CA 714-859-899
Simpson Electric Co Elgin IL 312-697-226
Wandel & Goltermann Inc
Research Triangle Pk NC 919-544-8451

METERS—CAPACITANCE/INDUCTANCE

BOONTON ELECTRONICS CORP
RANDOLPH NJ 201-584-107
ADV PG 264
FIDELITY TECH INC EDISON NJ 201-549-572
IET LABS INC WESTBURY NY 516-334-595
INTERNATIONAL INSTRUMENTATION INC
WESTLAKE VILLAGE CA 818-991-96
AEMC Corp Boston MA 617-451-02
Analogic Corp Peabody MA 617-532-566
Anascope Corp Wakefield MA 617-246-3300
Andeen-Hagerling Inc Chagrin Falls OH 216-349-037
Beckman Industrial Corp Brea CA 714-871-484
B & K Precision Products Dynascan Corp
Chicago IL 312-889-908
Boonton Electronics Corp Randolph NJ 201-584-107
Data Precision Div Analogic Danvers MA 617-246-1601
Electro Scientific Industries Inc Portland OR 503-641-414
Exttech Instruments & Cont Div Waltham MA 617-890-744
Fidelity Tech Inc Edison NJ 201-549-572
Gen Rad Inc Waltham MA 617-369-440
Genstar Rental Electronics Inc
Woodland Hills CA 818-887-4000
Global Specialties Corp New Haven CT 203-624-310
Hewlett-Packard Palo Alto CA 415-857-8001
Hickok Electrical Instrument Co Cleveland OH 216-541-8006
IET Labs Inc Westbury NY 516-334-595
International Instrumentation Inc
Westlake Village CA 818-991-961
International Instruments Div Gen Resistance Inc
North Branford CT 203-481-3450
Mechanical Technology Inc Latham NY 518-785-221
Micro Instrument Co Escondido CA 619-746-2011
MSI Electronics Inc Woodside NY 718-672-6501
North American Soar Corp Cherry Hill NJ 609-488-1061
Pioneer Instrumentation Div Pioneer Std
Cleveland OH 216-587-3601
Racal-Dana Instruments Inc Irvine CA 714-859-899
RE Instruments Corp Westlake OH 216-871-761
Sencore Inc Sioux Falls SD 605-339-0101
Tektronix Inc Beaverton OR 800-547-671

METERS—CONDUCTIVITY

IET LABS INC WESTBURY NY 516-334-595
OMEGA ENGINEERING INC
STAMFORD CT 203-359-166
ADV PG Gatefold
Analogic Corp Peabody MA 617-532-566
Beckman Industrial Corp Brea CA 714-871-484
Biddle Instruments-Sensitek Blue Bell PA 215-646-9201
Cambridge Scientific Industries
Cambridge MD 301-228-511
E I L Instruments Inc Sparks MD 301-771-480
Eitel Mfg Inc Laguna Beach CA 714-494-201
Electro Scientific Industries Inc Portland OR 503-641-414
Exttech Instruments & Cont Div Waltham MA 617-890-744
Fluke Mfg Co Inc John Everitt WA 206-356-540
The Foxboro Co Foxboro MA 617-543-875
Gam Rad West Inc Garden Grove CA 714-554-077
Gen Rad Inc Waltham MA 617-369-440
Genstar Rental Electronics Inc
Woodland Hills CA 818-887-4001
Hewlett-Packard Palo Alto CA 415-857-8001
IET Labs Inc Westbury NY 516-334-595
Interlab Inc Danbury CT 203-748-562
Kahl Scientific Instrument Corp El Cajon CA 619-444-215
Kenco Industries Inc Atlanta GA 404-475-610
Kent Process Control Inc Edison NJ 201-225-171
Lab-Line Instruments Inc Melrose Park IL 312-450-2601
Leeds & Northrup Instruments
North Wales PA 215-643-201
Leighton Electronics Inc Leighton PA 215-377-599
Magnaflex Corp Chicago IL 312-867-800
M-C Products Scottsdale AZ 602-998-957
NES Inc Carpentersville IL 312-426-590
Nortec Corp Kennewick WA 509-735-755
Omega Engineering Inc Stamford CT 203-359-166
Plastics Systems Inc Marlboro MA 617-485-739
RIL Electronics Inc Warrington PA 215-343-507
Rutherford Research Co Rutherford NJ 201-933-209
Serfilco Ltd Glenview IL 312-998-930
Yellow Springs Instrument Co Inc
Yellow Springs OH 513-767-724

METERS—COUNTING RATE

See Counters (Instruments); Counters—Nuclear

METERS—CURRENT

CLARKE-HESS COMMUNICATIONS RESEARCH
NEW YORK NY 212-255-2940
ELECTRO NUMERICS INC IRVINE CA 714-250-150
IET LABS INC WESTBURY NY 516-334-595
NEWPORT ELECTRONICS INC
SANTA ANA CA 714-540-491
OMEGA ENGINEERING INC
STAMFORD CT 203-359-166
ADV PG Gatefold
SAGER HINGHAM MA 617-749-670
ADV PGS Green Pages/Footstrips
SENSITIVE RESEARCH INSTRUMENTS
MT VERNON NY 914-699-971
TEXMATE INC SOLANA BEACH CA 619-481-717
ADV PGS 268,269

A & D Electrical Instruments Glendale NY	718-275-6516
AEMC Corp Boston MA	617-451-0227
AMETEK Straza Div El Cajon CA	619-442-3451
A & M Instrument Inc Rockville Centre NY	516-678-6960
Analogue Corp Peabody MA	617-532-5660
Anascope Corp Wakefield MA	617-246-3300
Artlett Instrument Co Fort Madison IA	319-372-8366
Beckman Industrial Corp Brea CA	714-871-4848
Bell Inc F W Orlando FL	305-678-6900
B & K Precision Products Dynascan Corp	
Chicago IL	312-889-9087
Caltron Instruments Div Burton-Rogers Co	
Waltham MA	617-894-6440
Caltemp Instrument Inc Escondido CA	714-743-2800
Cincinnati ElectroSystems Inc Loveland OH	513-831-4347
Clarke-Hess Communications Research	
New York NY	212-255-2940
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Data Precision Div Analogic Danvers MA	617-246-1600
Delta Electronics Inc Alexandria VA	703-354-3350
Digimetrics Inc Yorkville NY	516-736-0158
Dixson Inc Grand Junction CO	303-242-8863
DNH Industries Inc Torrance CA	213-328-0750
Orion Scientific Div Emerson Elec Co	
San Diego CA	619-565-4415
Dranetz Technologies Inc Edison NJ	201-287-3680
Electrical Instrument Service Inc	
Mt Vernon NY	914-699-9717
Electromatic Controls Corp	
Hoffman Estates IL	312-882-5757
Electro Numerics Inc Irvine CA	714-250-1501
MICO Inc Dublin PA	215-249-9330
ntech Instruments & Cont Div Waltham MA	617-890-7440
luke Mfg Co Inc John Everett WA	206-356-5400
Likok Electrical Instrument Co Cleveland OH	216-541-8060
Penacook NH	603-753-6321
ET Labs Inc Westbury NY	516-334-5959
Intelligent Controls Inc Saco ME	207-283-0156
International Instruments Div Gen Resistance Inc	
North Branford CT	203-481-3450
International Microtronics Corp Tucson AZ	602-748-7900
ewell Electrical Instruments Inc	
Manchester NH	603-669-6400
Elthley Instruments Inc Cleveland OH	216-248-0400
FE Corp Instruments Div Clinton MA	617-835-1000
IES Inc Carpentersville IL	312-426-5900
leport Electronics Inc Santa Ana CA	714-540-4914
on-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953
orth American Soar Corp Cherry Hill NJ	609-488-1060
Ohio Semiconductors Inc Columbus OH	614-486-9561
Omega Engineering Inc Stamford CT	203-359-1660
acer Industries Inc Chippewa Falls WI	715-723-1141
ioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Y S Inc East Orange NJ	201-673-3996
ocal-Dana Instruments Inc Irvine CA	714-859-8999
ackwell Engineering Co Indianapolis IN	317-251-9453
ager Hingham MA	617-749-6700
ea Data Corp Newton MA	617-244-3216
ensitive Research Instruments Mt Vernon NY	914-699-9717
onomat Corp Stamford CT	203-348-9700
perry Instruments Inc A W Hauppauge NY	516-231-7050
quare D Co Palatine IL	312-397-2600
yon-Weston Div Sycon Corp Marion OH	614-382-5771
ymate Inc Solana Beach CA	619-481-7177
riplett Corp/A Penril Div Bluffton OH	419-358-5015
iversal Enterprises Inc Portland OR	503-644-8723
alhalla Scientific Inc San Diego CA	619-457-5576
iz Test Equip Div Viz Mfg Co	
Philadelphia PA	215-844-2626

METERS—DB

ET LABS INC WESTBURY NY	516-334-5959
MODUTEC INC NORWALK CT	203-853-3636
HOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
A & D Electrical Instruments Glendale NY	718-275-6516
Anascope Corp Wakefield MA	617-246-3300
Aristo-Craft New York NY	212-924-4041
Audio Precision Inc Beaverton OR	503-297-4837
Allantime Laboratories Inc Boonton NJ	201-335-0900
Artlett Instrument Co Fort Madison IA	319-372-8366
owmar Instrument Corp Ft Wayne Div	
Ft Wayne IN	219-747-3121
ata Check Corp San Diego CA	619-578-0101
igital Tec Dayton OH	513-254-6251
igitaltech Industries Inc Ridgefield CT	203-438-3731
Dixson Inc Grand Junction CO	303-242-8863
IL Instruments Inc Sparks MD	301-771-4800
Electronics Warehouse Inc Old Lyme CT	203-434-9838
luke Mfg Co Inc John Everett WA	206-356-5400
len Rad Inc Waltham MA	617-369-4400
enstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Halcyon Communications Inc San Jose CA	408-293-9970
loyl Electrical Instrument Wks Inc	
Penacook NH	603-753-6321
ET Labs Inc Westbury NY	516-334-5959
International Instruments Div Gen Resistance Inc	
North Branford CT	203-481-3450
Elthley Instruments Inc Cleveland OH	216-248-0400
FE Corp Instruments Div Clinton MA	617-835-1000
modutec Inc Norwalk CT	203-853-3636
orth American Soar Corp Cherry Hill NJ	609-488-1060
haoston Instrument & Elect Co Azusa CA	818-969-6801
ioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Y S Inc East Orange NJ	201-673-3996
ocal-Dana Instruments Inc Irvine CA	714-859-8999
akata USA Corp Elk Grove Village IL	312-593-3211
elco Products Co Buena Park CA	714-821-6913
enore Inc Sioux Falls SD	605-339-0100
hokai Far East Ltd Hartsdale NY	914-681-0700
mpson Electric Co Elgin IL	312-697-2260
perry Instruments Inc A W Hauppauge NY	516-231-7050

Triplett Corp/A Penril Div Bluffton OH	419-358-5015
Viz Test Equip Div Viz Mfg Co	
Philadelphia PA	215-844-2626
Wandel & Goltermann Inc	
Research Triangle Pk NC	919-544-8450
Wiltron Co Morgan Hill CA	408-778-2000

METERS—ELAPSED TIME

See Indicators—Elapsed Time

METERS—EQUIVALENT SERIES RESISTANCE

CLARKE-HESS COMMUNICATIONS RESEARCH	
NEW YORK NY	212-255-2940
AEMC Corp Boston MA	617-451-0227
Clarke-Hess Communications Research	
New York NY	212-255-2940
Dranetz Technologies Inc Edison NJ	201-287-3680
Electro Scientific Industries Inc Portland OR	503-641-4141
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Racal-Dana Instruments Inc Irvine CA	714-859-8999

METERS—FIELD-STRENGTH, MAGNETIC

See Magnetic Analysis Equipment

METERS—FIELD—STRENGTH, RF (EXCEPT RADIOMETERS)

GENERAL MICROWAVE CORP	
AMITYVILLE NY	516-226-8900
ADV PG 274	
INSTRUMENTS FOR INDUSTRY INC	
FARMINGDALE NY	516-694-1414
3M CO STATIC CONTROL SYSTEMS	
AUSTIN TX	800-328-1368
Anritsu America Inc Oakland NJ	201-337-1111
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Atlantic Research Corp Alexandria VA	703-642-4000
Blonder-Tongue Labs Inc Old Bridge NJ	201-679-4000
Compliance Design Inc Boxborough MA	617-264-4668
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Electro-Metrics Div Penril Corp	
Amsterdam NY	518-843-2600
General Microwave Corp Amityville NY	516-226-8900
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Instruments for Industry Inc Farmingdale NY	516-694-1414
Invalido Msmr & Control Combustion Engrg Inc	
Tulsa OK	918-834-5671
Leader Instruments Corp Hauppauge NY	516-231-6900
3M Co Static Control Systems Austin TX	800-328-1368
Mobil Electronics Inc Anderson IN	317-642-7976
Philmore Mfg Co Inc Inwood NY	516-239-6161
Polarad Electronics Inc Lake Success NY	516-328-1100
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Schaffner EMC Inc Instrument Div Union NJ	201-851-0644
Sencore Inc Sioux Falls SD	605-339-0100
Sigma Instruments Inc Fisher Pierce Div	
Braintree MA	617-843-5000
Texscan Corp Phoenix AZ	602-252-5021
Tucker Electronics Co Garland TX	214-348-8800
Tylan Corp Carson CA	213-518-3610

METERS—FLOW

See Indicators—Fluid-Flow

METERS—FREQUENCY, A-F

DCI INC OLATHE KS	913-782-5672
ADV PG 270	
ELECTRO INDUSTRIES DIV EI ELCTNS INC	
WESTBURY NY	516-334-0870
ADV PG 270	
MODUTEC INC NORWALK CT	203-853-3636
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
A & M Instrument Inc Rockville Centre NY	516-678-6960
Anascope Corp Wakefield MA	617-246-3300
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Audio Precision Inc Beaverton OR	503-297-4837
Axonix Corp Burlington MA	617-273-5550
DCI Inc Olathe KS	913-782-5672
Dranetz Technologies Inc Edison NJ	201-287-3680
Electro Industries Div El Elctns Inc	
Westbury NY	516-334-0870
Electromatic Controls Corp	
Hoffman Estates IL	312-882-5757
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Halcyon Communications Inc San Jose CA	408-293-9970
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
LFE Corp Instruments Div Clinton MA	617-835-1000
Modutec Inc Norwalk CT	203-853-3636
NES Inc Carpentersville IL	312-426-5900
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953

Ohio Semiconductors Inc Columbus OH	614-486-9561
Phaoston Instrument & Elect Co Azusa CA	818-969-6801
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Q V S Inc East Orange NJ	201-673-3996
Racal-Dana Instruments Inc Irvine CA	714-859-8999
RE Instruments Corp Westlake OH	216-871-7617
Richard Lee Co New Providence NJ	201-276-0710
Rycom Instruments Raytown MO	800-851-7347
Simpson Electric Co Elgin IL	312-697-2260
Solid State Electronics Corp Northridge CA	818-993-8257
States Co Div Multi-Amp Corp Dallas TX	214-333-3201
Tucker Electronics Co Garland TX	214-348-8800
Valhalla Scientific Inc San Diego CA	619-457-5576
Westberg Mfg Inc Sonoma CA	707-938-2121
Yokogawa Corp Of America Shenandoah GA	404-253-7000

METERS—FREQUENCY, COUNTER TYPE

See Counters

METERS—FREQUENCY, CRYSTAL CONTROL

DCI INC OLATHE KS	913-782-5672
ADV PG 270	
ELECTRO INDUSTRIES DIV EI ELCTNS INC	
WESTBURY NY	516-334-0870
ADV PG 270	
IET LABS INC WESTBURY NY	516-334-5959
TEXMATE INC SOLANA BEACH CA	619-481-7177
ADV PGS 268, 269	
Anascope Corp Wakefield MA	617-246-3300
C-Tek Inc Wakefield MA	617-246-1720
Cushman Electronics Inc San Jose CA	408-263-8100
DCI Inc Olathe KS	913-782-5672
Electro Industries Div El Elctns Inc	
Westbury NY	516-334-0870
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hewlett-Packard Palo Alto CA	415-857-8000
IET Labs Inc Westbury NY	516-334-5959
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Texmate Inc Solana Beach CA	619-481-7177

METERS—FREQUENCY, R-F

MODUTEC INC NORWALK CT	203-853-3636
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
TEXMATE INC SOLANA BEACH CA	619-481-7177
ADV PGS 268, 269	
A & M Instrument Inc Rockville Centre NY	516-678-6960
Anascope Corp Wakefield MA	617-246-3300
Coleman Electronics Co Edinburg VA	703-984-8848
Cushman Electronics Inc San Jose CA	408-263-8100
E I L Instruments Inc Sparks MD	301-771-4800
Fargo Co San Francisco CA	415-621-1447
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
LogiMetrics Inc Plainville NY	516-349-1700
Melsey Corp Carle Place NY	516-333-0655
Modutec Inc Norwalk CT	203-853-3636
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953
North American Soar Corp Cherry Hill NJ	609-488-1060
Phaoston Instrument & Elect Co Azusa CA	818-969-6801
Premier Microwave Corp Port Chester NY	914-939-8900
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Simpson Electric Co Elgin IL	312-697-2260
Solid State Electronics Corp Northridge CA	818-993-8257
Struthers Electronics Corp Farmingdale NY	516-420-9000
Texmate Inc Solana Beach CA	619-481-7177
Triplett Corp/A Penril Div Bluffton OH	419-358-5015
Tucker Electronics Co Garland TX	214-348-8800
UTE Microwave Inc Asbury Park NJ	201-922-1009

METERS—FREQUENCY, VIBRATING REED

MODUTEC INC NORWALK CT	203-853-3636
Biddle Instruments-Sensitek Blue Bell PA	215-646-9200
Caltemp Instrument Inc Escondido CA	714-743-2800
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
E I L Instruments Inc Sparks MD	301-771-4800
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
J B T Instruments Inc New Haven CT	203-776-1111
Modutec Inc Norwalk CT	203-853-3636
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Simpson Electric Co Elgin IL	312-697-2260
Sicht Co Inc Herman H New York NY	212-732-8163

METERS—GRID DIP

Heath Co Benton Harbor MI	616-982-3200
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METERS—HOUR, DC

CURTIS INSTRUMENTS INC	
MT KISCO NY	914-666-2971
ADV PG 264	
Airpax Corp Cheshire Div Cheshire CT	203-272-0301
Bristol Saybrook Co Div Pratt-Read Corp	
Old Saybrook CT	203-388-3414
Curtis Instruments Inc Mt Kisco NY	914-666-2971
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600

METERS—HUMIDITY

OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
Abbeon Cal Inc Santa Barbara CA	805-966-0810
Anasco Corp Wakefield MA	617-246-3300
Atkins Technical Inc Gainesville FL	904-378-5555
Bacharach Inc Pittsburgh PA	412-963-2000
Belfort Instrument Co Baltimore MD	301-342-2626
Clean Room Products Inc Ronkonkoma NY	516-588-7000
Climatronics Corp Bohemia NY	516-567-7300
Dataatran Labs Inc Sussex NJ	914-856-4313
EG & G Inc Environmental Equip Div	
Waltham MA	617-890-3710
Electric Tachometer Corp Philadelphia PA	215-726-7723
Enercorp Instruments Ltd Islington ON	416-231-5335
Extex Instruments & Cont Div Waltham MA	617-890-7440
The Foxboro Co Foxboro MA	617-543-8750
General Eastern Instruments Corp	
Watertown MA	617-923-2386
Honeywell Process Control Div	
Ft Washington PA	215-641-3000
Hy-Cal Engineering El Monte CA	818-444-4000
Idalee Electronics Corp Valley Stream NY	516-825-8955
Jersey Technical Electronics Inc Middlesex NJ	201-469-8160
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Omega Engineering Inc Stamford CT	203-359-1660
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Panametrics Inc Process Inst Div	
Waltham MA	617-899-2719
Phys-Chemical Research Corp New York NY	212-924-2070
Solomat Corp Stamford CT	203-348-9700
Thunder Scientific Corp Albuquerque NM	505-265-8701
Wahl Instruments Inc Culver City CA	213-641-6931
Warren Components Corp Warren PA	814-723-6200
Winland Electronics Inc Mankato MN	507-625-7231
Yellow Springs Instrument Co Inc	
Yellow Springs OH	513-767-7241

METERS—LIGHT

AEMC Corp Boston MA	617-451-0227
American Ultraviolet Co Chatham NJ	201-635-8355
Anasco Corp Wakefield MA	617-246-3300
Caltamp Instrument Inc Escondido CA	714-743-2800
Chadwick Helmuth Co Inc El Monte CA	213-575-6161
Ealing Corp South Natick MA	617-655-7000
EG & G Gamma Scientific Inc San Diego CA	619-279-8034
Fotec Inc Boston MA	617-241-7810
Foundation Instruments Inc Nepean ON	613-226-4000
Gordon Enterprises Inc North Hollywood CA	818-985-5500
Intelco West Action MA	617-264-4485
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Kaligo Electronics Co Inc Bethlehem PA	215-837-0700
Kratons Analytical Ramsey NJ	201-934-9000
OAI Santa Clara CA	408-988-6900
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Photodyne Inc Newbury Park CA	818-889-8770
Photomatrix Corp Santa Monica CA	213-828-9585
Photo Research Div Kollmorgen Corp	
Burbank CA	818-843-6100
Rockwell Engineering Co Indianapolis IN	317-251-9453
Simpson Electric Co Elgin IL	312-697-2260
Spectronics Corp Westbury NY	516-333-4840
Sticht Co Inc Herman H New York NY	212-732-8163
United Detector Technology Hawthorne CA	213-978-0516
UVP Inc San Gabriel CA	818-285-3123
Western Indicator Co Div DuPre Inc	
Chino CA	714-597-4887
Yellow Springs Instrument Co Inc	
Yellow Springs OH	513-767-7241

METERS—MAGNETIC FIELD INTENSITY

See Magnetic Analysis Equipment

METERS—MODULATION

BOONTON ELECTRONICS CORP	
RANDOLPH NJ	201-584-1077
ADV PG 266	
Aristo-Craft New York NY	212-924-4041
Avtron Mfg Inc Cleveland OH	216-641-8310
Boonton Electronics Corp Randolph NJ	201-584-1077
Cushman Electronics Inc San Jose CA	408-263-8100
Dixon Inc Grand Junction CO	303-242-8863
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hewlett-Packard Palo Alto CA	415-857-8000
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
Racal-Dana Instruments Inc Irvine CA	714-859-8999
RE Instruments Corp Westlake OH	216-871-7617
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Simpson Electric Co Elgin IL	312-697-2260
Tucker Electronics Co Garland TX	214-348-8800

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RF Milli-voltmeters

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BOONTON ELECTRONICS CORPORATION

791 Route 10
Randolph, NJ 07869
Tel. 201-584-1077

METERS—MOISTURE

OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Aristo-Craft New York NY	212-924-4041
Atkins Technical Inc Gainesville FL	904-378-5555
Automatic Control Electronics Co	
San Antonio TX	512-661-4111
Data Tech Div Penril Corp Santa Ana CA	714-546-7160
Du Pont De Nemours & Co Inc E I Instrument Sys	
Wilmington DE	302-772-5488
EG & G Inc Environmental Equip Div	
Waltham MA	617-890-3710
Enercorp Instruments Ltd Islington ON	416-231-5335
Epic Inc New York NY	212-349-2470
The Foxboro Co Foxboro MA	617-543-8750
General Eastern Instruments Corp	
Watertown MA	617-923-2386
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Luft Instruments Inc Lincoln MA	617-259-9215
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
Omega Engineering Inc Stamford CT	203-359-1660
Panametrics Inc Process Inst Div	
Waltham MA	617-899-2719
Shokai Far East Ltd Hartsdale NY	914-681-0700
Strandberg Engineering Labs Inc	
Greensboro NC	919-274-3775
Thunder Scientific Corp Albuquerque NM	505-265-8701

METERS—MULTI-PURPOSE

See Volt-Ohm-Milliammeters

METERS—NOISE FIGURE

ELGENCO INC HURRICANE UT	801-635-4954
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Calibron Instruments Div Burton-Rogers Co	
Waltham MA	617-894-6440
Convex Corp Washington DC	703-661-8900
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Elgenco Inc Hurricane UT	801-635-4954
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hewlett-Packard Palo Alto CA	415-857-8000
Hoyt Electrical Instrument Wks Inc	
Penacook NH	603-753-6321
Integra Microwave Santa Clara CA	408-727-9601
Leader Instruments Corp Hauppauge NY	516-231-6900

Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-4129
Shokai Far East Ltd Hartsdale NY	914-681-0700
Tucker Electronics Co Garland TX	214-348-8800

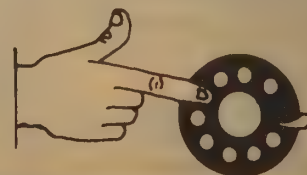
METERS—NULL

See Indicators—Null

METERS, PANEL—ANALOG

CORD ELECTRONICS INC WESTBURY NY	516-935-3600
MODUTEC INC NORWALK CT	203-853-3663
ADV PG 267	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY	914-699-9711
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TEXMATE INC SOLANA BEACH CA	619-481-7177
ADV PGS 268, 269	
TIME ZERO CORP CLIFTON NJ	201-340-0400
A & D Electrical Instruments Glendale NY	718-275-6511
Action Instruments Inc San Diego CA	619-279-5721
Airpax Corp Ft Lauderdale Div	
Ft Lauderdale FL	305-587-1100
Alnor Instrument Co Skokie IL	312-647-7861
A & M Instrument Inc Rockville Centre NY	516-678-6991
Bailey Controls Co Wickliffe OH	216-585-8500
Bartlett Instrument Co Fort Madison IA	319-372-8336
Blitronics Inc Bethlehem PA	215-865-2441
Bowmar/ALI Inc Acton MA	617-263-8336
Calibron Instruments Div Burton-Rogers Co	
Waltham MA	617-894-6440
Caltamp Instrument Inc Escondido CA	714-743-2800
Cord Electronics Inc Westbury NY	516-935-3663
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1100
Dixon Inc Grand Junction CO	303-242-8863
Electrical Instrument Service Inc	
Mt Vernon NY	914-699-9711
Electric Tachometer Corp Philadelphia PA	215-726-7721
Electronic Development Labs Inc	
Hauppauge NY	516-435-2800
EMICO Inc Dublin PA	215-249-9331
Faria Corp Thos G Uncasville CT	203-848-9231
Fischer & Porter Co Westminster PA	215-674-6000
GC Electronics Div Household Intl	
Rockford IL	815-968-9600
Hickok Electrical Instrument Co Cleveland OH	216-541-8000
Hottinger Baldwin Measurements Inc	
Framingham MA	617-875-8781
Hoyt Electrical Instrument Wks Inc	
Penacook NH	603-753-6321
Intronics Industries Ltd St Petersburg FL	813-577-9000
International Instruments Div Gen Resistance Inc	
North Branford CT	203-481-3400
Jewell Electrical Instruments Inc	
Manchester NH	603-669-6400
LFE Corp Instruments Div Clinton MA	617-835-1000
Modutec Inc Norwalk CT	203-853-3663
North American Soar Corp Cherry Hill NJ	609-488-1000
Omega Engineering Inc Stamford CT	203-359-1660
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Q V S Inc East Orange NJ	201-673-3900
Red Lion Controls York PA	717-767-6500
Robinson-Halpern Co Plymouth Mtg PA	215-825-9200
Rockwell Engineering Co Indianapolis IN	317-251-9400
Selco Products Co Buena Park CA	312-921-6900
Sensitive Research Instruments Mt Vernon NY	914-699-9711
Shokai Far East Ltd Hartsdale NY	914-681-0700
Simpson Electric Co Elgin IL	312-697-2260
Square D Co Palatine IL	312-397-2600
Texmate Inc Solana Beach CA	619-481-7177
Time Zero Corp Clifton NJ	201-340-0400
Universal Enterprises Inc Portland OR	503-644-8700

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MODUTEC'S METERS MEASURE-UP

TO YOUR MOST DEMANDING INSTRUMENT NEEDS

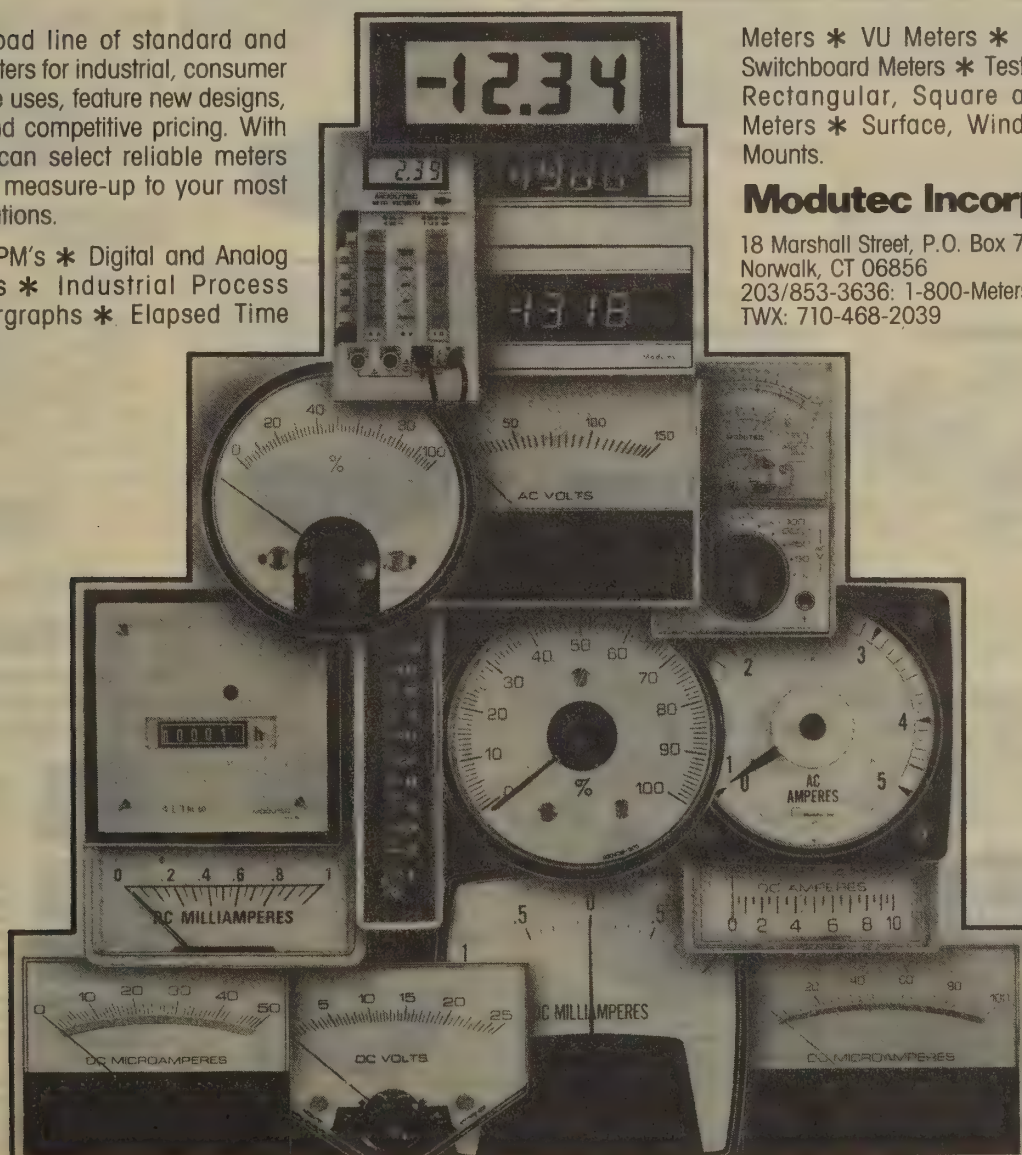
Modutec's broad line of standard and customized meters for industrial, consumer and automotive uses, feature new designs, high quality and competitive pricing. With Modutec you can select reliable meters which always measure-up to your most precise applications.

* Big-Little DPM's * Digital and Analog Panel Meters * Industrial Process Meters * Bargraphs * Elapsed Time

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203/853-3636: 1-800-Meters-1
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Texmate employs no sales representatives or salesmen, so none will call on you. Instead we offer factory direct contact, quality products, fast delivery and lower prices.

INDUSTRIAL METERS

ID-35 \$59

\$50 (100's)

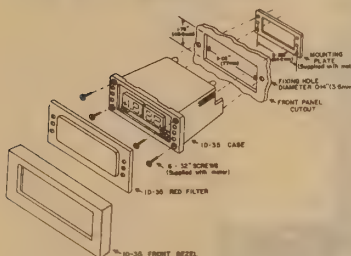


3 1/2 digit LED meter. 0.56" high LEDs • 117V/230V AC line operated • Ruggedized DPM with dust and waterproof industrial case with screw terminals • Fine and coarse adjustments through header selectable ranges of 2V, 20V, & 200V • Infinitely scalable with bipolar inputs with easy scaling for 4-20mA or 1-5V signals with the offset option • 1 megohm input impedance, hold reading, display test, display blank, auto zero, programmable decimals, automatic polarity • TC 50ppm typical

ID-35 WITH
PREAMPLIFIER \$69 \$54 (100's)

Low level preamplifier option available for ID-35 with DIP switch programmable full scale ranges of 200mV, 100mV, 50mV and 20mV

ID CASE DIMENSIONS



SCREW TERMINAL METERS FOR LOW PROFILE CASES

SM-35 \$49

\$37 (100's)



New, multi-purpose, 3 1/2 digit, LED meter • 0.56" high LEDs • 5V DC powered, 170mA maximum • Fine and coarse adjustments through header selectable ranges of 2V, 20V and 200V • Infinitely scalable with single ended input with easy scaling for 4-20mA or 1-5V signals with the offset option • 1 megohm input impedance, hold reading and display test functions • Auto zero, automatic polarity, programmable decimal points • TC 50ppm typical • No soldering is required for this meter which, as a standard feature, is supplied with four new screw terminal input clips

SCREW TERMINAL METERS

SM-35X \$59

\$50 (100's)



New, multi-purpose, 3 1/2 digit LCD meter • 0.48" high display • 5V DC powered, 17mA maximum • Fine and coarse adjustments through header selectable ranges of 2V, 20V and 200V • Infinitely scalable with single ended input with easy scaling for 4-20mA or 1-5V signals with the offset option • 1 megohm input impedance, hold reading and display test function • Dummy, non-functional, trailing zero • Auto zero, automatic polarity, programmable decimal points • TC 50ppm typical • No soldering is required for this meter which, as a standard feature, is supplied with four new screw terminal input clips

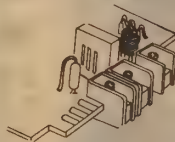
SM-45 \$69

\$54 (100's)



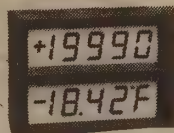
New, multi-purpose, 4 1/2 digit LED meter • 0.4" high LEDs • 5V DC powered, 250mA maximum • Fine and coarse adjustments through header selectable ranges of 2V, 20V and 200V • Infinitely scalable with single ended input, with easy scaling for 4-20mA or 1-5V with the offset option • 1 megohm input impedance, hold reading, display test and display functions • Auto zero, automatic polarity, programmable decimal points • TC 50ppm typical • No soldering is required for this meter which, as a standard feature, is supplied with four new screw terminal input clips

OPTIONAL SCREW TERMINAL

2-WIRE PROCESS DPM's
POWERED DIRECTLY FROM THE
SIGNAL CURRENT LOOP

CM-35XT \$75

\$64 (100's)



Powered by 4 to 20mA signal loop power • No external power source required • Translates 4 to 20mA input into 0 to 1999 digital display • May be user scaled to any required engineering unit • Programmable extra digit for use as trailing "0" or as °C or °F descriptor • .48" LCD display • Bipolar • 50 PPM TC • Programmable decimals • Available in stackable cases as shown

ANALOG METERS

AM-20 \$49

\$41 (100's)

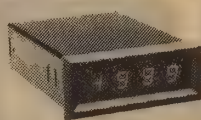


Rugged versatile solid state analog DPM • Accuracy $\pm 2\%$ of full scale • 10 megohm input impedance • User programmable for bargraph display • Moving dot display • Moving proportional brightness 3 to 4 dot (slinky) display • 0-4V FS to 0-1200V FS input • 4-20mA input • Offset capability • Bipolar center zero null meter • Unipolar center zero with expanding bar or intersecting bars • Selectable LED scale points • Flashing overrange • Overrange alarm output • 5V DC pwr. bar mode • 4V to 24V DC pwr. dot mode

DIGITAL PANEL METERS

PM-35U \$39

\$29 (100's)



Lowest priced quality 3 1/2 digit DPM available • Bright 0.3" LEDs • Differential inputs • Bipolar • Auto zero • Ratio-metric • Ohms/Amps • Programmable decimals • 200mV, 2V, 20V, 200V & 1200V rgs. • Edge connector or direct solder tab connections • TC 100 ppm typ. 200 max. • 4V DC pwr.

PM-35A \$49

\$37 (100's)



Popular, general purpose 3 1/2 digit instrument • 0.56" high LEDs • More than 50,000 units have been installed throughout the world in thousands of different applications, attesting to the meter's reliability • Differential inputs • Programmable current & ohmmeter capability • Ratio-metric • 200mV, 2V, 20V, 200V & 1200V rgs. • Scaling in engineering units with offsets • Lamp test • Low TC 50 ppm typ. • Auto zero • Bipolar • Programmable decimals • 5V DC pwr.

PM-35AR \$74

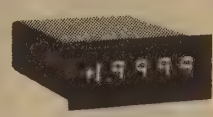
\$63 (100's)



World's smallest size lowest priced autoranging DPM • Has all the features of the PM-35A except ratio-metric ohms measurement • Autoranges between 200mV-2V, 2V-20V, 20V-200V or 200V-1200V • 1000 megohm input impedance on 200mV-2V range, 10 megohm on others • Auto switching decimals • Programmable to display engineering units • 5V DC pwr.

PM-45 \$79

\$67 (100's)



Popular economical 4 1/2 digit DPM • Single ended input • MUX BCD available • Sample & hold • Leading zero blanking • 0.015% rdg. accuracy • 0.0001 volt resolution • Ratio-metric • Bright 0.3" LEDs • 5V DC pwr.

PM-3.5 \$59

\$50 (100's)



Very fast update rate available • 3 1/2 digit • Single ended input • MUX BCD available • Sample & hold • Leading zero blanking • Bright 0.3" LEDs • 5V DC pwr.

PM-35XAC \$69

\$54 (100's)



The world's smallest 115/230V AC line operated DPM, fully isolated with internal transformer • PM-35XAC has all the features of the PM-35X but with AC pwr. • Can also operate from DC voltages of 9V DC to 50V DC

ENERGY MISER LOW POWER
DIGITAL PANEL METERS

Incorporating TEXMATE's propriety Hi-Rel Hi-Contrast 0.48" LCD Displays

PM-35X \$65

\$52 (100's)



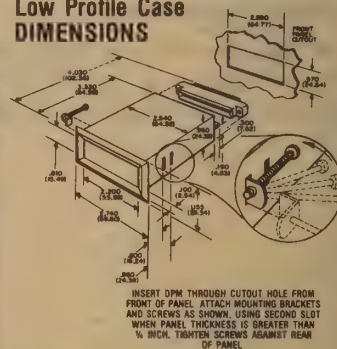
Versatile 3 1/2 digit low pwr. LCD meter • Wide operating voltage range capability 3.5V to 50V DC at 4-15mA • Differential inputs • Programmable current & ohmmeter capability • Ratio-metric • 200mV, 2V, 20V, 200V & 1200V rgs. • Scaling in engineering units with offset • Lamp test • Auto zero • Bipolar • Programmable decimals • 8 selectable function descriptors

PM-45X \$150

\$129 (100's)



Smallest 4 1/2 digit 0.48" LCD DPM available • Super stable temperature compensated reference • (0.01% rdg. + 1 digit) accuracy • True differential & single ended inputs • 100kHz quartz crystal controlled clock for 120dB 50/60Hz NMR • 80dB CMR • 200mV to 1200V FS • 4-20mA • Ohms • Current • Ratio-metric • Programmable decimals • Scaling in engineering units with offset capability • Overrange/underrange output • Busy output • Clock output • Run/Hold • MUX BCD output • Ultra low power requirements 3-5mA at +4.5V to +5.5V DC (25mW)

Low Profile Case
DIMENSIONS

Texmate's Popular Low Profile
1" x 2 1/2" DPM Cases
For Twin Mounting or multiple
arrays order your DPMs in
cases to suit your panel layout.



End Mount Case
Two end mount cases enable simple twin mounting in a single cutout



Center Mount Case
Any number of center mount cases may be fitted between two end mount cases for multiple mounting arrays



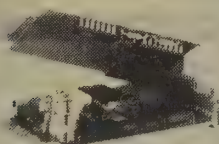
Full Bezel Case
Complimentary styling to multiple mounting cases.



Slim Line Case
Standard Texmate case with attractive matte finish. (Shipped with all orders unless otherwise specified)

Ask about our new ruggedized, dust and waterproof Industrial Panel Meter line. For complete data sheets and application notes on these and other Texmate measurement and control products, call (619) 481-7177.

PM-45XBCD \$180 \$153 (100's)



The world's smallest 4 1/2 digit DPM with a buffered tri-state parallel BCD output is created by adding an internally mounted PCB to the standard PM-45X. Data outputs include polarity • Overrange and underrange • Data ready • Controls include run/hold • Clear and output select • Interconnection is by a standard 26 pin PCB to ribbon cable connector

PM-45XU \$97 \$87 (100's)

Low cost utility version of the PM-45X • Has all the same low power features of the PM-45X except uses a standard TC reference and has derated specifications • Accuracy (0.015% rdg. + 2 digits)

PM-45XUBCD \$127 \$108 (100's)

All the same features as the PM-45XU but with an internally mounted buffered tri-state parallel BCD output

TEMPERATURE METERS

TM-150/150F \$55 \$47 (100's)

TM-150R/150RF \$59 \$50 (100's)



Low cost direct reading temperature meters 0.3" LEDs • 5V DC pwr. • TM-150 and TM-150F are configured for voltage and current sensing and are factory prescaled to display °C or °F with popular IC transducers such as National Semiconductor's LM135, LM235, LM335 or Analog Devices AD590 sensors • TM-150R and TM-150RF are configured for resistance sensing with a precision 1µA to 10mA current source and are factory prescaled to display °C or °F with platinum 100 ohm RTD sensors • Two programmable decimal positions • Auto polarity

TM-150X \$75 \$64 (100's)

TM-150XR \$79 \$67 (100's)

TM-150XAC \$79 \$67 (100's)

TM-150XACR \$83 \$71 (100's)



Low cost power direct reading temperature meter • High contrast 0.48" LCD display • Operates with most popular RTD and voltage or current output transducers/probes • The TM-150X 5V DC pwr. and TM-150XAC 115V AC pwr. are configured for voltage and current sensing and are factory prescaled to display °C with National Semiconductor's LM135, LM235, LM335 or Analog Devices AD590 sensors • The TM-150XR 5V DC pwr. and TM-150XACR 115V AC pwr. are configured for resistance sensing with a precision 1µA to 10mA current source and are factory prescaled to display °C with platinum 100 ohm RTD sensors • Programmable °C or °F descriptors and two programmable decimal positions • Measurements from -185° to +600°C & accuracies to 0.1°C are possible depending on sensor/probe selected • Auto polarity

TM-150XF \$75 \$64 (100's)

TM-150XRF \$79 \$67 (100's)

TM-150XACF \$79 \$67 (100's)

TM-150XACRF \$83 \$71 (100's)



Identical features to the TM-150X, TM-150XR, TM-150XAC & TM-150XACR but factory prescaled to display °F • Any of the TM-150 series may be user modified and calibrated to display either °C or °F, or user modified to enable switch selection of °C or °F display

EVENT COUNTERS

PC-45X \$59 \$50 (100's)



A versatile event counter/totalizer featuring 19999 counts with overrange indication, or 9999 counts with cascade output • Contact closure, AC or logic signal inputs • High contrast 0.48" LCD • 4-6V DC power with outputs for user supplied Ni-Cad battery backup • Capable of signal powered operation • Internal debouncing circuit • Controls include count reset, count inhibit and display hold • 4 user programmable decimal points • Overload indication

PC-45XAC \$65 \$52 (100's)

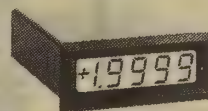
All the same features as the PC-45X but designed to be operated from 110V AC or 220V AC mains power • The internally mounted transformer provides a 1.8mA output to trickle charge a user supplied 7.2V standard Ni-Cad backup battery. (Eveready CH 22 or eqv.)

PC-45 \$49 \$37 (100's)



A versatile event counter/totalizer featuring 19999 counts with overrange indication, or 9999 counts with cascade output • Contact closure, AC or logic signal inputs • High brightness 0.4" LED display • +5V DC powered • Outputs for user supplied Ni-Cad battery backup • Internal debouncing circuit • Controls include count reset, count inhibit and display hold • 4 user programmable decimal points • Overload indication

REMOTE DISPLAYS 0.48" LCD



RD-45XMUX4 \$49 \$42 (100's)

Accepts standard 4-wire BCD data inputs with 2µ minimum minimum spacing between digit scan/digit drive outputs • Positive or negative logic • Polarity sign and 4 selectable decimal points • Overrange indication • 26 pin ribbon cable/edge connector input • +3V to +6V operation at 2-3mA

RD-45XMUX4I \$49 \$42 (100's)

All the same features as the RD-45XMUX4 but designed to operate with InterSIL A/D converters where the digit scan outputs overlap and a STROBE signal identifies the data for each digit

RD-45XMUX7 \$54 \$46 (100's)

Accepts multiplexed 7 segment inputs • Common anode or common cathode • Negative or positive logic • Requires 2µs minimum spacing between digit scan/digit drive outputs • Polarity sign • Overrange indication • 4 selectable decimal points • +3V to +6V DC operation at 2-3mA

REMOTE DISPLAYS .4" LED

RD-45MUX4 \$40 \$34 (100's)

RD-45MUX4I \$40 \$34 (100's)

RD-45MUX7 \$45 \$39 (100's)



The RD-45MUX4, RD-45MUX4I and RD-45MUX7 have corresponding features to the RD-45XMUX4, RD-45XMUX4I and RD-45XMUX7 but feature high brightness 0.4" LED displays instead of LCD • 26 pin ribbon cable/edge connector input • Low ripple +4V to +5.5V DC pwr at 200mA typ

AC POWERED DPM'S

RP-35U \$49 \$42 (100's)



World's lowest priced 115/230V AC line operated DPM • 3 1/2 digits • 0.56" standard red LEDs • True differential inputs • 200mV to 1200V FS • Ratimetric • Ohms • Current • Bipolar • Auto zero • Programmable decimals • TC 100ppm typ

RP-35A \$59 \$50 (100's)

Extremely versatile full feature 3 1/2 digit 115/230V AC line operated DPM • Differential inputs • Customer programmable current and ohmmeter capability • Ratimetric • 4-20mA • Scaling in engineering units with offset • DC outputs available • Display test • Low TC 60 ppm typ. • Auto zero • Bipolar • Programmable decimals

RP-35AR \$85 \$73 (100's)

World's lowest cost autoranging AC pwr. DPM • Has all the features of the RP-35A except ratimetric ohms measurement • Auto ranges between any two ranges from 200mV-2V, 2V-20V, 20V-200V, or 200V-1200V • Auto switching selectable decimals

RP-3500D2 \$97 \$87 (100's)

RP-4500D2 \$125 \$108 (100's)



RP-3500D2 3 1/2 digit and RP-4500D2 4 1/2 digit are top of the line 115/230V AC pwr. instrumentation DPM's • High normal mode noise rejection at 50/60 Hz of 120dB with internal 100K Hz quartz clock • Scaling in engineering units with offset • 4-20mA • Ratimetric • Ideal for load cell measurements • 20 Ω to 20 MΩ ohmmeter capability • 10µV resolution on RP-4500D2

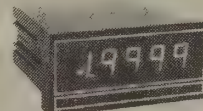
RP-3500D2BCD \$127 \$108 (100's)

RP-4500D2BCD \$160 \$137 (100's)

All the same features as the RP-3500D2 and RP-4500D2 but with buffered tri-state parallel BCD output. Note: Parallel BCD output board is also available for field retrofit of previously purchased RP-3500D2/4500D2 meters

RP-3500 \$79 \$67 (100's)

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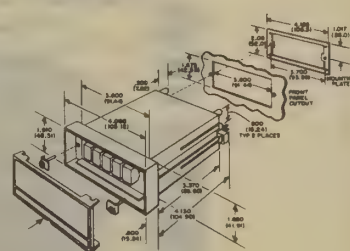
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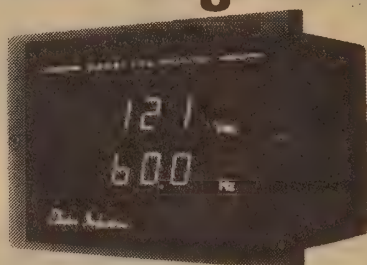
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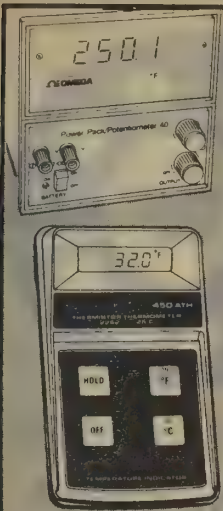
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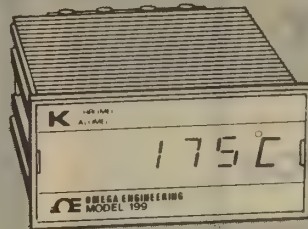
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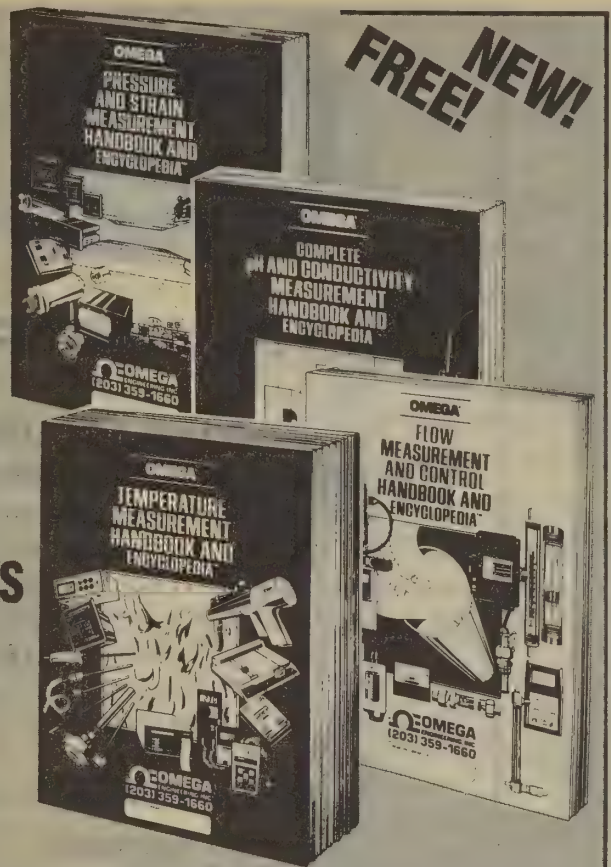
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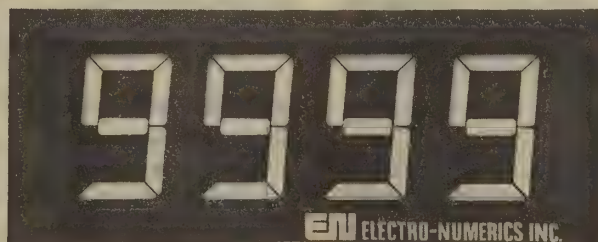
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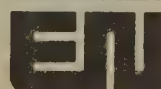
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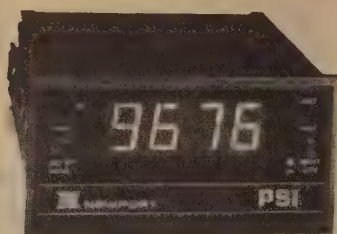


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Continental Resources Inc Bedford MA.....	617-275-0850
Epsco Inc Westwood MA.....	617-329-1500
General Microwave Corp Amityville NY.....	516-226-8900
Harris Corp Govt Support Sys Div Syosset NY.....	516-364-0400
Hewlett-Packard Palo Alto CA.....	415-857-8000
Marconi Instruments Div Marconi Elctns Inc Allendale NJ.....	201-934-9050
The Narda Microwave Corp Hauppauge NY.....	516-231-1700
Racal-Dana Instruments Inc Irvine CA.....	714-859-8999
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
Tucker Electronics Co Garland TX.....	214-348-8800
Wavetek Pacific Measurements Inc Sunnyvale CA.....	408-734-5780
Weinschel Engineering Co Inc Gaithersburg MD.....	301-948-3434

METERS—POWER LEVEL, OPTICAL

BERKELEY NUCLEONICS CORP BERKELEY CA.....	415-527-1121
ADV PG 200	
Berkeley Nucleonics Corp Berkeley CA.....	415-527-1121

METERS—POWER LEVEL, RF

BIRD ELECTRONIC CORP CLEVELAND (SOLON) OH.....	216-248-1200
BOONTON ELECTRONICS CORP RANDOLPH NJ.....	201-584-1077
GENERAL MICROWAVE CORP AMITYVILLE NY.....	516-226-8900
ADV PG 274	
INSTRUMENTS FOR INDUSTRY INC FARMINGDALE NY.....	516-694-1414

INSTRUMENTATION FROM GENERAL MICROWAVE

Average Power Meter 0.01-40 GHz



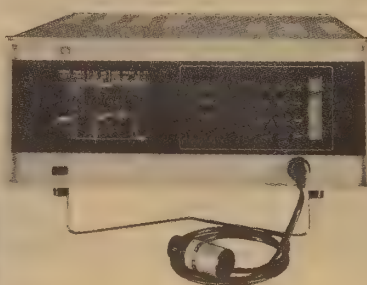
Model 475: Digital Readout

- Direct reading from:
– 39.99 to + 35.0 dBm
in one range
- Accuracy as high as
0.05 dB
- Resolution: 0.01 dB
- Noise and Drift: less
than 0.01 W p-p
- Automatic zero set
- Built-in self calibrator

Model 476: Analog Readout

- 30 nanowatts to 3 W
power range
- $\pm 1\%$ of full scale
accuracy
- less than 1.5% noise
and drift on lowest
range
- Automatic zero set
- Built-in self calibrator

Automatic Peak Power Meter 0.75-18 GHz Model 478



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With the GMC unit, the pulse to be measured is digitized and presented on the built in CRT Monitor on a calibrated graph in either dB or linear power units. The peak power is always displayed as well as any instantaneous power point that the operator selects by sliding a cursor on the graph. Any time parameter of the pulse such as rise time or pulse width is read out automatically by setting a set of cursors to any points on the pulse. Operation on the IEEE-488 standard bus is a standard feature of the instrument.

Radiation Hazard Meter -RAHAM™



General Microwave RAHAM Hazard Meters detect and measure potentially hazardous electromagnetic energy radiating or leaking from rf and microwave sources, e.g. microwave ovens, medical equipment, radar installations, microwave heaters and dryers, mobile communication systems, electronic warfare systems.

Model	Polarization	Frequency Range, GHz
1	Bi-directional	0.3-18
2	Bi-directional	0.01-3
3	Isotropic	0.3-18
12	Bi-directional	0.01-18
4A	Isotropic,	200-kHz- (High Stability) 26GHz

For complete information
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Arts America Inc Oakland NJ.....	201-337-1111
Plant Laboratories Inc Boonton NJ.....	201-335-0900
Arker & Williamson Bristol PA.....	215-788-5581
F Electronics Solana Beach CA.....	619-755-1881
rd Electronic Corp Cleveland (Solon) OH.....	216-248-1200
monton Electronics Corp Randolph NJ.....	201-584-1077
onnecticut Microwave Corp Canton CT.....	203-693-4247
L Instruments Inc Sparks MD.....	301-771-4800
etro Impulse Lab Inc Red Bank NJ.....	201-741-0404
asco Inc Westwood MA.....	617-329-1500
eneral Microwave Corp Amityville NY.....	516-226-8900
arris Corp Govt Support Sys Div.....	
Syosset NY.....	516-364-0400
ath Co Benton Harbor MI.....	616-982-3200
wlett-Packard Palo Alto CA.....	415-857-8000
struments for Industry Inc Farmingdale NY.....	516-694-1414
arconi Instruments Div Marconi Elctns Inc.....	
Allendale NJ.....	201-934-9050
obl Electronics Inc Anderson IN.....	317-642-7976
astrostrom Instrument & Elect Co Azusa CA.....	818-969-6801
ical-Dana Instruments Inc Irvine CA.....	714-859-8999
ublic Electronics Inc Melville NY.....	516-249-1414
cker Electronics Co Garland TX.....	214-348-8800
Test Equip Div Viz Mfg Co.....	
Philadelphia PA.....	215-844-2626
andel & Goltermann Inc.....	
Research Triangle Park NC.....	919-544-8450
avetek Pacific Measurements Inc.....	
Sunnyvale CA.....	408-734-5780
ainschel Engineering Co Inc.....	
Galtersburg MD.....	301-948-3434

METERS—Q

F LABS INC WESTBURY NY.....	516-334-5959
Instar Rental Electronics Inc.....	
Woodland Hills CA.....	818-887-4000
wlett-Packard Palo Alto CA.....	415-857-8000
F Labs Inc Westbury NY.....	516-334-5959
asametric Inc Foster City CA.....	415-574-4441
arconi Instruments Div Marconi Elctns Inc.....	
Allendale NJ.....	201-934-9050
therford Research Co Rutherford NJ.....	201-933-2091
cker Electronics Co Garland TX.....	214-348-8800

METERS—Q DIGITAL

F LABS INC WESTBURY NY.....	516-334-5959
onix Corp Burlington MA.....	617-273-5550
" Labs Inc Westbury NY.....	516-334-5959
cal-Dana Instruments Inc Irvine CA.....	714-859-8999
therford Research Co Rutherford NJ.....	201-933-2091

METERS—RADIATION HAZARD

NERAL MICROWAVE CORP.....	
AMITYVILLE NY.....	516-226-8900
ADV PG 274.....	
neral Microwave Corp Amityville NY.....	516-226-8900

METERS—SOUND LEVEL

HUNTER PRODUCTS INC.....	
BRIDGEWATER NJ.....	201-526-8440
F LABS INC WESTBURY NY.....	516-334-5959
JDTEC INC NORWALK CT.....	203-853-3636
sto-Craft New York NY.....	212-924-4041
el & Kjaer Instruments Inc Marlboro MA.....	617-481-7000
liron Instruments Div Burton-Rogers Co.....	
Waltham MA.....	617-894-6440
umbia Research Labs Inc Woodlyn PA.....	215-872-3900
mpson Instruments Inc.....	
Elk Grove Village IL.....	312-593-1107
ta Check Corp San Diego CA.....	619-578-0101
son Inc Grand Junction CO.....	303-242-8863
n Rad Inc Waltham MA.....	617-369-4400
ntstar Rental Electronics Inc.....	
Woodland Hills CA.....	818-887-4000
nter Products Inc Bridgewater NJ.....	201-526-8440
" Labs Inc Westbury NY.....	516-334-5959
ernational Instruments Div Gen Resistance Inc.....	
North Branford CT.....	203-481-3450
Mechanical Analysis Inc Columbus OH.....	614-885-5376
asametric Inc Foster City CA.....	415-574-4441
E Corp Instruments Div Clinton MA.....	617-835-1000
tronics Inc Rochester NY.....	716-334-7300
rdutek Inc Norwalk CT.....	203-853-3636
er Industries Inc Chippewa Falls WI.....	715-723-1141
hde & Schwarz GmbH & Co KG.....	
Munichen W Germany.....	089-41290
ott Instrument Labs Div AEC Corp.....	
udson NH.....	603-880-6300
leo Products Co Buena Park CA.....	213-921-6913
mpson Electric Co Elgin IL.....	312-697-2260
cker Electronics Co Garland TX.....	214-348-8800
Test Equip Div Viz Mfg Co.....	
Philadelphia PA.....	215-844-2626

METERS—STANDING WAVE

RD ELECTRONIC CORP.....	
CLEVELAND (SOLO) OH.....	216-248-1200
d Electronic Corp Cleveland (Solon) OH.....	216-248-1200
nnecticut Microwave Corp Canton CT.....	203-693-4247
ntstar Rental Electronics Inc.....	
Woodland Hills CA.....	818-887-4000
ris Corp Govt Support Sys Div.....	
Syosset NY.....	516-364-0400
wlett-Packard Palo Alto CA.....	415-857-8000
ronics Industries Ltd St Petersburg FL.....	813-577-9010

Maury Microwave Corp Cucamonga CA.....	714-987-4715
Simpson Electric Co Elgin IL.....	312-697-2260
Struthers Electronics Corp Farmingdale NY.....	516-420-9000
Tucker Electronics Co Garland TX.....	214-348-8800
Wavetek Pacific Measurements Inc.....	
Sunnyvale CA.....	408-734-5780
Weinschel Engineering Co Inc.....	
Galtersburg MD.....	301-948-3434
Wiltron Co Morgan Hill CA.....	408-778-2000

METERS—STATIC CONTROL

HUNTER PRODUCTS INC.....	
BRIDGEWATER NJ.....	201-526-8440
ACL Inc Elk Grove Village IL.....	312-981-9212
Chapman Corp Portland ME.....	207-773-4726
John Chubb Instrumentation.....	
Cheltenham Glos GB.....	0242-573347
Hunter Products Inc Bridgewater NJ.....	201-526-8440
Scientific Enterprises Inc Broomfield CO.....	303-469-7801
Sealed Air Corp Fair Lawn NJ.....	201-797-4000
Static Inc Skippack PA.....	215-584-9600
Wescorp Div DAL Indus Inc Mt View CA.....	415-969-7717

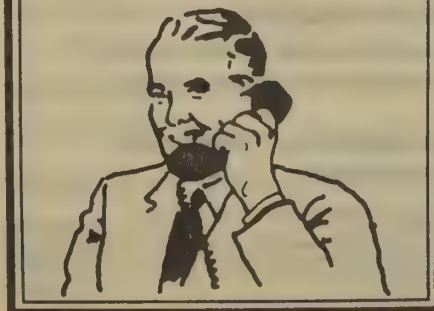
METERS—TENSION

COIL WINDING EQUIPMENT CO INC.....	
OYSTER BAY NY.....	516-922-5660
ENVIROMARINE SYSTEMS INC.....	
LAUREL MD.....	301-598-8833
OMEGA ENGINEERING INC.....	
STAMFORD CT.....	203-359-1660
ADV PG Gatefold.....	
Acrotech Brea CA.....	714-529-4666
Azonix Corp Burlington MA.....	617-273-5550
Chatillon & Sons John Kew Gardens NY.....	718-847-5000
Coil Winding Equipment Co Inc.....	
Oyster Bay NY.....	516-922-5660
Dillon & Co Inc W C Santa Rosa CA.....	707-527-5555
Electromatic Engineering Co Inc.....	
Cedarhurst NY.....	516-295-4300
Engineered Technical Products Inc.....	
Somerville NJ.....	201-725-0330
Enviromarine Systems Inc Laurel MD.....	301-598-8833
GSE Inc Farmington Hills MI.....	313-476-7875
Martin-Decker Cedar Park TX.....	512-331-0411
Omega Engineering Inc Stamford CT.....	203-359-1660
Tentron Inc Harvard MA.....	617-456-3511
Tentel Campbell CA.....	408-379-1881
West Coast Research Corp Los Angeles CA.....	213-478-8833

METERS—THERMOCOUPLE

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"How do I
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contact
and how to
reach him?"
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green pages
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book.



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METERS—VIBRATION

See Vibration Analysis Equipment; Vibration

Monitors

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Melles Griot Irvine CA.....	714-556-8200
Microwave Development Labs Inc Natlick MA.....	617-855-0060
Mykroy/Mycalex Clifton NJ.....	201-779-8866
Precision Paper Tube Co Wheeling IL.....	312-573-4250
Spruce Pine Mica Co Inc Spruce Pine NC.....	704-765-4241

MICA—NATURAL

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BENSENVILLE IL.....	312-766-7800
Asheville-Schoonmaker Mica Co.....	
Newport News VA.....	804-244-7311
Cleveland Mica Co Lakewood OH.....	216-226-1360
Essex Group/IWI Ft Wayne IN.....	219-461-4000
Magnetic Shield Div Perfection Mica Co.....	
Bensenville IL.....	312-766-7800
Micacraft Products Inc Newark NJ.....	201-623-4074
Pierce Magnetics Los Angeles CA.....	213-264-7855
Spruce Pine Mica Co Inc Spruce Pine NC.....	704-765-4241

MICA—SYNTHETIC

Asheville-Schoonmaker Mica Co.....	
Newport News VA.....	804-244-7311
Mykroy/Mycalex Clifton NJ.....	201-779-8866
Spruce Pine Mica Co Inc Spruce Pine NC.....	704-765-4241

MICA PARTS—NATURAL OR SYNTHETIC

CONCORD ELECTRONICS CORP.....	
NEW YORK NY.....	212-777-6571
KEystone ELECTRONICS CORP.....	
NEW YORK NY.....	212-475-4600
MAGNETIC SHIELD DIV PERFECTION MICA CO.....	
BENSENVILLE IL.....	312-766-7800
Asheville-Schoonmaker Mica Co.....	
Newport News VA.....	804-244-7311
Blinn Co Inc Delbert Pomona CA.....	213-628-8794
Cleveland Mica Co Lakewood OH.....	216-226-1360
Concord Electronics Corp New York NY.....	212-777-6571
Essex Group/IWI Ft Wayne IN.....	219-461-4000
Keystone Electronics Corp New York NY.....	212-475-4600
Magnetic Shield Div Perfection Mica Co.....	
Bensenville IL.....	312-766-7800
Melles Griot Irvine CA.....	714-556-8200
Micacraft Products Inc Newark NJ.....	201-623-4074
Mykroy/Mycalex Clifton NJ.....	201-779-8866
Pierce Magnetics Los Angeles CA.....	213-264-7855
Seastrom Mfg Co Inc Glendale CA.....	213-245-9121
Spruce Pine Mica Co Inc Spruce Pine NC.....	704-765-4241
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
United Mineral & Chemical Corp.....	
New York NY.....	212-966-4330

MICA TAPE

Asheville-Schoonmaker Mica Co.....	
Newport News VA.....	804-244-7311
Essex Group/IWI Ft Wayne IN.....	219-461-4000
Micacraft Products Inc Newark NJ.....	201-623-4074
Spruce Pine Mica Co Inc Spruce Pine NC.....	704-765-4241

MICA TUBING

Asheville-Schoonmaker Mica Co.....	
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Essex Group/IWI Ft Wayne IN.....	219-461-4000
Micacraft Products Inc Newark NJ.....	201-623-4074
Spruce Pine Mica Co Inc Spruce Pine NC.....	704-765-4241

MICROAMMETERS

See Ammeters

MICROCOMPUTERS

See Computers, Digital—Microcomputers; ICs,
Monolithic, Standard—Digital, Microprocessors &
Microcomputers

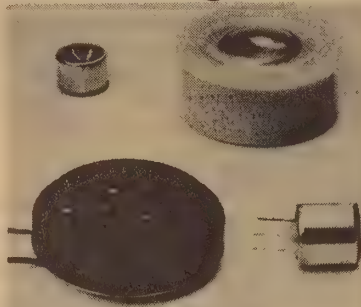
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See Also Amplifiers; Converters; Modules; Etc.

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MICROMETERS

See Gages—Dimension

MICROPHONE PROBES

See Probes—Acoustic

MICROPHONES

See Also Probes—Acoustic

CORD ELECTRONICS INC WESTBURY NY	516-935-3640
ADV PG 276	
MG ELECTRONICS HAUPPAUGE NY	516-582-3400
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
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Cetec Raymer North Hollywood CA.....	213-875-0423
David Clark Co Inc Worcester MA.....	617-756-6216
Controlronics Corp Westford MA.....	617-692-3000
Cord Electronics Inc Westbury NY.....	516-935-3640
Electro-Voice Inc Sub Gulton Industries Buchanan MI.....	616-695-6831
Ercona Corp Port Jeffers Sta NY.....	516-331-5500
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GC Electronics Div Household Intl Rockford IL.....	815-968-9661
General Aviation Electronics Inc Indianapolis IN.....	317-262-2000
Gen Rad Inc Waltham MA.....	617-369-4400
Genstar Rental Electronics Inc Woodland Hills CA.....	818-887-4000
Godfrey Mfg Co Chicago IL.....	312-384-7550
Gordon Enterprises Inc North Hollywood CA.....	818-985-5500
Hy-Gain Div Telex Commun Inc Minneapolis MN.....	612-884-4051

Knowles Electronics Inc Franklin Park IL.....	312-455-3600
Kulite Semiconductor Products Inc Ridgefield NJ.....	201-945-3000
LZR Electronics Inc Gaithersburg MD.....	301-921-9440
Metrosonics Inc Rochester NY.....	716-334-7300
MG Electronics Hauppauge NY.....	516-582-3400
Nady Systems Inc Consumer Elctns Div Oakland CA.....	415-652-2411
Paso Sound Products Inc Pelham NY.....	914-738-4800
Philmore Mfg Co Inc Inwood NY.....	516-239-6161
Precision Electronics Inc Franklin Park IL.....	312-678-3222
Recoton Corp Long Island City NY.....	718-392-6442
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Roanwell Corp New York NY.....	212-989-1090
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Shure Brothers Inc Evanston IL.....	312-866-2200
Sony Communications Prods Co Park Ridge NJ.....	201-930-1000
Swintek Enterprises Campbell CA.....	408-378-8091
Telex Communications Inc Minneapolis MN.....	612-884-4051
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Comark Corp Medfield MA.....	617-359-8161
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Data General Corp Westboro MA.....	617-366-8911
Data I/O Corp Redmond WA.....	206-881-6444
Data-Sud/Systems US Inc Tempe AZ.....	602-438-1492
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Eder Industries Oak Creek WI.....	414-761-0400
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Gould Inc Design & Test Sys Div Santa Clara CA.....	408-988-6800
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Hewlett-Packard Palo Alto CA.....	415-857-8000
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Leasametric Inc Foster City CA.....	415-574-4441
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Micro Logic Corp Hackensack NJ.....	201-342-6518
Micro/sys Inc Glendale CA.....	818-244-4600
Mostek Corp Carrollton TX.....	214-466-6000
Motorola Semiconductor Products Inc Phoenix AZ.....	602-244-6900
Mupac Corp Brockton MA.....	617-588-6110
NEC Electronics Inc Mtn View CA.....	415-960-6000
Nicolet Paratronics Corp Fremont CA.....	415-490-8300
OmniByte Corp West Chicago IL.....	312-231-6880
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Texas Instruments Optoelectronics Dallas TX.....	214-995-6611
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Tylan Corp Carson CA.....	213-518-3610
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Xycom Inc Saline MI.....	313-429-4971
Zendex Corp Dublin CA.....	415-828-3000
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See ICs, Monolithic, Standard—Digital,

Microprocessors & Microcomputers

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Ealing Corp South Natick MA.....	617-655-7000
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Engineered Technical Products Inc Somerville NJ.....	201-725-0330
Ercona Corp Port Jeffers Sta NY.....	516-331-5500

Gaertner Scientific Corp Chicago IL.....	312-281-53
Nikon Inc Instrument Group Garden City NY.....	516-222-02
Optilab Inc Phoenix AZ.....	602-271-09
Rank Precision Industries Inc Des Plaines IL.....	312-297-77
Carl Zeiss Inc Thornwood NY.....	914-747-18

MICROSCOPES—ELECTRONIC

See Electron Microscopes; Infrared Systems—Scanning Microscopes

MICROSCOPES—INSPECTION, QC/RESEARCH

HUNTER PRODUCTS INC BRIDGEWATER NJ	201-526-84
Alessi Industries Inc Costa Mesa CA.....	714-863-04
Amarel Precision Instr Inc Optem Div Penfield NY.....	716-381-63
Bausch & Lomb Optical Systems Div Rochester NY.....	716-338-60
Electrophysics Corp Nutley NJ.....	201-667-22
Hunter Products Inc Bridgewater NJ.....	201-526-84
Leco Corp St Joseph MI.....	616-983-55
Mark V Lab Inc East Granby CT.....	203-653-72
Melies Griot Irvine CA.....	714-556-82
Metron Optics Inc Solana Beach CA.....	619-755-44
Nanonometrics Inc Sunnyvale CA.....	408-735-10
Nikon Inc Instrument Group Garden City NY.....	516-222-02
Olympus Corp Lake Success NY.....	516-488-38
Ragen Corp North Arlington NJ.....	201-997-10
Reichert Scientific Instr Div Warner-Lambert Technologies Buffalo NY.....	716-891-30
Research Devices Div Amer Optical Corp Berkeley HTs NJ.....	201-464-06
Solder Absorbing Technology Springfield MA.....	413-788-61
Vickers Instruments Inc Malden MA.....	617-324-03
Carl Zeiss Inc Thornwood NY.....	914-747-18
Zi-Tech Instrument Corp Palo Alto CA.....	415-326-21

MICROSCOPES—STEREOSCOPIC

Alessi Industries Inc Costa Mesa CA.....	714-863-04
Amarel Precision Instr Inc Optem Div Penfield NY.....	716-381-63
Aristo Grid Lamp Products Inc Port Washington NY.....	516-944-30
Bausch & Lomb Optical Systems Div Rochester NY.....	716-338-60
Ercona Corp Port Jeffers Sta NY.....	516-331-55
Leco Corp St Joseph MI.....	616-983-55
Mark V Lab Inc East Granby CT.....	203-653-72
Metron Optics Inc Solana Beach CA.....	619-755-44
Nikon Inc Instrument Group Garden City NY.....	516-222-02
Olympus Corp Lake Success NY.....	516-488-38
Reichert Scientific Instr Div Warner-Lambert Technologies Buffalo NY.....	716-891-30
Carl Zeiss Inc Thornwood NY.....	914-747-18

MICROSTRIP CIRCUITS

See Microwave Circuits

MICROSTRIP SUBSTRATES

See Substrates; Printed Circuit

Laminates—Microwave Stripline

MICROVOLTMETERS

See Voltmeters

MICROWAVE AMPLIFIERS

See Amplifiers, R-F

MICROWAVE ANTENNAS & PARTS

See Antenna Listings

MICROWAVE ATTENUATORS

See Attenuators

MICROWAVE BOLOMETERS

GENERAL MICROWAVE CORP AMITYVILLE NY	516-226-81
Alpha Industries Inc Woburn MA.....	617-935-5
Diamond Antenna & Microwave Corp Winchester MA.....	617-729-5
General Microwave Corp Amityville NY.....	516-226-8
Genstar Rental Electronics Inc Woodland Hills CA.....	818-887-4
Harris Corp Govt Support Sys Div Syosset NY.....	516-364-0
MSI Electronics Inc Woodside NY.....	718-672-6
The Narda Microwave Corp Hauppauge NY.....	516-231-1
Struthers Electronics Corp Farmingdale NY.....	516-420-9
Wainschel Engineering Co Inc Gaithersburg MD.....	301-948-3

MICROWAVE CALORIMETERS

ND ELECTRONIC CORP	216-248-1200
CLEVELAND (SOLO) OH	
Alpha Industries Inc Woburn MA	617-935-5150
Delta Electronic Corp Cleveland (Solon) OH	216-248-1200
Electro Impulse Lab Inc Red Bank NJ	201-741-0404
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Corp Govt Support Sys Div	
Yosseset NY	516-364-0400
Hughes Aircraft Co Microwave Prods Div	
Torrance CA	213-517-6400
Scientific Instrument Corp El Cajon CA	619-444-2158

MICROWAVE CAVITIES—TUNABLE

MICROWAVE CONTROL DIV MICON INC

BRICK NJ	201-458-3000
Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
Mermaid Microwave Co Edinburg VA	703-984-8848
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Eastern Microwave Corp Woburn MA	617-935-8600
Esco Inc Westwood MA	617-329-1500
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Corp Govt Support Sys Div	
Yosseset NY	516-364-0400
Industrial Microwave Corp Scotch Plains NJ	201-322-4411
J & L Microwave Inc Salisbury MD	301-749-2424
Ch Electronics Corp Englewood NJ	201-569-8282
A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
A-COM Microwave Components Inc	
Burlington MA	617-272-3000
L Inc La Grange IL	312-354-4350
Esco Corp Carle Place NY	516-333-0655
Metropole Products Inc Stafford VA	703-659-2132
microwave Control Div Micon Inc Brick NJ	201-458-3000
Premier Microwave Corp Port Chester NY	914-939-8900
ve Electronics Div Melissa & Murray	
Chicago IL	312-670-0150
Inc Tampa FL	813-872-1502
C Electronics Inc Mt Kisco NY	914-241-1334
uthers Electronics Corp Farmingdale NY	516-420-9000
msom-CSF Electron Tube Div	
Rutherford NJ	201-438-2300
k Microwave Corp Tampa FL	813-884-1411
E Microwave Inc Asbury Park NJ	201-922-1009
ian Electron Device Group Palo Alto CA	415-493-4000
tor Microwave Inc Wakefield MA	617-245-4472
Johnson Co Palo Alto CA	415-493-4141

MICROWAVE CIRCUITS—MICROSTRIP

C (INCL. FILTERS)

GENERAL MICROWAVE CORP

MITTVILLE NY	516-226-8900
ms-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
aren Microwave Inc E Syracuse NY	315-432-8909
rolab Inc Warren NJ	201-560-3800
ntek Inc Santa Clara CA	408-496-6710
nstron Corp Freeport NY	516-546-9700
mond Antenna & Microwave Corp	
Winchester MA	617-729-5500
on Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
ilon-Lambda Electronics Corp Geneva IL	312-232-9611
neral Microwave Corp Amityville NY	516-226-8900
ris Corp Govt Sys Sector Melbourne FL	305-727-4000
newell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
I Electronics Inc Whippany NJ	201-887-8100
ne Corp Laminates Div Bear DE	302-834-2100
A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
Delta Microwave Corp Hauppauge NY	516-231-1700
Photofabrication Technology Inc Derry NH	603-432-1200
rmier Microwave Corp Port Chester NY	914-939-8900
G Electronics Lab Inc Deer Park NY	516-242-1100
C Electronics Inc Mt Kisco NY	914-241-1334
ckwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
dale Electronics Corp Garden City NY	516-222-0050
gers Corp Rogers CT	203-774-9605
edyne Microelectronics Los Angeles CA	213-870-9831
k Microwave Corp Tampa FL	813-884-1411
ngle Microwave Inc East Hanover NJ	201-884-1423
ian Electron Device Group Palo Alto CA	415-493-4000
-L Co Inc Denver CO	303-371-1560
stern Microwave Sunnyvale CA	408-734-1631

MICROWAVE CIRCUITS—STRIPLINE

(INCL. FILTERS)

GENERAL MICROWAVE CORP

MITTVILLE NY	516-226-8900
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
IDV PG 279	
iron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
American Nucleonics Corp Westlake Vig CA	805-496-2405
aren Microwave Inc E Syracuse NY	315-432-8909
Applied Research Inc Plainview NY	516-349-9200
Inc Bay Shore NY	516-231-8400
rolab Inc Warren NJ	201-560-3800

Ball Aerospace Systems Div Boulder CO	303-939-4000
Coleman Microwave Co Edinburg VA	703-984-8848
Comstron Corp Freeport NY	516-546-9700
Dayton Granger Inc Ft Lauderdale FL	305-463-3451
Delta Microwave Inc Camarillo CA	805-987-6892
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
Ferrite Control Co Div Micon Inc Brick NJ	201-458-3333
General Microwave Corp Amityville NY	516-226-8900
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
Hughes Aircraft Co Microwave Prods Div	
Torrance CA	213-517-6400
KDI Electronics Inc Whippany NJ	201-887-8100
Keene Corp Laminates Div Bear DE	302-834-2100
Kollmorgen Corp PCK Technology Div	
Melville NY	516-454-4400
KW Engineering Inc San Diego CA	619-571-8444
Lark Engineering Co Inc	
San Juan Capistrano CA	714-493-9501
Leighton Electronics Inc Leighton PA	215-977-5990
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
Merimac Industries Inc West Caldwell NJ	201-575-1300
The Narda Microwave Corp Hauppauge NY	516-231-1700
North Hills Electronics Inc Glen Cove NY	516-671-5700
Optifab Inc Phoenix AZ	602-271-0921
Photofabrication Technology Inc Derry NH	603-432-1200
Premier Microwave Corp Port Chester NY	914-939-8900
RHG Electronics Lab Inc Deer Park NY	516-242-1100
RLC Electronics Inc Mt Kisco NY	914-241-1334
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Rodale Electronics Corp Garden City NY	516-222-0050
Rogers Corp Rogers CT	203-774-9605
Sanders Associates Inc Nashua NH	603-885-4321
Struthers Electronics Corp Farmingdale NY	516-420-9000
Systems Research Labs Inc Dayton OH	513-426-6000
Technical Research & Mfg Inc	
Manchester NH	603-668-0210
Teledyne Microelectronics Los Angeles CA	213-870-9831
Telonic/Berkeley Laguna Beach CA	714-494-9401
Trak Microwave Corp Tampa FL	813-884-1411
Triangle Microwave Inc East Hanover NJ	201-884-1423
Varian Electron Device Group Palo Alto CA	415-493-4000
Western Microwave Sunnyvale CA	408-734-1631

MICROWAVE CIRCULATORS & GYRATORS

MICROWAVE CONTROL DIV MICON INC

BRICK NJ	201-458-3000
TDK CORP TOKYO JAPAN	03-278-5111
Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
Amperex Electronic Corp Hicksville Div	
Hicksville NY	516-931-6200
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
Electromagnetic Sciences Inc Norcross GA	404-448-5770
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Ferrite Control Co Div Micon Inc Brick NJ	201-458-3333
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Hughes Aircraft Co Microwave Prods Div	
Torrance CA	213-517-6400
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA	617-272-3000
Mauri Microwave Corp Cucamonga CA	714-987-4715
Merimac Industries Inc West Caldwell NJ	201-575-1300
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Microwave Development Labs Inc Natick MA	617-655-0060
Microwave Engineering Corp	
North Andover MA	617-685-2776
Phillips Electronic Comps & Matis Div	
Eindhoven Netherlands	040791111
Premier Microwave Corp Port Chester NY	914-939-8900
RYT Industries Santa Clara CA	408-727-5750
TDK Corp Tokyo Japan	03-278-5111
Teledyne Microwave Mtn View CA	415-968-2211
Trak Microwave Corp Tampa FL	813-884-1411
Triangle Microwave Inc East Hanover NJ	201-884-1423
TRW Microwave Sunnyvale CA	408-732-0880
UTE Microwave Inc Asbury Park NJ	201-922-1009
Varian Electron Device Group Palo Alto CA	415-493-4000
Western Microwave Sunnyvale CA	408-734-1631

MICROWAVE COUPLERS—DIRECTIONAL

See Couplers

MICROWAVE DETECTORS

See Detectors; Diodes

MICROWAVE DIELECTROMETERS

Alpha Industries Inc Woburn MA	617-935-5150
Micro-Now Instrument Co Inc Skokie IL	312-677-4700
Premier Microwave Corp Port Chester NY	914-939-8900
Rutherford Research Co Rutherford NJ	201-933-2091

MICROWAVE DUPLEXERS (INCL. RADAR)

SANDERS ASSOCIATES INC NASHUA NH

ADV PG 279

TDK CORP TOKYO JAPAN

Airtron Div Litton Systems Inc

Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
Anaren Microwave Inc E Syracuse NY	315-432-8909
Applied Research Inc Plainview NY	516-349-9200
Coleman Microwave Co Edinburg VA	703-984-8848
Delta Microwave Inc Camarillo CA	805-987-6892
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Eastern Microwave Corp Woburn MA	617-935-8600
Eaton Corp AIL Div Deer Park NY	516-595-5000
EEV Inc Elmsford NY	914-592-6050
Electromagnetic Sciences Inc Norcross GA	404-448-5770
Ferrite Control Co Div Micon Inc Brick NJ	201-458-3333
KDI Electronics Inc Whippany NJ	201-887-8100
KW Engineering Inc San Diego CA	619-571-8444
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA	617-272-3000
Premier Microwave Corp Port Chester NY	914-939-8900
Rodale Electronics Corp Garden City NY	516-222-0050
Sanders Associates Inc Nashua NH	603-885-4321
Struthers Electronics Corp Farmingdale NY	516-420-9000
TDK Corp Tokyo Japan	03-278-5111
Technical Research & Mfg Inc	
Manchester NH	603-668-0210
Technicraft Div Tech Systems Corp	
Thomaston CT	203-283-5801
Telonic/Berkeley Laguna Beach CA	714-494-9401
Trak Microwave Corp Tampa FL	813-884-1411
Transco Products Inc Camarillo CA	805-987-2201
Triangle Microwave Inc East Hanover NJ	201-884-1423
UTE Microwave Inc Asbury Park NJ	201-922-1009
Varian Electron Device Group Palo Alto CA	415-493-4000
Western Microwave Sunnyvale CA	408-734-1631

MICROWAVE ECHO BOXES

See Radar Echo Boxes

MICROWAVE FILTERS—COAXIAL

BIRD ELECTRONIC CORP

CLEVELAND (SOLO) OH

MURATA ERIE NORTH AMERICA INC

SMYRNA GA

SANDERS ASSOCIATES INC NASHUA NH

ADV PG 279

Airtron Div Litton Systems Inc

Morris Plains NJ	201-539-5500
American Nucleonics Corp Westlake Vig CA	805-496-2405
Applied Research Inc Plainview NY	516-349-9200
Arra Inc Bay Shore NY	516-231-8400
Bird Electronic Corp Cleveland (Solon) OH	216-248-1200
Coleman Microwave Co Edinburg VA	703-984-8848
Comstron Corp Freeport NY	516-546-9700
Delta Microwave Inc Camarillo CA	805-987-6892
Eaton Corp AIL Div Deer Park NY	516-595-5000
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hewlett-Packard Palo Alto CA	415-857-8000
Integra Microwave Santa Clara CA	408-727-9601
K & L Microwave Inc Salisbury MD	301-749-2424
KDI Electronics Inc Whippany NJ	201-887-8100
KW Engineering Inc San Diego CA	619-571-8444
Lark Engineering Co Inc	
San Juan Capistrano CA	714-493-9501
Lorch Electronics Corp Englewood NJ	201-569-8282
Mauri Microwave Corp Cucamonga CA	714-987-4715
MCL Inc La Grange IL	312-354-4350
Metropole Products Inc Stafford VA	703-659-2132
Micro-Coax Components Inc Collegeville PA	215-489-3700
Microwave Development Labs Inc Natick MA	617-655-0060
Microwave Engineering Corp	
North Andover MA	617-685-2776
MITEO Inc Hauppauge NY	516-543-8873
Mu-Dei Electronics Inc Silver Spring MD	301-587-6087
Murata Erie North America Inc Smyrna GA	404-436-1300
North Hills Electronics Inc Glen Cove NY	516-671-5700
Premier Micros Inc Mt Kisco NY	914-939-8900
RYT Industries Santa Clara CA	408-727-5750
Sage Laboratories Inc Natick MA	617-653-0844
Sanders Associates Inc Nashua NH	603-885-4321
Sealectro Corp Trumbull CT	203-372-4118
Struthers Electronics Corp Farmingdale NY	516-420-9000
Telodyne Microwave Mtn View CA	415-968-2211
Telonic/Berkeley Laguna Beach CA	714-494-9401
Trak Microwave Corp Tampa FL	813-884-1411
Transco Products Inc Camarillo CA	805-987-2201
Triangle Microwave Inc East Hanover NJ	201-884-1423
UTE Microwave Inc Asbury Park NJ	201-922-1009
Varian Electron Device Group Palo Alto CA	415-493-4000
Watkins-Johnson Co Palo Alto CA	415-493-4141
Western Microwave Sunnyvale CA	408-734-1631
Wiltron Co Morgan Hill CA	408-778-2000
Wincom Corp Woburn MA	617-935-6212

MICROWAVE FILTERS—WAVEGUIDE

Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500

Antennas for Communications Inc Ocala FL	904-687-4121
Arra Inc Bay Shore NY	516-231-8400
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Chomerics Inc Woburn MA	617-935-4850
Coleman Microwave Co Edinburg VA	703-984-8848
Delta Microwave Inc Camarillo CA	805-987-6892
Eastern Microwave Corp Woburn MA	617-935-8600
Eaton Corp AIL Div Deer Park NY	516-595-5000
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Gamma-F Corp Torrance CA	213-539-6704
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hewlett-Packard Palo Alto CA	415-857-8000
Industrial Microwave Corp Scotch Plains NJ	201-322-4411
K & L Microwave Inc Salisbury MD	301-749-2424
KW Engineering Inc San Diego CA	619-571-8444
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
Maury Microwave Corp Cucamonga CA	714-987-4715
Metropole Products Inc Stafford VA	703-659-2132
Micro-Coax Components Inc Collegeville PA	215-489-3700
Microwave Development Labs Inc Natick MA	617-655-0060
Microwave Engineering Corp	
North Andover MA	617-685-2776
Premier Microwave Corp Port Chester NY	914-939-8900
Sage Laboratories Inc Natick MA	617-653-0844
Struthers Electronics Corp Farmingdale NY	516-420-9000
Technicraft Div Tech Systems Corp	
Thomaston CT	203-283-5801
Teledyne Microwave Mtn View CA	415-968-2211
Telonic/Berkeley Laguna Beach CA	714-494-9401
Transco Products Inc Camarillo CA	805-987-2201
UTE Microwave Inc Asbury Park NJ	201-922-1009
Varian Electron Device Group Palo Alto CA	415-493-4000
Victor Microwave Inc Wakefield MA	617-245-4472
Watkins-Johnson Co Palo Alto CA	415-493-4141
Waveline Inc West Caldwell NJ	201-226-9100
Western Microwave Sunnyvale CA	408-734-1631
Wincom Corp Woburn MA	617-935-6212

MICROWAVE FREQUENCY COUNTERS & STANDARDS

See Counters; Standards

MICROWAVE FREQUENCY DIVIDERS & DOWN CONVERTERS

Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Alpha Industries Inc Woburn MA	617-935-5150
Anaren Microwave Inc E Syracuse NY	315-432-8909
Anritsu America Inc Oakland NJ	201-337-1111
Applied Research Inc Plainfield NY	516-349-9200
Avantek Inc Santa Clara CA	408-496-6710
California Microwave Inc Sunnyvale CA	408-732-4000
Eaton Corp AIL Div Deer Park NY	516-595-5000
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Hewlett-Packard Palo Alto CA	415-857-8000
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
KW Engineering Inc San Diego CA	619-571-8444
LNR Communications Inc Hauppauge NY	516-273-7111
Locus Inc State College PA	814-466-6275
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000
M/A-COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA	617-272-3000
Merrimack Industries Inc West Caldwell NJ	201-575-1300
Micro-Now Instrument Co Inc Skokie IL	312-677-4700
MITEQ Inc Hauppauge NY	516-543-8873
Mitsumi Electronics Corp Melville NY	516-752-7730
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
North Hills Electronics Inc Glen Cove NY	516-671-5700
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Premier Microwave Corp Port Chester NY	914-939-8900
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Sage Laboratories Inc Natick MA	617-653-0844
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Scientific Communications Inc Garland TX	214-840-4900
Struthers Electronics Corp Farmingdale NY	516-420-9000
Teledyne Microelectronics Los Angeles CA	213-870-9831
TIW Systems Inc Sunnyvale CA	408-734-3900
Trak Microwave Corp Tampa FL	813-884-1411
Triangle Microwave Inc East Hanover NJ	201-884-1423
TRW Microwave Sunnyvale CA	408-732-0880
Varian Electron Device Group Palo Alto CA	415-493-4000
Var-L Co Inc Denver CO	303-371-1560
Watkins-Johnson Co Palo Alto CA	415-493-4141
Western Microwave Sunnyvale CA	408-734-1631
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

MICROWAVE FREQUENCY MULTIPLIERS & UP CONVERTERS

MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
Anaren Microwave Inc E Syracuse NY	315-432-8909
Anritsu America Inc Oakland NJ	201-337-1111
Applied Research Inc Plainfield NY	516-349-9200

California Microwave Inc Sunnyvale CA	408-732-4000
Eaton Corp AIL Div Deer Park NY	516-595-5000
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
KDI Electronics Inc Whippany NJ	201-887-8100
KW Engineering Inc San Diego CA	619-571-8444
LNR Communications Inc Hauppauge NY	516-273-7111
Locus Inc State College PA	814-466-6275
Local Data Systems/Conic San Diego CA	619-279-0411
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA	617-272-3000
Merrimack Industries Inc West Caldwell NJ	201-575-1300
Micro-Now Instrument Co Inc Skokie IL	312-677-4700
Microwave Control Div Micon Inc Brick NJ	201-458-3000
MITEQ Inc Hauppauge NY	516-543-8873
Mitsumi Electronics Corp Melville NY	516-752-7730
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
The Narda Microwave Corp Hauppauge NY	516-231-1700
North Hills Electronics Inc Glen Cove NY	516-671-5700
Premier Microwave Corp Port Chester NY	914-939-8900
RHG Electronics Lab Inc Deer Park NY	516-242-1100
RLC Electronics Inc Mt Kisco NY	914-241-1334
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Sage Laboratories Inc Natick MA	617-653-0844
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Struthers Electronics Corp Farmingdale NY	516-420-9000
Teledyne Microelectronics Los Angeles CA	213-870-9831
TIW Systems Inc Sunnyvale CA	408-734-3900
Trak Microwave Corp Tampa FL	813-884-1411
Triangle Microwave Inc East Hanover NJ	201-884-1423
TRW Microwave Sunnyvale CA	408-732-0880
Varian Electron Device Group Palo Alto CA	415-493-4000
Watkins-Johnson Co Palo Alto CA	415-493-4141
Western Microwave Sunnyvale CA	408-734-1631
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

MICROWAVE HYBRID JUNCTIONS & HYBRID TEES (COMPLETE ASSEMBLIES)

Adams-Russell Co Inc Amesbury MA	617-388-5210
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
Anaren Microwave Inc E Syracuse NY	315-432-8909
Arra Inc Bay Shore NY	516-231-8400
Astrolab Inc Warren NJ	201-560-3800
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Eastern Microwave Corp Woburn MA	617-935-8600
Gamma-F Corp Torrance CA	213-539-6704
Hughes Aircraft Co Microelectronic Circuits Div	
Newport Beach CA	714-759-2411
KDI Electronics Inc Whippany NJ	201-887-8100
Locus Inc State College PA	814-466-6275
M/A-COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA	617-272-3000
M/A-COM Omni Spectra Inc Merrimack NH	603-424-4111
Maury Microwave Corp Cucamonga CA	714-987-4715
Merrimack Industries Inc West Caldwell NJ	201-575-1300
Microwave Development Labs Inc Natick MA	617-655-0060
Microwave Engineering Corp	
North Andover MA	617-685-2776
The Narda Microwave Corp Hauppauge NY	516-231-1700
North Hills Electronics Inc Glen Cove NY	516-671-5700
Olektron Corp Webster MA	617-943-7440
Omega Laboratories Inc Rowley MA	617-948-7757
Premier Microwave Corp Port Chester NY	914-939-8900
RHG Electronics Lab Inc Deer Park NY	516-242-1100
RLC Electronics Inc Mt Kisco NY	914-241-1334
Sage Laboratories Inc Natick MA	617-653-0844
Struthers Electronics Corp Farmingdale NY	516-420-9000
Technical Research & Mfg Inc	
Manchester NH	603-668-0210
Technicraft Div Tech Systems Corp	
Thomaston CT	203-283-5801
Teledyne Microelectronics Los Angeles CA	213-870-9831
Transco Products Inc Camarillo CA	805-987-2201
Triangle Microwave Inc East Hanover NJ	201-884-1423
Varian Electron Device Group Palo Alto CA	415-493-4000
Waveline Inc West Caldwell NJ	201-226-9100
Western Microwave Sunnyvale CA	408-734-1631
Wincom Corp Woburn MA	617-935-6212

MICROWAVE ISOLATORS

TDK CORP TOKYO JAPAN	03-278-5111
Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
Eaton Corp AIL Div Deer Park NY	516-595-5000
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
Electromagnetic Sciences Inc Norcross GA	404-448-5770
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Ferrite Control Co Div Micon Inc Brick NJ	201-458-3333
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
Hughes Aircraft Co Microwave Prods Div	
Torrance CA	213-517-6400

Locus Inc State College PA	814-466-6275
M/A-COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA	617-272-3000
Maury Microwave Corp Cucamonga CA	714-987-4715
Merrimack Industries Inc West Caldwell NJ	201-575-1300
Microwave Development Labs Inc Natick MA	617-655-0060
Microwave Engineering Corp	
North Andover MA	617-685-2776
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Premier Microwave Corp Port Chester NY	914-939-8900
RYT Industries Santa Clara CA	408-727-5111
TDK Corp Tokyo Japan	03-278-5111
Teledyne Microwave Mtn View CA	415-968-2211
Trak Microwave Corp Tampa FL	813-884-1411
Triangle Microwave Inc East Hanover NJ	201-884-1423
TRW Microwave Sunnyvale CA	408-732-0880
UTE Microwave Inc Asbury Park NJ	201-922-1009
Varian Electron Device Group Palo Alto CA	415-493-4000
Western Microwave Sunnyvale CA	408-734-1631

MICROWAVE LENSES & WINDOWS (EXCEPT ANTENNA LENSES)

CERAMASEAL DIV CLEVEPAK CORP	
NEW LEBANON CENTER NY	518-794-78
Alpha Industries Inc Woburn MA	617-935-5150
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Ceramaseal Div Clevepak Corp	
New Lebanon Center NY	518-794-78
Chemical Fabrics Corp Merrimack NH	603-424-9000
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Microwave Development Labs Inc Natick MA	617-655-0060
Microwave Engineering Corp	
North Andover MA	617-685-2776
Milliflect Inc Newark CA	415-791-5111
National Beryllia Div/General Ceramics Inc	
Haskell NJ	201-839-1611
Premier Microwave Corp Port Chester NY	914-939-8900
Teledyne Microelectronics San Diego CA	619-583-3555
Waveline Inc West Caldwell NJ	201-226-9100

MICROWAVE LINE STRETCHERS

Alpha Industries Inc Woburn MA	617-935-5150
Arra Inc Bay Shore NY	516-231-8400
Astrolab Inc Warren NJ	201-560-3800
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Ferrite Control Co Div Micon Inc Brick NJ	201-458-3333
Hirose Electric USA Inc Chatsworth CA	818-709-1212
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
KDI Electronics Inc Whippany NJ	201-887-8100
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A-COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
M/A-COM Omni Spectra Inc Merrimack NH	603-424-4111
Maury Microwave Corp Cucamonga CA	714-987-4715
The Narda Microwave Corp Hauppauge NY	516-231-1700
Omega Laboratories Inc Rowley MA	617-948-7757
Premier Microwave Corp Port Chester NY	914-939-8900
RLC Electronics Inc Mt Kisco NY	914-241-1334
Sage Laboratories Inc Natick MA	617-653-0844
Struthers Electronics Corp Farmingdale NY	516-420-9000
Waveline Inc West Caldwell NJ	201-226-9100
Wiltron Co Morgan Hill CA	408-778-2000

MICROWAVE MATERIALS

See Materials Reference List

MICROWAVE MIXERS

ALUMINUM DESIGN CORP	
BROOKFIELD IL	312-387-31
SANDERS ASSOCIATES INC NASHUA NH	603-885-43
ADV PG 279	
TDK CORP TOKYO JAPAN	03-278-51
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
Aluminum Design Corp Brookfield IL	312-387-31
Anaren Microwave Inc E Syracuse NY	315-432-8909
Avantek Inc Santa Clara CA	408-496-6710
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Eastern Microwave Corp Woburn MA	617-935-8600
Eaton Corp AIL Div Deer Park NY	516-595-5000
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
Elcom Systems Inc Boca Raton FL	305-994-1700
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Hewlett-Packard Palo Alto CA	415-857-8000
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
Hughes Aircraft Co Microwave Prods Div	
Torrance CA	213-517-6400

International Microwave Corp Stamford CT.....	203-323-5599
DI Electronics Inc Whippary NJ.....	201-887-8100
NR Communications Inc Hauppauge NY.....	516-273-7111
Oral Data Systems/Conic San Diego CA.....	619-279-0411
Orch Electronics Corp Englewood NJ.....	201-569-8282
/A-COM Advanced Semiconductor Oper	
Burlington MA.....	617-272-3000
/A-COM Microwave Circuits Inc	
Burlington MA.....	617-272-3000
/A-COM Microwave Components Inc	
Burlington MA.....	617-272-3000
/A-COM Millimeter Products Inc	
Burlington MA.....	617-272-3000
/A-COM Solid State Circuits Hudson NH.....	603-880-1911
Micro-Now Instrument Co Inc Skokie IL.....	312-677-4700
Microwave Development Labs Inc Natick MA.....	617-655-0060
Mini-Circuits Lab Brooklyn NY.....	718-934-4500
ITEQ Inc Hauppauge NY.....	516-543-8873
North Hills Electronics Inc Glen Cove NY.....	516-671-5700
Premier Microwave Corp Port Chester NY.....	914-939-8900
HG Electronics Lab Inc Deer Park NY.....	516-242-1100
Omega Laboratories Inc Natick MA.....	617-653-0844
Sanders Associates Inc Nashua NH.....	603-885-4321
Struthers Electronics Corp Farmingdale NY.....	516-420-9000
OK Corp Tokyo Japan.....	03-278-5111
Technical Research & Mfg Inc	
Manchester NH.....	603-668-0210
Technicraft Div Tech Systems Corp	
Thomaston CT.....	203-283-5801
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Transco Products Inc Camarillo CA.....	805-987-2201
Triangle Microwave Inc East Hanover NJ.....	201-884-1423
Vari-Microwave Sunnyvale CA.....	408-732-0880
Varian Electron Device Group Palo Alto CA.....	415-493-4000
Vari-L Co Inc Denver CO.....	303-371-1560
Vactor Microwave Inc Wakefield MA.....	617-245-4472
Watkins-Johnson Co Palo Alto CA.....	415-493-4141
Weinschel Engineering Co Inc	
Gaithersburg MD.....	301-948-3434
Western Microwave Sunnyvale CA.....	408-734-1631

MICROWAVE MODULATORS

See Modulators

MICROWAVE MOUNTS (INCL. DIODE, BOLOMETERS & THERMISTOR)

ADJO-RESEARCH INSTRUMENT CO INC	
DANBURY CT.....	203-792-6666
Alpha Industries Inc Woburn MA.....	617-935-5150
Arnold Condenser Corp Lindenhurst NY.....	516-957-7200
Arnold Antenna & Microwave Corp	
Winchester MA.....	617-729-5500
Eastern Microwave Corp Woburn MA.....	617-935-8600
Com Systems Inc Boca Raton FL.....	305-994-1774
Instar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Oris Corp Govt Support Sys Div	
Syosset NY.....	516-364-0400
Wiet-Packard Palo Alto CA.....	415-857-8000
DI Electronics Inc Whippary NJ.....	201-887-8100
/A-COM Microwave Circuits Inc	
Burlington MA.....	617-272-3000
/A-COM Microwave Components Inc	
Burlington MA.....	617-272-3000
/A-COM Millimeter Products Inc	
Burlington MA.....	617-272-3000
ury Microwave Corp Cucamonga CA.....	714-987-4715
ro-Mounting Devices Inc Campbell CA.....	408-866-4826
owave Development Labs Inc Natick MA.....	617-655-0060
re Narda Microwave Corp Hauppauge NY.....	516-231-1700
mega Laboratories Inc Rowley MA.....	617-948-7757
emier Microwave Corp Port Chester NY.....	914-939-8900
adio-Research Instrument Co Inc	
Danbury CT.....	203-792-6666
ige Laboratories Inc Natick MA.....	617-653-0844
etron International Inc Buffalo NY.....	716-854-3443
others Electronics Corp Farmingdale NY.....	516-420-9000
ational Industries Inc Rochester NY.....	516-232-1291
tor Microwave Inc Wakefield MA.....	617-245-4472
aveline Inc West Caldwell NJ.....	201-226-9100
einschel Engineering Co Inc	
Gaithersburg MD.....	301-948-3434

MICROWAVE MULTIPLEXERS

See Multiplexers

MICROWAVE OSCILLATORS

See Diodes; Oscillators

MICROWAVE OVENS & DRYERS

See Ovens & Dryers

MICROWAVE PHASED ARRAY BEAMED

STEERING NETWORKS

SANDERS ASSOCIATES INC NASHUA NH.....	603-885-4321
ADV PG 279	
Adams-Russell Co Inc Anzac Div	
Burlington MA.....	617-273-3333

Addresses, phones & sales offices, see green pages

SANDERS ASSOCIATES, INC.
MICROWAVE DIVISION

955 Perimeter Road, Manchester, NH 03108-8500, (603) 645-6000, Telex 094-3430

Sanders expertise in the electronic warfare arena has established us as a world leader in critical high quality microwave components and subsystems comprised of: Digital Frequency Measurement Devices, Sources (DTO, DSO, DRO, VCO, Synthesizers), Amplifiers and various Control Devices.



SANDERS

Anaren Microwave Inc E Syracuse NY.....	315-432-8909
Eaton Corp All Div Deer Park NY.....	516-595-5000
Electromagnetic Sciences Inc Norcross GA.....	404-448-5770
Harris Corp Govt Sys Sector Melbourne FL.....	305-727-4000
Hughes Aircraft Co Microwave Circuits Div	
Newport Beach CA.....	714-759-2411
M/A-COM Advanced Semiconductor Oper	
Burlington MA.....	617-272-3000
M/A-COM Microwave Circuits Inc	
Burlington MA.....	617-272-3000
Microwave Applications Group	
Santa Maria CA.....	805-928-5711
Olektron Corp Webster MA.....	617-943-7440
Premier Microwave Corp Port Chester NY.....	914-939-8900
Sanders Associates Inc Nashua NH.....	603-885-4321
Teledyne Microelectronics San Diego CA.....	619-683-3525
Triangle Microwave Inc East Hanover NJ.....	201-884-1423

MICROWAVE PHASE SHIFTERS

GENERAL MICROWAVE CORP	
AMITYVILLE NY.....	516-226-8900
SANDERS ASSOCIATES INC NASHUA NH.....	603-885-4321
ADV PG 279	
Airtron Div Litton Systems Inc	
Morris Plains NJ.....	201-539-5500
Alpha Industries Inc Woburn MA.....	617-935-5150
Arra Inc Bay Shore NY.....	516-231-1840
Daico Industries Inc Compton CA.....	213-631-1143
Delta Microwave Inc Camarillo CA.....	805-987-6892
Diamond Antenna & Microwave Corp	
Winchester MA.....	617-729-5500
Eastern Microwave Corp Woburn MA.....	617-935-8600
Electromagnetic Sciences Inc Norcross GA.....	404-448-5770
Ferrite Control Co Div Micon Inc Brick NJ.....	201-458-3333
General Microwave Corp Amityville NY.....	516-226-8900
Hewlett-Packard Palo Alto CA.....	415-857-8000
Hirose Electric USA Inc Chatsworth CA.....	818-709-1247
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA.....	805-965-1013
Hughes Aircraft Co Microelectronic Circuits Div	
Newport Beach CA.....	714-759-2411
Hughes Aircraft Co Microwave Prods Div	
Torrance CA.....	213-517-6400
KDI Electronics Inc Whippary NJ.....	201-887-8100
Locus Inc State College PA.....	814-466-6275
M/A-COM Advanced Semiconductor Oper	
Burlington MA.....	617-272-3000
M/A-COM Microwave Circuits Inc	
Burlington MA.....	617-272-3000
M/A-COM Microwave Components Inc	
Burlington MA.....	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA.....	617-272-3000
M/A-COM Solid State Circuits Hudson NH.....	603-880-1911
Maury Microwave Corp Cucamonga CA.....	714-987-4715
Microwave Applications Group	
Santa Maria CA.....	805-928-5711
Microwave Development Labs Inc Natick MA.....	617-655-0060
Microwave Engineering Corp	
North Andover MA.....	617-685-2776
Mini-Circuits Lab Brooklyn NY.....	718-934-4500
Moseley Associates Inc Goleta CA.....	805-968-9621
Mu-Del Electronics Inc Silver Spring MD.....	301-587-6087
The Narda Microwave Corp Hauppauge NY.....	516-231-1700
North Hills Electronics Inc Glen Cove NY.....	516-671-5700
Olektron Corp Webster MA.....	617-943-7440
Omega Laboratories Inc Rowley MA.....	617-948-7757
Premier Microwave Corp Port Chester NY.....	914-939-8900
Reeve Electronics Div Mellisa & Murray	
Chicago IL.....	312-670-0150
RLC Electronics Inc Mt Kisco NY.....	914-241-1334
Sage Laboratories Inc Natick MA.....	617-653-0844
Sanders Associates Inc Nashua NH.....	603-885-4321
Struthers Electronics Corp Farmingdale NY.....	516-420-9000
Technical Research & Mfg Inc	
Manchester NH.....	603-668-0210
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Transco Products Inc Camarillo CA.....	805-987-2201
Triangle Microwave Inc East Hanover NJ.....	201-884-1423
Varian Electron Device Group Palo Alto CA.....	415-493-4000
Vari-L Co Inc Denver CO.....	303-371-1560
Varian Electron Device Group Palo Alto CA.....	415-493-4000
Vari-L Co Inc Denver CO.....	303-371-1560
Waveline Inc West Caldwell NJ.....	201-226-9100

MICROWAVE POWER BRIDGES

See Bridges

MICROWAVE POWER DIVIDERS

ALUMINUM DESIGN CORP	
BROOKFIELD IL.....	312-387-3100
BIRD ELECTRONIC CORP	
CLEVELAND (Solon) OH.....	216-248-1200
COMPAC HOLBROOK NY.....	516-585-3400
SANDERS ASSOCIATES INC NASHUA NH.....	603-885-4321
ADV PG 279	
Adams-Russell Co Inc Amesbury MA.....	617-388-5210
Adams-Russell Co Inc Anzac Div	
Burlington MA.....	617-273-3333
Airtron Div Litton Systems Inc	
Morris Plains NJ.....	201-539-5500
Alpha Industries Inc Woburn MA.....	617-935-5150
Aluminum Design Corp Brookfield IL.....	312-387-3100
American Nucleonics Corp Westlake Vlg CA.....	805-496-2405
Anaren Microwave Inc E Syracuse NY.....	315-432-8909
Applied Research Inc Plainview NY.....	516-439-9200
Arra Inc Bay Shore NY.....	516-231-8400
Avantek Inc Santa Clara CA.....	408-496-6710
Bird Electronic Corp Cleveland (Solon) OH.....	216-248-1200
Compac Holbrook NY.....	516-585-3400
Delta Microwave Inc Camarillo CA.....	805-987-6892
Diamond Antenna & Microwave Corp	
Winchester MA.....	617-729-5500
Dynatech UZ Inc Venice CA.....	213-392-9821
Eastern Industries Inc Woburn MA.....	617-935-8600
Elcom Systems Inc Boca Raton FL.....	305-994-1774
Ferrite Control Co Div Micon Inc Brick NJ.....	201-458-3333
Hughes Aircraft Co Microelectronic Circuits Div	
Newport Beach CA.....	714-759-2411
KDI Electronics Inc Whippary NJ.....	201-887-8100
Locus Inc State College PA.....	814-466-6275
Logus Mfg Corp Deer Park NY.....	516-242-5970
Lorch Electronics Corp Englewood NJ.....	201-569-8282
M/A-COM Advanced Semiconductor Oper	
Burlington MA.....	617-272-3000
M/A-COM Microwave Circuits Inc	
Burlington MA.....	617-272-3000
M/A-COM Microwave Components Inc	
Burlington MA.....	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA.....	617-272-3000
M/A-COM Omni Spectra Inc Merrimack NH.....	603-424-4111
Maury Microwave Corp Cucamonga CA.....	714-987-4715
Meca Electronics Inc Denville NJ.....	201-625-0661
Merrimack Industries Inc West Caldwell NJ.....	201-575-1300
Microwave Applications Group	
Santa Maria CA.....	805-928-5711
Microwave Development Labs Inc Natick MA.....	617-655-0060
Microwave Engineering Corp	
North Andover MA.....	617-685-2776
Mini-Circuits Lab Brooklyn NY.....	718-934-4500
Moseley Associates Inc Goleta CA.....	805-968-9621
Mu-Del Electronics Inc Silver Spring MD.....	301-587-6087
The Narda Microwave Corp Hauppauge NY.....	516-231-1700
North Hills Electronics Inc Glen Cove NY.....	516-671-5700
Olektron Corp Webster MA.....	617-943-7440
Omega Laboratories Inc Rowley MA.....	617-948-7757
Reeve Electronics Div Mellisa & Murray	
Chicago IL.....	312-670-0150
RHG Electronics Lab Inc Deer Park NY.....	516-242-1100
RLC Electronics Inc Mt Kisco NY.....	914-241-1334
Sage Laboratories Inc Natick MA.....	617-653-0844
Sanders Associates Inc Nashua NH.....	603-885-4321
Sensor Systems Inc Chatsworth CA.....	818-341-5366
Struthers Electronics Corp Farmingdale NY.....	516-420-9000
Technical Research & Mfg Inc	
Manchester NH.....	603-668-0210
Technicraft Div Tech Systems Corp	
Thomaston CT.....	203-283-5801
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Transco Products Inc Camarillo CA.....	805-987-2201
Triangle Microwave Inc East Hanover NJ.....	201-884-1423
Varian Electron Device Group Palo Alto CA.....	415-493-4000
Vari-L Co Inc Denver CO.....	303-371-1560
Vactor Microwave Inc Wakefield MA.....	617-245-4472
Watkins-Johnson Co Palo Alto CA.....	415-493-4141
Waveline Inc West Caldwell NJ.....	201-226-9100
Weinschel Engineering Co Inc	
Gaithersburg MD.....	301-948-3434
Western Microwave Sunnyvale CA.....	408-734-1631
Wincom Corp Woburn MA.....	617-935-6212
Zeta Labs Inc Sub CCT Santa Clara CA.....	408-727-6001

For ADVERTISERS' CATALOGS see Directory of Catalogs (white pages)

MICROWAVE POWER MONITORS

See Monitors—Power

MICROWAVE PROBES

See Probes

MICROWAVE RADAR

See Radar

MICROWAVE RADIOMETERS

See Radiometers

MICROWAVE SLOTTED SECTIONS

Airtron Div Litton Systems Inc	201-539-5500
Morris Plains NJ	617-935-5150
Alpha Industries Inc Woburn MA	201-560-3800
Astrolab Inc Warren NJ	516-957-7200
Cardwell Condenser Corp Lindenhurst NY	617-729-5500
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Hewlett-Packard Palo Alto CA	415-857-8000
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
Maury Microwave Corp Cucamonga CA	714-987-4715
Omega Laboratories Inc Rowley MA	617-948-7757
Premier Microwave Corp Port Chester NY	914-939-8900
Struthers Electronics Corp Farmingdale NY	516-420-9000
Technicraft Div Tech Systems Corp	
Thomaston CT	203-283-5801
Teledyne Microelectronics Los Angeles CA	213-870-9831
Weinschel Engineering Co Inc	
Gaithersburg MD	301-948-3434

MICROWAVE SWITCHES

See Switches—Coaxial; Switches—Waveguide

MICROWAVE SYSTEMS—AEROSPACE

See Communications Systems; Radar

MICROWAVE SYSTEMS,
POINT-TO-COMMUNICATIONS—ANALOG
(INCL. RECEIVERS, RELAY STATIONS
& TRANSMITTERS)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Andrew Corp Orland Park IL	312-349-3300
Anritsu America Inc Oakland NJ	201-337-1111
Atlantic Research Corp Alexandria VA	703-642-4000
Ball Aerospace Systems Div Boulder CO	303-939-4000
Cardion Electronics Communications	
Holtville NY	516-289-6200
Cardion Electronics Div Gen Signal Corp	
Woodbury NY	516-921-7300
Computer Sciences Corp El Segundo CA	213-615-0311
Datum Inc Timing/AACOM Divs Anaheim CA	714-533-6333
Dewey Electronics Corp Oakland NJ	201-337-4700
Harris Corp Farinon Div San Carlos CA	415-594-3000
International Microwave Corp Stamford CT	203-323-5599
ITT Defense Communications Div Nutley NJ	201-284-0123
Lake Systems Corp Newton MA	617-244-6881
LNR Communications Inc Hauppauge NY	516-273-7111
Loral Data Systems/Conic San Diego CA	619-279-0411
Loral TerraCom San Diego CA	619-278-4100
Microflex Co Inc Salem OR	503-363-9267
MITEQ Inc Hauppauge NY	516-543-8873
Moseley Associates Inc Goleta CA	805-968-9621
NEC America Inc Melville NY	516-753-7000
Ortel Corp Alhambra CA	818-281-3636
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
TRW Microwave Sunnyvale CA	408-732-0880
Watkins-Johnson Co Palo Alto CA	415-493-4141
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

MICROWAVE SYSTEMS, POINT-TO-
COMMUNICATIONS—DIGITAL &
CODE (INCL. RECEIVERS, RELAY
STATIONS & TRANSMITTERS)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Andrew Corp Orland Park IL	312-349-3300
Avantek Inc Santa Clara CA	408-496-6710
Ball Aerospace Systems Div Boulder CO	303-939-4000
Cardion Electronics Communications	
Holtville NY	516-289-6200
Computer Sciences Corp El Segundo CA	213-615-0311
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798

Datum Inc Timing/AACOM Divs Anaheim CA	714-533-6333
Designed Enclosures Inc dba DEI Teleproducts	
Escondido CA	619-743-8344
Eaton Corp AIL Div Deer Park NY	516-595-5000
Electrac Inc Anaheim CA	714-879-6021
Harris Corp Farinon Div San Carlos CA	415-594-3000
International Microwave Corp Stamford CT	203-323-5599
ITT Defense Communications Div Nutley NJ	201-284-0123
Lake Systems Corp Newton MA	617-244-6881
LNR Communications Inc Hauppauge NY	516-273-7111
Loral Data Systems/Conic San Diego CA	619-279-0411
Loral TerraCom San Diego CA	619-278-4100
Marti Electronics Inc Cleburne TX	817-645-9163
Microflex Co Inc Salem OR	503-363-9267
MITEQ Inc Hauppauge NY	516-543-8873
Moseley Associates Inc Goleta CA	805-968-9621
NEC America Inc Melville NY	516-753-7000
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
TRW Microwave Sunnyvale CA	408-732-0880
Watkins-Johnson Co Palo Alto CA	415-493-4141

MICROWAVE SYSTEMS, POINT-TO-
COMMUNICATIONS—MILLIMETER
WAVE

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Alpha Industries Inc Woburn MA	617-935-5150
Eaton Corp AIL Div Deer Park NY	516-595-5000
Electrac Inc Anaheim CA	714-879-6021
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
ITT Defense Communications Div Nutley NJ	201-284-0123
Lake Systems Corp Newton MA	617-244-6881
LNR Communications Inc Hauppauge NY	516-273-7111
Loral TerraCom San Diego CA	619-278-4100
NEC America Inc Melville NY	516-753-7000
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Teledyne Microelectronics San Diego CA	619-583-3525
Watkins-Johnson Co Palo Alto CA	415-493-4141
Waveline Inc West Caldwell NJ	201-226-9100

MICROWAVE SYSTEMS, POINT-TO-
COMMUNICATIONS—PORTABLE
TRANSCIVERS

AEG CORPORATION SOMERVILLE NJ	201-722-9800
RADIO-RESEARCH INSTRUMENT CO INC	
DANBURY CT	203-792-6666
AEG Corporation Somerville NJ	201-722-9800
Avantek Inc Santa Clara CA	408-496-6710
Cardion Electronics Communications	
Holtville NY	516-289-6200
Dewey Electronics Corp Oakland NJ	201-337-4700
Electrac Inc Anaheim CA	714-879-6021
Harris Corp Farinon Div San Carlos CA	415-594-3000
ITT Defense Communications Div Nutley NJ	201-284-0123
Lake Systems Corp Newton MA	617-244-6881
Loral TerraCom San Diego CA	619-278-4100
Marti Electronics Inc Cleburne TX	817-645-9163
MITEQ Inc Hauppauge NY	516-543-8873
NEC America Inc Melville NY	516-753-7000
Radio-Research Instrument Co Inc	
Danbury CT	203-792-6666
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Scientific-Atlanta Inc Atlanta GA	404-441-4000

MICROWAVE SYSTEMS, POINT-TO-
COMMUNICATIONS—TROPOSCATTER

AEG CORPORATION SOMERVILLE NJ	201-722-9800
RADIO-RESEARCH INSTRUMENT CO INC	
DANBURY CT	203-792-6666
AEG Corporation Somerville NJ	201-722-9800
Andrew Corp Orland Park IL	312-349-3300
Harris Corp Farinon Div San Carlos CA	415-594-3000
Harris Corp RF Commun Grp Rochester NY	716-244-5830
ITT Defense Communications Div Nutley NJ	201-284-0123
NEC America Inc Melville NY	516-753-7000
Radio-Research Instrument Co Inc	
Danbury CT	203-792-6666
RCA Government Systems Div Cherry Hill NJ	609-338-3000
Varian Electron Device Group Palo Alto CA	415-493-4000

MICROWAVE SYSTEMS—RADAR

See Radar

MICROWAVE SYSTEMS—SCIENTIFIC &
SPECIAL SYSTEMS (INCL.
INTERFEROMETERS & LONG-RANGE
PROBES)

MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
RADIO-RESEARCH INSTRUMENT CO INC	
DANBURY CT	203-792-6666

Aerojet Electro Systems Co Azusa CA	818-334-6211
Anaren Microwave Inc E Syracuse NY	315-432-8991
Ball Aerospace Systems Div Boulder CO	303-939-4000
Computer Sciences Corp El Segundo CA	213-615-0311
Davco Mfg Co Morristown NJ	201-267-4981
Emerson & Cuming Canton MA	617-828-3331
Erbtech Engineering Inc Boulder CO	303-447-8711
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
Lake Systems Corp Newton MA	617-244-6881
LNR Communications Inc Hauppauge NY	516-273-7111
Loral TerraCom San Diego CA	619-278-4100
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
Micro-Now Instrument Co Inc Skokie IL	312-677-4711
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Radio-Research Instrument Co Inc	
Danbury CT	203-792-6666
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Teledyne Microelectronics San Diego CA	619-583-3525
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

MICROWAVE TERMINATIONS

See Terminations

MICROWAVE TEST CHAMBERS

See Chambers—Microwave

MICROWAVE TEST SETS

See Test Sets; Test Systems

MICROWAVE TRANSFORMING
SECTIONS

Arra Inc Bay Shore NY	516-231-84
Cardwell Condenser Corp Lindenhurst NY	516-957-72
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-55
Eastern Microwave Corp Woburn MA	617-935-86
Gamma-F Corp Torrance CA	213-539-67
M/A-COM Microwave Components Inc	
Burlington MA	617-272-30
Maury Microwave Corp Cucamonga CA	714-987-47
Microwave Development Labs Inc Natick MA	617-655-00
Microwave Engineering Corp	
North Andover MA	617-685-27
Olektron Corp Webster MA	617-943-74
Premier Microwave Corp Port Chester NY	914-939-89
Star Microwave Campbell CA	408-370-61
Struthers Electronics Corp Farmingdale NY	516-420-90
Teledyne Microelectronics Los Angeles CA	213-870-98
Triangle Microwave Inc East Hanover NJ	201-884-14

MICROWAVE TUBES (INCL. TR TUBES)

See Tubes

MICROWAVE TUNERS (INCL. SLIDING
SHORTS)

JOHANSON MFG CORP BOONTON NJ	201-334-26
MALLORY COMPONENTS DIV EMHART	
INDIANAPOLIS IN	317-261-11
Alpha Industries Inc Woburn MA	617-935-51
Astrolab Inc Warren NJ	201-560-38
Cardwell Condenser Corp Lindenhurst NY	516-957-72
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-55
Eastern Microwave Corp Woburn MA	617-935-86
Syosset NY	516-364-04
Hewlett-Packard Palo Alto CA	415-857-80
Hughes Aircraft Co Microwave Prods Div	
Torrance CA	213-517-61
Johanson Mfg Corp Boonton NJ	201-334-26
M/A-COM Omni Spectra Inc Merrimack NH	603-424-4
Mallory Components Div Emhart	
Indianapolis IN	317-261-11
Maury Microwave Corp Cucamonga CA	714-987-47
Meca Electronics Inc Denville NJ	201-625-01
Microwave Engineering Corp	
North Andover MA	617-685-27
The Narda Microwave Corp Hauppauge NY	516-231-1
Omega Laboratories Inc Rowley MA	617-948-7
Premier Microwave Corp Port Chester NY	914-939-8
Struthers Electronics Corp Farmingdale NY	516-420-9
Technicraft Div Tech Systems Corp	
Thomaston CT	203-283-5
Teledyne Microelectronics Los Angeles CA	213-870-9
Victor Microwave Inc Wakefield MA	617-245-4
Watkins-Johnson Co Palo Alto CA	415-493-4
Waveline Inc West Caldwell NJ	201-226-9

MICROWAVE WINDOWS

CERAMASEAL DIV CLEVEPAK CORP	
NEW LEBANON CENTER NY	518-794-71
Alpha Industries Inc Woburn MA	617-935-51
Arra Inc Bay Shore NY	516-231-84
Cardwell Condenser Corp Lindenhurst NY	516-957-72
Ceramaseal Div Clevepak Corp	
New Lebanon Center NY	518-794-71
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-55
Dynasil Corp of America Berlin NJ	609-767-41

erson & Cuming Canton MA	617-828-3300
lowwave Development Labs Inc Natick MA	617-655-0060
lowwave Engineering Corp	
North Andover MA	617-685-2776
illflect Inc Newark CA	415-791-5188
ational Beryllia Div/General Ceramics Inc	
Haskell NJ	201-839-1600
remier Microwave Corp Port Chester NY	914-938-8900
alley Design Corp Rogers CT	203-774-9605
ews Jewel Co Philadelphia PA	215-925-2867
chnicraft Div Tech Systems Corp	
Thomaston CT	203-283-5801
omson-CSF Electron Tube Div	
Rutherford NJ	201-438-2300
alley Design Corp Littleton MA	617-486-8933
arian Electron Device Group Palo Alto CA	415-493-4000
avefine Inc West Caldwell NJ	201-226-9100

MILLIAMMETERS

See Ammeters; Volt-Ohm-Milliammeters

MILLIVOLTMETERS

See Voltmeters

MIXERS—MICROWAVE

See Diodes; Microwave Mixers

MIXERS RF (EXCEPT MICROWAVE)

dams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
lpha Industries Inc Woburn MA	617-935-5150
naren Microwave Inc E Syracuse NY	315-432-8909
vantek Inc Santa Clara CA	408-496-6710
F Electronics Solana Beach CA	619-755-1881
omdel Inc Beverly MA	617-927-3144
aton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
com Systems Inc Boca Raton FL	305-994-1774
arris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
DI Electronics Inc Whippany NJ	201-887-8100
rch Electronics Corp Englewood NJ	201-569-8282
/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
/A-COM Millimeter Products Inc	
Burlington MA	617-272-3000
/A-COM Solid State Circuits Hudson NH	603-880-1911
eramic Industries Inc West Caldwell NJ	201-575-1300
ni-Circuits Lab Brooklyn NY	718-934-4500
ITEC Inc Hauppauge NY	516-543-8873
ultiplex Technology Inc Fullerton CA	714-680-5848
hills Electronics Inc Glen Cove NY	516-671-5700
lektron Corp Webster MA	617-943-7440
essey Semiconductors Irvine CA	714-951-5212
HG Electronics Lab Inc Deer Park NY	516-242-1100
iconic Inc Santa Clara CA	408-988-8000
ledyne Microelectronics Los Angeles CA	213-870-9831
anguard Electronics Gardena CA	213-323-4100
arl-L Co Inc Denver CO	303-371-1560
rkins-Johnson Co Palo Alto CA	415-493-4141
estern Microwave Sunnyvale CA	408-734-1631

MOBILE RADIOS

See Communications Systems; Receivers—Radio

Communications

MODEMS (EXCEPT FSK)

EG CORPORATION SOMERVILLE NJ	201-722-9800
OPTICAL DATA SYSTEMS INC	
RICHARDSON TX	214-234-6400
TIME ZERO CORP CLIFTON NJ	201-340-0400
EG Corporation Somerville NJ	201-722-9800
mdahl Communications Systems Div	
Richardson TX	214-699-9500
merican Computer Group Inc Boston MA	617-437-1100
vantl Communications Corp Newport RI	401-849-4660
ydin Monitor Systems Ft Washington PA	215-646-8100
to 3 Computer Corp Minneapolis MN	612-881-6955
o-Sherrill Co Inc Fremont CA	415-792-0354
anoga Data Systems Canoga Park CA	213-888-2003
anstar Communications Scarborough ON	416-293-9722
ermetek Microelectronics Inc Sunnyvale CA	408-752-5000
omData Corp Morton Grove IL	312-470-9600
omDesign Inc Goleta CA	805-964-9852
oncord Data Systems Inc Waltham MA	617-890-1393
TS Fabri-Tek Inc Eden Prairie MN	612-941-9100
ata Comm for Business Inc Champaign IL	217-352-3207
ata-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
ecaTek Inc Tucker GA	404-493-7273
ecom Systems Inc San Marcos CA	619-744-1002
esigned Enclosures Inc dba DEI Teleproducts	
Escondido CA	619-743-8344
levelcon Electronics Inc Warminster PA	215-443-5450
velcon Mfg Corp Phoenix AZ	602-258-8244
igital Communication Assoc Alpharetta GA	404-442-4000
igital Equipment Corp Maynard MA	617-897-5111
ynatech Data Systems Springfield VA	703-569-9000
F Data Corp Temp Az	602-968-0447
lectronics Warehouse Inc Old Lyme CT	203-434-9838
rect Standards Lab Inc Providence RI	401-943-1164
verett/Charles Marketing Services Inc	
Fontana CA	714-899-2521
undation Instruments Inc Nepean ON	613-226-4000
andall Data Inc Wheeling IL	312-541-6060

or addresses, phones & sales offices, see green pages

General DataComm Systems Inc	
Melbourne FL	305-676-3500
Halcyon Communications Inc San Jose CA	408-293-9970
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Hayes Microcomputer Products Inc	
Atlanta GA	404-449-8791
Hazeltine Corp Commack NY	516-462-5100
Infinet Inc North Andover MA	617-681-0600
Infotron Systems Corp Cherry Hill NJ	609-424-9400
Integrated Photomatrix Inc Mountainside NJ	201-233-6010
Interface Technology St Louis MO	314-426-6880
International Data Sciences Inc Lincoln RI	401-333-6200
LNR Communications Inc Hauppauge NY	516-273-7111
Micom Systems Inc Simi Valley CA	805-583-8600
Microcom Inc Norwood MA	617-762-9310
Mitel Corp Semiconductor Div Kanata ON	613-592-5630
Muirhead Inc Mountainside NJ	201-233-6010
Multi-Tech Systems Inc New Brighton MN	612-631-3550
Nokia-Kinex Largo FL	813-541-6404
Okidata Mount Laurel NJ	609-235-2600
Optical Data Systems Inc Richardson TX	214-234-6400
Paradyne Corp Largo FL	813-530-2000
Phalo Corp Optical Systems Div	
Simi Valley CA	805-522-3333
Racal-Milgo Inc Sunrise	305-475-1601
Racal-Vadic Inc Milpitas CA	408-946-2227
Scitex Corp Newport RI	401-849-4353
Small Business Computers of New England	
Amherst NH	603-673-0228
Spartan Technology Inc Rio Rancho NM	505-892-5300
Tek-Com Corp San Jose CA	408-435-9515
Telebyte Technology Inc Greenlawn NY	516-423-3232
Timeplex Inc Woodcliff Lake NJ	201-391-1111
Time Zero Corp Clifton NJ	201-340-0400
T M Systems Inc Bridgeport CT	203-366-4571
U S Robotics Inc Skokie IL	312-982-5010
Universal Data Systems Huntsville AL	205-837-8100
USRobotics Inc Skokie IL	312-982-5001
Versitron Div Keene Corp Washington DC	202-722-8600
Vicon Industries Inc Melville NY	516-293-2200
Zoom Telephonics Boston MA	617-423-1072

MODEMS—FSK (FREQUENCY SHIFT KEYED)

TIME ZERO CORP CLIFTON NJ	201-340-0400
A C D Corp Dayton OH	513-222-2600
Advanced Micro Devices Inc Sunnyvale CA	408-732-2400
Anderson Jacobson Inc San Jose CA	408-263-8520
Astrocom Corp St Paul MN	612-227-8651
Avanti Communications Corp Newport RI	401-849-4660
Betratronics Inc Lincolnwood IL	312-676-1747
Bo-Sherrill Co Inc Fremont CA	415-792-0354
BR Communications Sunnyvale CA	408-734-1600
C-COR Electronics Inc State College PA	814-238-2461
Cermetek Microelectronics Inc Sunnyvale CA	408-752-5000
ComData Corp Morton Grove IL	312-470-9600
Communilinks Ltd Bohemia NY	516-567-8320
Compu-Mech Inc Toledo OH	419-535-6702
Computer Cable & Products Inc	
Farmingdale NY	516-293-1610
Computrol Div Kidde Automated Sys Inc	
Ridgefield CT	203-544-9371
CTS Fabri-Tek Inc Eden Prairie MN	612-941-9100
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Dataprobe Inc Palisades Park NJ	201-947-9500
Datex Inc Research Triangle Pk NC	919-544-6433
Da-Tel Research Co Inc Montrose CO	303-249-6129
Develcon Electronics Inc Warminster PA	215-443-5450
Develcon Mfg Corp Phoenix AZ	602-258-8244
Dowty RFL Industries Inc Commun	
Boonton NJ	201-334-3100
Gandalf Data Inc Wheeling IL	312-541-6060
General DataComm Systems Inc	
Melbourne FL	305-676-3500
HAL Communications Corp Urbana IL	217-367-7373
Halcyon Communications Inc San Jose CA	408-293-9970
Harbor Electronics Inc Ridgefield CT	203-438-9625
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Highland Technology Inc San Francisco CA	415-753-5814
Infinet Inc North Andover MA	617-681-0600
Infotron Systems Corp Cherry Hill NJ	609-424-9400
Microperipheral Corp Redmond WA	206-881-7544
Mitel Corp Semiconductor Div Kanata ON	613-592-5630
Multi-Tech Systems Inc New Brighton MN	612-631-3550
Nokia-Kinex Largo FL	813-541-6404
Nu Data Corp Little Silver NJ	201-842-5757
Okidata Mount Laurel NJ	609-235-2600
Paradyne Corp Largo FL	813-530-2000
Prometheus Products Inc Fremont CA	415-490-2370
Racal-Milgo Inc Sunrise	305-475-1601
Racal-Vadic Inc Milpitas CA	408-946-2227
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Scientific Radio Systems Inc Rochester NY	716-458-3733
Sonex Corp Philadelphia PA	215-533-4900
Tek-Com Corp San Jose CA	408-435-9515
Telebyte Technology Inc Greenlawn NY	516-423-3232
Texas Instruments Optoelectronics Dallas TX	214-995-6611
Timeplex Inc Woodcliff Lake NJ	201-391-1111
Time Zero Corp Clifton NJ	201-340-0400
T M Systems Inc Bridgeport CT	203-366-4571
TTS (Telecom Terminal Sys) Ingewood CA	213-641-8111
U S Robotics Inc Skokie IL	312-982-5010
Universal Data Systems Huntsville AL	205-837-8100
Vertex Electronics Inc Farmingdale NY	516-293-9880
Vicon Industries Inc Melville NY	516-293-2200

MODEMS—INTEGRATED CIRCUITS

See ICs—Modem

MODEMS—SYNCHRONOUS

OPTICAL DATA SYSTEMS INC	
RICHARDSON TX	214-234-6400
TIME ZERO CORP CLIFTON NJ	201-340-0400
Amdahl Communications Systems Div	
Richardson TX	214-699-9500
American Computer Group Inc Boston MA	617-437-1100
Avanti Communications Corp Newport RI	401-849-4660
Bo-Sherrill Co Inc Fremont CA	415-792-0354
Canoga Data Systems Canoga Park CA	213-888-2003
Canstar Communications Scarborough ON	416-293-9722
C-COR Electronics Inc State College PA	814-238-2461
Cermetek Microelectronics Inc Sunnyvale CA	408-752-5000
ComData Corp Morton Grove IL	312-470-9600
Complex Systems Inc Huntsville AL	205-830-4310
Computer Cable & Products Inc	
Farmingdale NY	516-293-1610
Computrol Div Kidde Automated Sys Inc	
Ridgefield CT	203-544-9371
Com/Tech Systems Inc New York NY	212-594-5377
Concord Data Systems Inc Waltham MA	617-890-1394
CTS Fabri-Tek Inc Eden Prairie MN	612-941-9100
Data Comm for Business Inc Champaign IL	217-352-3207
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Dataproducs Corp Woodland Hills CA	818-887-8000
Datex Inc Research Triangle Pk NC	919-544-6433
Designed Enclosures Inc dba DEI Teleproducts	
Escondido CA	619-743-8344
Develcon Electronics Inc Warminster PA	215-443-5450
Digital Communication Assoc Alpharetta GA	404-442-4000
Dynatech Data Systems Springfield VA	703-569-9000
Fibronics International Hyannis MA	617-778-0700
Gandalf Data Inc Wheeling IL	312-541-6060
General DataComm Systems Inc	
Melbourne FL	305-676-3500
Halcyon Communications Inc San Jose CA	408-293-9970
Harbor Electronics Inc Ridgefield CT	203-438-9625
Infinet Inc North Andover MA	617-681-0600
Infotron Systems Corp Cherry Hill NJ	609-424-9400
Integrated Photomatrix Inc Mountainside NJ	201-233-6010
International Data Sciences Inc Lincoln RI	401-333-6200
Micom Systems Inc Simi Valley CA	805-583-8600
Multi-Tech Systems Inc New Brighton MN	612-631-3550
NCR Comten Inc St Paul MN	612-638-7777
NEC America Inc Melville NY	516-753-7000
Nokia-Kinex Largo FL	813-541-6404
Okidata Mount Laurel NJ	609-235-2600
Optical Data Systems Inc Richardson TX	214-234-6400
Paradyne Corp Largo FL	813-530-2000
Phalo Corp Optical Systems Div	
Simi Valley CA	805-522-3333
Prometheus Products Inc Fremont CA	415-490-2370
Quadram Corp Norcross GA	404-923-6666
Racal-Milgo Inc Sunrise	305-475-1601
Racal-Vadic Inc Milpitas CA	408-946-2227
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Scitex Corp Newport RI	401-849-4353
Telebyte Technology Inc Greenlawn NY	516-423-3232
Timeplex Inc Woodcliff Lake NJ	201-391-1111
Time Zero Corp Clifton NJ	201-340-0400
T M Systems Inc Bridgeport CT	203-366-4571
U S Robotics Inc Skokie IL	312-982-5010
Universal Data Systems Huntsville AL	205-837-8100
Vertex Electronics Inc Farmingdale NY	516-293-9880
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

MODULATION METERS

See Meters

MODULATORS—FERRITE

M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
Microwave Applications Group	
Santa Maria CA	805-928-5711
National Moldite Co Newark NJ	201-589-6860
Premier Microwave Corp Port Chester NY	914-939-8900

MODULATORS—FM

COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
Anaren Microwave Inc E Syracuse NY	315-432-8909
Astec (USA) Inc Santa Clara CA	408-748-1200
Aydin Vector Div Newtown PA	212-968-4271
ComData Corp Morton Grove IL	312-470-9600
Computer Conversions Corp	
East Northport NY	516-261-3300
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Electrac Inc Anaheim CA	714-879-6021
FiberCom Inc Roanoke VA	703-342-6700
LNR Communications Inc Hauppauge NY	516-273-7111
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
Multiplex Technology Inc Fullerton CA	714-680-5848
Novadyne Inc Fountain Valley CA	714-988-5370
Plessey Semiconductors Irvine CA	714-951-5212
Scientific-Atlanta Inc Atlanta GA	404-441-4000
Solid State Electronics Corp Northridge CA	818-993-8257
Sonex Corp Philadelphia PA	215-533-4900
TTC/Television Technology Corp	
Broomfield CO	303-465-4141

MODULATORS—KEYERS

See Keyers

MODULATORS—MAGNETIC

COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
American Aerospace Controls Inc	
Farmingdale NY	516-694-5100
Aydin Radar & EW Div San Jose CA	408-629-1100
Computer Conversions Corp	
East Northport NY	516-261-3300
Control Technology Co Inc	
Long Island City NY	718-361-2133
General Magnetics Inc Bloomfield NJ	201-743-2700
Maxwell Labs Inc San Diego CA	619-279-5100
Rantec Div Emerson Electric Co	
Chatsworth CA	818-885-8223
Transmagnetics Inc Farmingdale NY	516-293-3100
Whittaker Corp Tasker Sys Div	
Simi Valley CA	805-584-8200

MODULATORS—MICROWAVE (EXCEPT FERRITE & PULSE)

GENERAL MICROWAVE CORP	
AMITYVILLE NY	516-226-8900
ADV PG 274	
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Alpha Industries Inc Woburn MA	617-935-5150
Anaren Microwave Inc E Syracuse NY	315-432-8909
Arra Inc Bay Shore NY	516-231-8400
Carco Electronics Menlo Park CA	415-321-8174
Cober Electronics Inc Stamford CT	203-327-0003
Eaton Corp AIL Div Deer Park NY	516-595-5000
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
General Microwave Corp Amityville NY	516-226-8900
International Microwave Corp Stamford CT	203-323-5599
KDI Electronics Inc Whippany NJ	201-887-8100
Litton Electron Devices Div San Carlos CA	415-591-8411
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Solid State Circuits Hudson NH	603-880-1911
Maury Microwave Corp Cucamonga CA	714-987-4715
Multiplex Technology Inc Fullerton CA	714-680-5848
The Narda Microwave Corp Hauppauge NY	516-231-1700
Nurad Inc Baltimore MD	301-462-1700
Olektron Corp Webster MA	617-943-7440
Polarad Electronics Inc Lake Success NY	516-328-1100
Premier Microwave Corp Port Chester NY	914-939-8900
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Technicraft Div Tech Systems Corp	
Thomaston CT	203-283-5801
Teledyne Microelectronics Los Angeles CA	213-870-9831
TRW Microwave Sunnyvale CA	408-732-0880
Varian Electron Device Group Palo Alto CA	415-493-4000
Western Microwave Sunnyvale CA	408-734-1631
Whittaker Corp Tasker Sys Div	
Simi Valley CA	805-584-8200

MODULATORS—MODEM

See Modems

MODULATORS—OPTICAL

See Infrared Modulators; Optical Modulators

(except Infrared)

See Also Choppers—Light Beam

MODULATORS—PHASE

COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
GENERAL MICROWAVE CORP	
AMITYVILLE NY	516-226-8900
ADV PG 274	
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Alpha Industries Inc Woburn MA	617-935-5150
Anaren Microwave Inc E Syracuse NY	315-432-8909
Applied Research Inc Plainville NY	516-349-9200
Computer Conversions Corp	
East Northport NY	516-261-3300
Control Technology Co Inc	
Long Island City NY	718-361-2133
EF Data Corp Tempe AZ	602-968-0447
Electrac Inc Anaheim CA	714-879-6021
General Microwave Corp Amityville NY	516-226-8900
Hewlett-Packard Palo Alto CA	415-857-8000
Kalglo Electronics Co Inc Bethlehem PA	215-837-0700
Merrimac Industries Inc West Caldwell NJ	201-575-1300
Microwave Applications Group	
Santa Maria CA	805-928-5711
Mini-Circuits Lab Brooklyn NY	718-934-4500
National Semiconductor Corp Santa Clara CA	408-721-5000
Olektron Corp Webster MA	617-943-7440
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Teledyne Microelectronics Los Angeles CA	213-870-9831
Triangle Microwave Inc East Hanover NJ	201-884-1423
TRW Microwave Sunnyvale CA	408-732-0880
Varian Electron Device Group Palo Alto CA	415-493-4000

MODULATORS—PULSE

DEL ELECTRONICS CORP	
MT VERNON NY	914-699-2000
GENERAL MICROWAVE CORP	
AMITYVILLE NY	516-226-8900
ADV PG 274	
INSTRUMENTS FOR INDUSTRY INC	
FARMINGDALE NY	516-694-1414
RADIO-RESEARCH INSTRUMENT CO INC	
DANBURY CT	203-792-6666
Alpha Industries Inc Woburn MA	617-935-5150
Anaren Microwave Inc E Syracuse NY	315-432-8909
Axel Electronics Inc Jamaica NY	718-291-3900
Aydin Radar & EW Div San Jose CA	408-629-1100
Cober Electronics Inc Stamford CT	203-327-0003
Comdel Inc Beverly MA	617-927-3144
Del Electronics Corp Mt Vernon NY	914-699-2000
Epsco Inc Westwood MA	617-329-1500
ETM-Electromatic Inc Palo Alto CA	415-494-1505
General Microwave Corp Amityville NY	516-226-8900
Hewlett-Packard Palo Alto CA	415-857-8000
Instrument Research Co Santa Barbara CA	805-962-8336
Instruments for Industry Inc Farmingdale NY	516-694-1414
ITT Electron Technology Div Easton PA	215-252-7331
Matec Instruments Inc Warwick RI	401-739-9030
Maxwell Labs Inc San Diego CA	619-279-5100
Mini-Circuits Lab Brooklyn NY	718-934-4500
The Narda Microwave Corp Hauppauge NY	516-231-1700
Radio-Research Instrument Co Inc	
Danbury CT	203-792-6666
Rantec Div Emerson Electric Co	
Chatsworth CA	818-885-8223
Teledyne Microelectronics Los Angeles CA	213-870-9831
Tobe Deutschmann Labs Inc Canton MA	617-828-3366
Universal Voltronics Corp Mount Kisco NY	914-241-1300
Varian Electron Device Group Palo Alto CA	415-493-4000
Velonex Santa Clara CA	408-727-7370
Whittaker Corp Tasker Sys Div	
Simi Valley CA	805-584-8200

MODULATORS—TELEMETRY

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
Anaren Microwave Inc E Syracuse NY	315-432-8909
Aydin Vector Div Newtown PA	215-968-4271
Betatronics Inc Lincolnwood IL	312-676-1747
ComData Corp Morton Grove IL	312-470-9600
Control Technology Co Inc	
Long Island City NY	718-361-2133
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Decom Systems Inc San Marcos CA	619-744-1002
Dowty RFL Industries Inc Commun	
Bonnton NJ	201-334-3100
Eaton Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
Fifth Dimension Inc Trenton NJ	609-393-8350
Solid State Electronics Corp Northridge CA	818-993-8257
Sonex Corp Philadelphia PA	215-533-4900
Teledyne Microelectronics Los Angeles CA	213-870-9831
TRW Microwave Sunnyvale CA	408-732-0880

MODULE ASSEMBLY SERVICE

See Production Services

MODULES—ANALOG

See Type of Circuit Desired (Amplifiers; Converters; ICs; etc.)

MODULES—COOLING

See Cooling Units

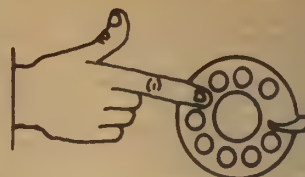
MODULES—INTEGRATED CIRCUIT

See ICs Listings

MODULES, LOGIC—MINIATURE

ENCAPSULATED (EXCEPT IC DEVICES)

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
Artronic Instrument Co Inc Sidney NY	607-563-8444
A-Systems Inc Charlottesville VA	804-295-7200
Autronics Corp Arcadia CA	818-445-5470
Catalyst Research Baltimore MD	301-296-7000
Cermetek Microelectronics Inc Sunnyvale CA	408-752-5000
Circuit Technology Inc Farmingdale NY	516-293-8686
Control Technology Co Inc	
Long Island City NY	718-361-2133
Crydom Div Intl Rectifier Corp El Segundo CA	213-322-4987
Dataprobe Inc Palisades Park NJ	201-947-9500
Eidec Corp Lynnwood WA	206-743-1313
Inconix Corp Norwell MA	617-655-1170
Interface Engineering Inc Stoughton MA	617-344-7383
National Semiconductor Corp Santa Clara CA	408-721-5000
Parko Electronics Co Inc Irvine CA	714-660-8014
PCI Inc Santa Clara CA	408-980-0591
Penn Airborne Products Co Southampton PA	215-355-3400
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Rodale Electronics Corp Garden City NY	516-222-0050
Skan-A-Matic Corp Elbridge NY	315-689-3961



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eddyne Microelectronics Los Angeles CA 213-870-9831
 transistor Specialties Inc Danvers MA 617-774-8722

MODULES, LOGIC—PRINTED CIRCUIT CARD

AD INDUSTRIES INC WILLOUGHBY OH 216-946-3200
 INTERNATIONAL INSTRUMENTATION INC
 WESTLAKE VILLAGE CA 818-991-9614
 ME ZERO CORP CLIFTON NJ 201-340-0400
 le Computer Costa Mesa CA 714-979-7030
 tech Inc Honolulu HI 808-941-0708
 analogic Corp Peabody MA 617-532-5660
 Systems Inc Charlottesville VA 804-295-7200
 tronics Corp Arcadia CA 818-445-5470
 Industries Inc Willoughby OH 216-946-3200
 mark Corp Medfield MA 617-359-8161
 model Inc Beverly MA 617-927-3144
 eative Micro Systems Los Alamitos CA 213-493-2484
 ydom Div Intl Rectifier Corp El Segundo CA 213-322-4987
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 ytronic Corp Miamisburg OH 513-866-3300
 -Tec-Tronic Corp Elgin IL 312-695-9150
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 'E Precision Materials Danvers MA 617-777-1900
 de Park Electronics Inc Dayton OH 513-435-2121
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 ernational Instrumentation Inc
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 sor/Cadillac Cadillac MI 616-775-4681
 ar Siegler Inc Instrument Div
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 gical Design Group Inc Raleigh NC 919-834-8827
 JB Systems Inc Orange CA 714-998-6900
 cro/sys Inc Glendale CA 818-244-4600
 tional Semiconductor Corp Santa Clara CA 408-721-5000
 nabyte Corp West Chicago IL 312-231-6880
 il Inc Santa Clara CA 408-980-0591
 scicontact Inc Langhorne PA 215-757-1202
 -Log Corp Monterey CA 408-372-4593
 ven Industries Inc Sioux Falls SD 605-336-2750
 -Electronics Inc Warrington PA 215-343-5075
 bitech Inc Wilmington MA 617-657-6143
 nsor Corp Scottsdale PA 412-887-4080
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 uare D Co Palatine IL 312-397-2600
 anford Applied Engineering Santa Clara CA 408-988-0700
 uthers-Dunn Inc Pitman NJ 609-589-7500
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 nor Co Inc New Berlin WI 414-782-3800
 ne Zero Corp Clifton NJ 201-340-0400
 ctor Electronic Co Inc Sylmar CA 818-365-9661
 yafraframe Controls Div Ebbert Eng Co
 Troy MI 313-649-9314
 com Inc Saline MI 313-429-4971

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ME ZERO CORP CLIFTON NJ 201-340-0400
 tronics Corp Arcadia CA 818-445-5470
 quit Assembly Corp Irvine CA 714-855-7887
 tatan Labs Inc Sussex NJ 914-856-4313
 -Tec-Tronic Corp Elgin IL 312-695-9150
 jac Corp Lynnwood WA 206-743-1313
 -tromatic Controls Corp
 Hoffman Estates IL 312-882-5757
 rds Corp Bloomfield NJ 201-743-6800
 'E Precision Materials Danvers MA 617-777-1900
 onix Terminal Blocks Inc Harrisburg PA 717-944-1300
 ven Industries Inc Sioux Falls SD 605-336-2750
 bitech Inc Wilmington MA 617-657-6143
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 ltron Devices Inc Semiconductor Group
 Riviera Beach FL 305-848-4311
 uare D Co Palatine IL 312-397-2600
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 uthers-Dunn Inc Pitman NJ 609-589-7500
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 ne Zero Corp Clifton NJ 201-340-0400
 co Electrical Connectors Inc Mooers NY 518-298-4810
 com Inc Saline MI 313-429-4971

MODULES—PACKAGES

See Packages; Packaging Systems

MODULES—PASSIVE

See Type of Circuit Desired (Filters; Networks;
 Etc.)

MOISTURE METERS

See Meters

MOISTURE REPELLANTS

See Coating Compounds

See Also Chemicals—Desiccant; Dehumidifiers

MOLDED PARTS

See Material Desired (Glass; Metal

Parts—Castings; Plastic Parts; Optical Lenses;
 Etc.)

MOLDING COMPOUNDS

See Plastics; Potting Compounds; Silicone Rubber

MOLDS—HAND ENCAPSULATION

Estes Engineering Co Port Angeles WA 206-457-0904
 Hull Corp Hatboro PA 215-672-7800
 Kras Corp Fairless Hills PA 215-736-0981
 MTI Corp Ivyland PA 215-355-3110
 Ny-Glass Plastics Paramount CA 213-636-1035
 Ross Co Milton Southampton PA 215-355-0200
 Tra-Con Inc Medford MA 617-391-5550

MOLDS—MACHINE ENCAPSULATION

Alden Products Co Brockton MA 617-583-0160
 Assemblyonics Inc Brentwood NY 516-231-4440
 Gluco Inc Pittsburgh PA 412-327-7575
 Hull Corp Fairless Hills PA 215-736-0981
 Kras Corp Fairless Hills PA 215-355-3110
 MTI Corp Ivyland PA 213-636-1035
 Ny-Glass Plastics Paramount CA 215-355-0200
 Ross Co Milton Southampton PA 215-355-0200

MOLYBDENUM

See Metals; Wire—Bare

MONEL

See Metals; Wire—Bare

MONITORS—CURRENT

PEARSON ELECTRONICS INC
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 ADV PG 283
 Acromag Inc Wixom MI 313-624-1541
 Advanced Peripherals Inc Cleveland OH 216-721-6665
 Analogic Corp Peabody MA 617-532-5660
 Azonix Corp Burlington MA 617-273-5550
 Delta Electronics Inc Alexandria VA 703-354-3350
 Digitronics Inc Yorkville NY 315-736-0158
 Diversified Electronics Inc Evansville IN 800-874-0619
 Dowty RFL Indus Instr Div Boonton NJ 201-334-3100
 Dranetz Technologies Inc Edison NJ 201-287-3680
 Extex Instruments & Cont Div Waltham MA 617-890-7440
 Logitek Inc Ronkonkoma NY 516-467-4200
 NES Inc Carpentersville IL 312-426-5900
 North American Soar Corp Cherry Hill NJ 609-488-1060
 Pearson Electronics Inc Palo Alto CA 415-494-6444
 Power Science Inc San Diego CA 619-292-4322
 Skyway Magnetics Warner Springs CA 619-782-3342
 Time Mark Corp Tulsa OK 918-438-1220

MONITORS—FREQUENCY (SIGNAL)

SOLID STATE ELECTRONICS CORP
 NORTHRIDGE CA 818-993-8257
 Acromag Inc Wixom MI 313-624-1541
 Advanced Peripherals Inc Cleveland OH 216-721-6665
 Airpax Corp Ft Lauderdale Div
 Ft Lauderdale FL 305-587-1100
 Analogic Corp Peabody MA 617-532-5660
 Atlantic Research Corp Alexandria VA 703-642-4000
 Auston Inc Austin TX 512-251-2313
 Automatic Switch Co Florham Park NJ 201-966-2000
 Autronics Corp Arcadia CA 818-445-5470
 Azonix Corp Burlington MA 617-273-5550
 Bindicator Port Huron MI 313-987-2700
 Consultronics Ltd Concord ON 416-738-3741
 Cushman Electronics Inc San Jose CA 408-263-8100
 Diversified Electronics Inc Evansville IN 800-874-0619
 Dranetz Technologies Inc Edison NJ 201-287-3680
 Dynamic Controls Corp South Windsor CT 203-528-9971
 Electronic Counters & Controls Inc
 Mundelein IL 312-362-8910
 Extex Instruments & Cont Div Waltham MA 617-890-7440
 FCP Inc/Frequency Cont Prods Woodside NY 718-458-5811
 Hewlett-Packard Palo Alto CA 415-857-8000
 Kinetic Systems Corp Lockport IL 815-838-0005
 LogiMetrics Inc Plainview NY 516-349-1700
 Logitek Inc Ronkonkoma NY 516-467-4200
 Lorch Electronics Corp Englewood NJ 201-569-8282
 Miller Communications Systems Ltd
 Kanata ON 613-592-3020
 NES Inc Carpentersville IL 312-426-5900
 Non-Linear Systems Div Kaypro Corp
 Solana Beach CA 619-481-3953
 Panalarm Div Ametek Inc Skokie IL 312-675-2500
 Protech Audio Corp St James NY 516-584-5855
 Solid State Electronics Corp Northridge CA 818-993-8257
 Struthers-Dunn Inc Pitman NJ 609-589-7500
 Tektronix Inc Beaverton OR 800-547-6711
 Tesdata Systems Corp McLean VA 703-827-4000
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Power Science Inc San Diego CA	619-292-4322
Sola Electric A Unit Of Gen Signal Elk Grove Village IL	312-439-2800

MONITORS, POWER—A-F

Applied Electro Technology Int Santa Ana CA	714-556-6570
Automatic Switch Co Florham Park NJ	201-966-2000
Azonix Corp Burlington MA	617-273-5550
Bogen Div Lear Siegler Inc Paramus NJ	201-343-5700
Butler Mfg Co Controls Div Redmond WA	206-823-7100
Dranetz Technologies Inc Edison NJ	201-287-3680
Soundolier Div Amer Trading Prod Corp St Louis MO	314-962-9870
Wandel & Goltermann Inc Research Triangle Pk NC	919-544-8450

MONITORS—POWER LINE

SL WABER WESTVILLE NJ ADV PG 284	609-456-5400
SUPERIOR ELECTRIC CO THE BRISTOL CT ADV PG 284	203-582-9561
Amerace Corp Hackettstown NJ	201-852-1122
Basic Measuring Instruments Foster City CA	415-570-5355
Belatronics Inc Lincolnwood IL	312-676-1747
Dranetz Technologies Inc Edison NJ	201-287-3680
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
Kinemetrics/True Time Santa Rosa CA	707-528-1230
Lakontek Inc South Plainfield NJ	201-755-7680
Oneac Corp Bannockburn IL	312-295-2800
Power Science Inc San Diego CA	619-292-4322
PPM Inc Cleveland OH	216-922-6006
SL Waber Westville NJ	609-456-5400
Superior Electric Co The Bristol CT	203-582-9561
Time Mark Corp Tulsa OK	918-438-1220

MONITORS, POWER—MICROWAVE

GENERAL MICROWAVE CORP AMITYVILLE NY ADV PG 274	516-226-8900
Airtron Div Litton Systems Inc Morris Plains NJ	201-539-5500
Consultronics Ltd Concord ON	416-738-3741
Custom Components Inc Lebanon NJ	201-534-6151
Eaton Corp AIL Div Deer Park NY	516-595-5000

General Microwave Corp Amityville NY	516-226-8900
Harris Corp Govt Support Sys Div Syosset NY	516-364-0200
KDI Electronics Inc Whippany NJ	201-887-8100
Maury Microwave Corp Cucamonga CA	714-987-4700
The Narda Microwave Corp Hauppauge NY	516-231-1700
Premier Microwave Corp Port Chester NY	914-939-8900
Racal-Dana Instruments Inc Irvine CA	714-859-8900
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-412-0000
Wavetek Pacific Measurements Inc Sunnyvale CA	408-734-5700

MONITORS, POWER—POWER SUPPLY (INCL. POWER FAILURE DETECTORS)

ABACUS CONTROLS INC SOMERVILLE NJ	201-526-6000
ALCO ELECTRONIC PRODUCTS INC NORTH ANDOVER MA	617-685-4300
JOHN FRANEK CO INC IRVINE CA	714-261-5300
SUPERIOR ELECTRIC CO THE BRISTOL CT ADV PG 284	203-582-9561
Abacus Controls Inc Somerville NJ	201-526-6000
Alco Electronic Products Inc North Andover MA	617-685-4300
Amerace Corp Hackettstown NJ	201-852-1122
American Aerospace Controls Inc Farmingdale NY	516-694-5100
Applied Controls Co Inc Fairfield NJ	201-227-5400
Applied Electro Technology Int Santa Ana CA	714-556-6570
A-Systems Inc Charlottesville VA	804-295-7200
Automatic Switch Co Florham Park NJ	201-966-2000
Autronics Corp Arcadia CA	818-445-5400
Calex Mfg Co Inc Pleasant Hill CA	415-932-3900
Codar Technology Inc Longmont CO	303-776-0400
Consultronics Ltd Concord ON	416-738-3700
Cuesta Systems Inc San Luis Obispo CA	805-541-4100
Diversified Electronics Inc Evansville IN	800-874-0600
Dranetz Technologies Inc Edison NJ	201-287-3680
Dynamic Controls Corp South Windsor CT	203-528-9500
John Franeck Co Inc Irvine CA	714-261-5300
K C Industries Inc Cambridge NE	308-697-4700
Lark Electronics Inc New York NY	212-569-0400
Liebert Corp Programmed Power Div Sunnyvale CA	408-245-8900
Logitek Inc Ronkonkoma NY	516-467-4200
Magnum Opus Custom Electronic Engrg Iselin NJ	201-283-4500
Micro Instrument Co Escondido CA	619-746-2000
Ohio Samitronics Inc Columbus OH	614-486-9500
Parko Electronics Inc San Diego CA	619-560-8600
Power Science Inc San Diego CA	619-292-4322
Sola Electric A Unit Of Gen Signal Elk Grove Village IL	312-439-2800
Superior Electric Co The Bristol CT	203-582-9561
Vermont Automation Co Inc Essex Junction VT	802-879-7500
Versafame Controls Div Ebbett Eng Co Troy MI	313-649-9300
Voltek Co Inc No Amityville NY	516-842-2700
Wandel & Goltermann Inc Research Triangle Pk NC	919-544-8450
Wilmar Electronics Inc Torrance CA	213-326-6600
Winland Electronics Inc Mankato MN	507-625-7200

MONITORS, POWER—RF

BIRD ELECTRONIC CORP CLEVELAND (SOLO) OH	216-248-1200
GENERAL MICROWAVE CORP AMITYVILLE NY ADV PG 274	516-226-8900
INSTRUMENTS FOR INDUSTRY INC FARMINGDALE NY	516-694-1400
Airtron Div Litton Systems Inc Morris Plains NJ	201-539-5500
B F Electronics Solana Beach CA	619-755-1600
Bird Electronic Corp Cleveland (Solon) OH	216-248-1200
Custom Components Inc Lebanon NJ	201-534-6100
Decibel Products Inc Dallas TX	214-631-0300
Delta Electronics Inc Alexandria VA	703-354-3300
Empulse Lab Inc Red Bank NJ	201-741-0400
General Microwave Corp Amityville NY	516-226-8900
Harris Corp Govt Support Sys Div Syosset NY	516-364-0200
Instruments for Industry Inc Farmingdale NY	516-694-1400
KDI Electronics Inc Whippany NJ	201-887-8100
M/A COM Microwave Circuits Inc Burlington MA	617-272-3000
The Narda Microwave Corp Hauppauge NY	516-231-1700
Nautical Electronic Labs Ltd Hacketts Cove NS	902-823-2200
Racal-Dana Instruments Inc Irvine CA	714-859-8900
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-412-0000
Sinclair Radio Labs Inc Tonawanda NY	716-874-3600
Wavetek Pacific Measurements Inc Sunnyvale CA	408-734-5700
Wide Band Engineering Co Inc Phoenix AZ	602-254-1500

MONITORS—RADIOACTIVITY (EXCEPT DOSIMETERS)

Baird Corp Bedford MA	617-276-6000
Collins & Assoc Don L Glendale CA	213-245-2700
Ludlum Measurements Inc Sweetwater TX	915-235-5400
Nuclear Enterprises Ltd Beemham Reading	0734-7121
Reuter-Stokes Inc Twinsburg OH	216-425-3700
RIL Electronics Inc Warrington PA	215-343-5000
The Nucleus Inc Oak Ridge TN	615-483-0000
Victoreen Inc Cleveland OH	216-795-8200

MONITORS—TEMPERATURE

ML MACARR DIV BROOKLYN NY	718-857-2400
ADV PG 285	
VG FORT LAUDERDALE FL	305-771-3201
ADV PG 148	
EWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
MEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
UPERIOR ELECTRIC CO THE	
BRISTOL CT	203-582-9561
ELEDYNE GEOTECH GARLAND TX	214-271-2561
EMPIR DIV BIG THREE INDUSTRIES INC	
SOUTH PLAINFIELD NJ	201-757-8300
HERMOMETRICS INC EDISON NJ	201-287-2870
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rmtec Industries Inc Manchester NH	603-669-0940
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arnes Engineering Co Stamford CT	203-348-5381
ayley Instrument Co Kenwood CA	707-833-6014
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aspar Integrated Systems Inc	
Fort Bragg CA	707-964-4109
hromalox Instruments & Control	
Laverne TN	615-793-3900
ML Macarr Div Brooklyn NY	718-857-2400
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lta Design Inc San Diego CA	619-292-5000
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-Cer Inc South Holland IL	312-339-8310
rotherm Corp Reston VA	703-471-4870
tech Instruments & Cont Div Waltham MA	617-880-7440
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Watertown MA	617-923-2386
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aris Mfg Co Inc Billerica MA	617-667-5116
eraeus-Volkert Inc Queens Village NY	718-464-8400
oneywell Process Control Div	
Fl Washington PA	215-641-3000
owell Instruments Inc Fort Worth TX	817-336-7411
-Y Cal Engineering El Monte CA	818-444-4000
alee Electronics Corp Valley Stream NY	516-825-8955
dikon Corp Cambridge MA	617-547-3604
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international Instru-ments Div Gen Resistance Inc	
North Branford CT	203-481-3450
ID Mechanalysis Inc Columbus OH	614-885-5376
T Barton Instruments Co	
City of Industry CA	818-961-2547
rssey Technical Electronics Inc Middlesex NJ	201-469-8160
eye Instruments Inc Bedford MA	617-275-0300
ethley Instruments Inc Cleveland OH	216-248-0400
inette Systems Corp Lockport IL	815-838-0005
VG Fort Lauderdale FL	305-771-3201
kgtek Inc South Plainfield NJ	201-755-7680
and Instruments Inc Tullytown PA	215-943-7882
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North Wales PA	215-643-2000
FE Corp Instruments Div Clinton MA	617-835-1000
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lag-Con Inc St Paul MN	612-633-8820
lartindale Electric Co Cleveland OH	216-521-8567
latrix Corp Indianapolis IN	317-248-2036
-IC Products Scottsdale AZ	602-998-9577
latrix Instrument Co Houston TX	713-461-2131
linco Products Inc Minneapolis MN	612-571-3121
loulard Command Systems Inc	
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ES Inc Carpentersville IL	312-426-5900
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mega Engineering Inc Stamford CT	203-359-1660
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arko Electronics Co Inc Irvine CA	714-660-8014
PM Inc Cleveland OH	216-292-6006
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Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Thermometrics Inc Edison NJ	201-287-2870
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Trans-Met Engineering Inc La Habra CA	213-691-2266
Transwave Corp Vanderbilt PA	412-628-6370
United Electric Controls Co Watertown MA	617-926-1000
Vitec Inc Cleveland OH	216-644-4670
Wahl Instruments Inc Culver City CA	213-641-6931
Wattlow Electric Winona MN	507-454-5300
Weed Instrument Co Inc Round Rock TX	512-255-7043
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Williamson Corp Concord MA	617-369-9607
Winland Electronics Inc Mankato MN	507-625-7231
Yellow Springs Instrument Co Inc	
Yellow Springs OH	513-767-7241

MONITORS—TV DISPLAY

See Display Terminals; TV Receivers

MONITORS—VIBRATION

See Vibration Monitors

MONITORS—VIDEO

INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA	818-991-9614
KIN-TRONICS INC YONKERS NY	914-968-7736
ADV PGS See Ads In Green Pages	
TEMTRON ELECTRONICS LTD	
EAST ROCKAWAY NY	516-599-6400
ADV PG 285	

ACI Data Products Inc Huntington Beach CA	714-842-2945
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Arvin/Diamond Lancaster OH	614-756-9222
Astec (USA) Inc Santa Clara CA	408-748-1200
ATV Research Inc Dakota City NE	402-987-3771
Audiotronics Corp North Hollywood CA	818-765-2645
Aydin Controls Ft Washington PA	215-542-7800
Ball Aerospace Systems Div Boulder CO	303-939-4000
Ball Electronic Systems Div Broomfield CO	303-460-5260
Conrac Div Conrac Corp Covina CA	818-966-3511
Digitaltr/Computron Inc Pasadena CA	818-791-5600
Dotronix Inc New Brighton MN	612-633-1742
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International Instrumentation Inc	
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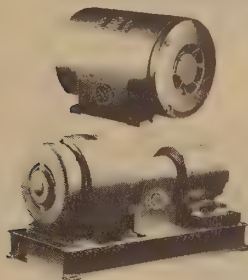
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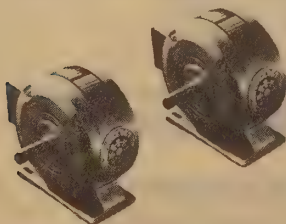
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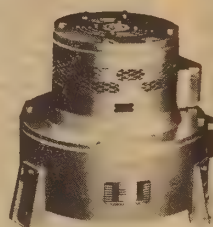
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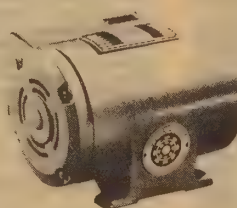
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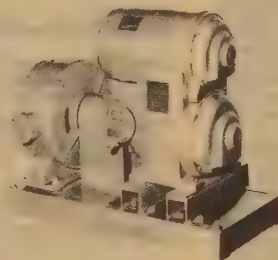
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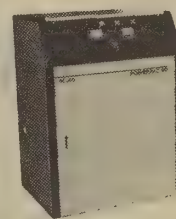
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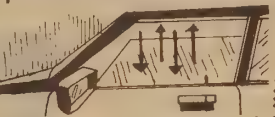
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MC/Hansen Mfg Co Inc Sub Princeton IN.....	812-385-3415
Japanese Products Corp Elmsford NY.....	914-592-8880
McLean Engineering Div Zero Corp	
Princeton Junction NJ.....	609-799-0100
Midland Ross Corp/General Design	
Sun Valley CA.....	213-875-1260
Montevideo Technology Inc Montevideo MN.....	612-269-6562
Motor Products Corp Little Falls NY.....	914-823-4050
MPC Products Corp Skokie IL.....	312-673-8300
IPC-Torin Corp Torrington CT.....	203-482-4422
Inertial Motor USA Corp Torrance CA.....	213-515-2264
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
Sankyo Seiki Mfg Co Ltd Tokyo Japan.....	812-385-1157
Shinano Kenshi Corp North Hollywood CA.....	818-764-4266
Singer Co Kearfoot Div Little Falls NJ.....	201-785-6000
Stock Drive Products Inc Div Designatronics	
New Hyde Park NY.....	516-328-0200
TRW Motor Div Dayton OH.....	513-228-3171
Vernitech Div Vernitron Corp Deer Park NY.....	516-586-5100

MOTORS—LINEAR

BEI MOTION SYS CO KIMCO DIV	
SAN MARCOS CA.....	619-744-5671
Airpax Corp Cheshire Div Cheshire CT.....	203-272-0301
Anorad Corp Hauppauge NY.....	516-231-1995
BEI Motion Sys Co Kimco Div	
San Marcos CA.....	619-744-5671
Formar Instrument Corp Ft Wayne Div	
Ft Wayne IN.....	219-747-3121
Commonwealth Engineering Montreal PQ.....	514-744-1004
Compumotor Corp Petaluma CA.....	707-778-1244
Eastern Air Devices Motor Div Dover NH.....	603-742-3330
Eastman Kodak Co Rochester NY.....	716-724-4000
Season-Avery Div J G Rubino Inc	
Auburn NY.....	315-253-7396
Haydon Switch & Instrument Inc	
Waterbury CT.....	203-756-7441
Hurst Mfg Corp Princeton IN.....	812-385-2564
Inland Motor Specialty Prods Div-Kollmorgen Corp	
Radford VA.....	703-639-9045
Magnetic Systems Rochester NY.....	716-244-2940
Midland Ross Corp/General Design	
Sun Valley CA.....	213-875-1260
Namiki Precision Jewel Co Ltd	
Hackensack NJ.....	201-343-3080
Stock Drive Products Inc Div Designatronics	
New Hyde Park NY.....	516-328-0200
TS Controls Corp New Berlin WI.....	414-782-0340
ynetics Products Santa Clara CA.....	408-988-4549

MOTORS—PERMANENT MAGNET

BEI MOTION SYS CO KIMCO DIV	
SAN MARCOS CA.....	619-744-5671
ANON USA INC ELECTRONIC COMPONENTS DIV	
LAKE SUCCESS NY.....	516-488-6700
MC MAGNETICS CORP UNIVERSAL MAGNETICS	
CORP SUB CHATSWORTH CA.....	818-341-3355
ADV PG Back Cover	
MABUCHI MOTOR AMERICA CORP	
NEW YORK NY.....	212-686-3622
ADV PG 288	
SHINANO KENSHI CORP	
NORTH HOLLYWOOD CA.....	818-764-4266
ADV PG 291	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
MGMA INSTRUMENTS INC MOTION CONTROL DIV	
BRAINTREE MA.....	617-843-5000
ADV PG 290	
SUPERIOR ELECTRIC CO THE	
BRISTOL CT.....	203-582-9561
ADV PG 290	

Aeroflex Labs Inc Plainview NY.....	516-694-6700
Aeroflex Labs Magnetic Products Div	
Plainview NY.....	516-694-6700
Aerotech Inc Pittsburgh PA.....	412-963-7470
Airpax Corp Cheshire Div Cheshire CT.....	203-272-0301
Amecorp Corp Hackettstown NJ.....	201-852-1122
American Electronics Inc Fullerton CA.....	714-871-3020
AMETEK Inc Lamb Electric Div Kent OH.....	216-673-3451
Aristo-Craft New York NY.....	212-924-4041
Ashland Electric Products Inc Brooklyn NY.....	718-965-0770
Autotrol Corp Crystal Lake IL.....	815-459-3080
Axial Magnetics Van Nuys CA.....	818-994-3346
Barber-Colman Co Motor Div Loves Park IL.....	815-968-0660
B & B Motor & Control Corp Burlington CT.....	718-784-1313
BEI Motion Sys Co Kimco Div	
San Marcos CA.....	619-744-5671
Berger Lahr Corp Jeffrey NH.....	603-532-7701
Bodine Electric Co Chicago IL.....	312-478-3515
Boston Gear Quincy MA.....	617-328-3330
Crevel Motors Inc Sub Vernitron Corp	
Carlstadt NJ.....	201-933-0220
Buehler Products Inc Raleigh NC.....	919-469-8522
Anon USA Inc Electronic Components Div	
Lake Success NY.....	516-488-6700
Sarter Motor Co Chicago IL.....	312-588-7700
Clifton Precision Litton Systems Inc	
Clifton Hts PA.....	215-622-1000
Commonwealth Engineering Montreal PQ.....	514-744-1004
Copal Electronics Co Ltd Tokyo Japan.....	03-503-3777
Crouzet Controls Inc Schaumburg IL.....	312-843-2200
Deer Electric Corp Cedarburg WI.....	414-377-0500
Dynetic Systems Corp Elk River MN.....	612-441-4300
Eastern Air Devices Motor Div Dover NH.....	603-742-3330
EG & G Torque Systems Watertown MA.....	617-924-6000
Electric Indicator Co Inc Norwalk CT.....	203-847-5861
Electro-Craft Corp Hopkins MN.....	612-931-2700
Electrohome Ltd Kitchener ON.....	519-744-7111
Emerson Industrial Controls Santa Ana CA.....	714-545-5581
General Industries Co Elyria OH.....	216-323-3136

General Scanning Inc Watertown MA.....	617-924-1010
Harowee Servo Controls Inc West Chester PA.....	216-692-2070
Haydon Switch & Instrument Inc	
Waterbury CT.....	203-756-7441
Headway Research Inc Garland TX.....	214-272-5431
Heller Corp G K Floral Park NY.....	800-323-6674
Hurst Mfg Corp Princeton IN.....	812-385-2564
IMC Magnetics Corp Universal Magnetics Corp Sub	
Chatsworth CA.....	818-341-3355
Industrial Drives, Kollmorgen Radford VA.....	703-639-2495
Inertial Motors Corp Doylestown PA.....	215-345-1010
Inland Motor Specialty Prods Div-Kollmorgen Corp	
Radford VA.....	703-639-9045
International Components Corp Chicago IL.....	312-772-4400
Japanese Products Corp Elmsford NY.....	914-592-8880
Lear Siegler Inc Romeo Div Elyria OH.....	216-323-3211
Mabuchi Motor America Corp New York NY.....	212-686-3622
Mabuchi Motor Co Ltd	
Matsudo City Chiba-pref Japan.....	0473-84-1111
Magnetic Systems Rochester NY.....	716-244-2940
Magnetic Technology Div Vernitron Corp	
Canoga Park CA.....	213-887-7700
Mallory Timers Co Indianapolis IN.....	317-636-5353
Maxon Precision Motors Inc Burlingame CA.....	415-697-9614
Micro Mo Electronics Inc St Petersburg FL.....	813-822-2529
Micronel US Vista CA.....	619-727-7400
Midland Ross Corp/General Design	
Sun Valley CA.....	213-875-1260
Mitsumi Electronics Corp Melville NY.....	516-752-7730
Molon Motor & Coil Corp Lake Zurich IL.....	312-438-4400
Montevideo Technology Inc Montevideo MN.....	612-269-6562
Motoronics Corp Little Falls NY.....	315-823-4050
Namiki Precision Jewel Co Ltd	
Hackensack NJ.....	201-343-3080
Nidec-Torin Corp Torrington CT.....	203-482-4422
Pacific Scientific Motor & Control Div	
Rockford IL.....	815-226-3030
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
Pittman Div Pen Eng & Mfg Corp	
Harleysville PA.....	215-256-6601
PMI Motion Technologies Commack NY.....	516-864-1000
Portescap U S Micromotor Div Worcester PA.....	215-277-1300
Rae Corp McHenry IL.....	815-385-3500
Reliance Electric Co Cleveland OH.....	800-245-4497
Sankyo Seiki Mfg Co Ltd Tokyo Japan.....	03-508-1157
Sequential Information Systems Inc	
Elmsford NY.....	914-592-5930
Shinano Kenshi Corp North Hollywood CA.....	818-764-4266
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Sierracin/Magnedyn Carlsbad CA.....	619-438-3321
Sigma Instruments Inc Motion Control Div	
Braintree MA.....	617-843-5000
Singer Co Controls Div Schiller Pk IL.....	312-678-4150
Singer Co Kearfoot Div Little Falls NJ.....	201-785-6000
Stock Drive Products Inc Div Designatronics	
New Hyde Park NY.....	516-328-0200
Superior Electric Co The Bristol CT.....	203-582-9561
Thomson CSF Inc White Plains NY.....	914-694-4450
Transcoil Inc Worcester PA.....	215-277-1300
TRW Motor Div Dayton OH.....	513-228-3171
Western Gear Corp Applied Technology Div	
City Of Industry CA.....	818-968-6525

MOTORS—PHONOGRAPH

MABUCHI MOTOR AMERICA CORP	
NEW YORK NY.....	212-686-3622
ADV PG 288	
SHINANO KENSHI CORP	
NORTH HOLLYWOOD CA.....	818-764-4266
ADV PG 291	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
Airpax Corp Cheshire Div Cheshire CT.....	203-272-0301
Aristo-Craft New York NY.....	212-924-4041
Ashland Electric Products Inc Brooklyn NY.....	718-965-0770
Eastman Kodak Co Rochester NY.....	716-724-4000
General Industries Co Elyria OH.....	216-323-3136
Hale Instrument Inc Houston TX.....	713-861-7574
Mabuchi Motor America Corp New York NY.....	212-686-3622
Mabuchi Motor Co Ltd	
Matsudo City Chiba-pref Japan.....	0473-84-1111
Mitsumi Electronics Corp Melville NY.....	516-752-7730
Molon Motor & Coil Corp Lake Zurich IL.....	312-438-4400
Shinano Kenshi Corp North Hollywood CA.....	818-764-4266
Shokai Far East Ltd Hartsdale NY.....	914-681-0700

MOTORS—PRINTED-CIRCUIT

Hi-Tech Components/Mitsubishi Intl	
New York NY.....	212-605-2607
Kollmorgen Corp PCK Technology Div	
Melville NY.....	516-454-4400
Midland Ross Corp/General Design	
Sun Valley CA.....	213-875-1260
PMI Motion Technologies Commack NY.....	516-864-1000

MOTORS—REMOTE CONTROL

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY.....	718-361-2133
SUPERIOR ELECTRIC CO THE	
BRISTOL CT.....	203-582-9561
ADV PG 290	
Aeroflex Labs Inc Plainview NY.....	516-694-6700
Ashland Electric Products Inc Brooklyn NY.....	718-965-0770
Bodine Electric Co Chicago IL.....	312-478-3515
Control Technology Co Inc	
Long Island City NY.....	718-361-2133
DNH Industries Inc Torrance CA.....	213-328-0750
Electro-Craft Corp Hopkins MN.....	612-931-2700
General Industries Co Elyria OH.....	216-323-3136
Molon Motor & Coil Corp Lake Zurich IL.....	312-438-4400

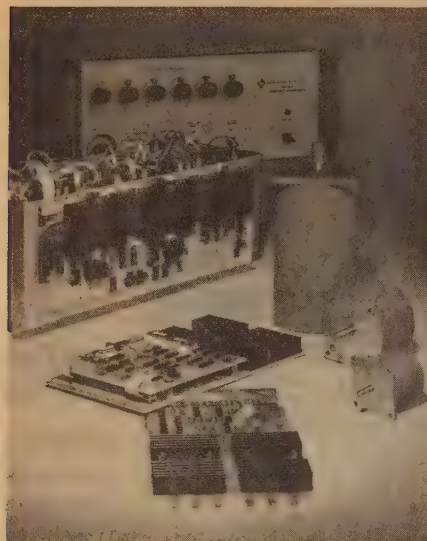
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
PMI Motion Technologies Commack NY.....	516-864-1000
Portescap U S Micromotor Div Worcester PA.....	215-277-1300
Reliance Electric Co Cleveland OH.....	800-245-4497
RMS Motor Corp Binghamton NY.....	607-775-1100
Soliton Devices Inc Semiconductor Group	
Riviera Beach FL.....	305-848-4311
Superior Electric Co The Bristol CT.....	203-582-9561
Transcoil Inc Worcester PA.....	215-277-1300

MOTORS—SERVO (MOTORS ONLY)

BEI MOTION SYS CO KIMCO DIV	
SAN MARCOS CA.....	619-744-5671
ADV PGS 176,177	
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY.....	718-361-2133
IMC MAGNETICS CORP EASTERN DIV	
WESTBURY NY.....	516-334-7070
ADV PG Back Cover	
MABUCHI MOTOR AMERICA CORP	
NEW YORK NY.....	212-686-3622
ADV PG 288	
Aeroflex Labs Inc Plainview NY.....	516-694-6700
Aeroflex Labs Magnetic Products Div	
Plainview NY.....	516-694-6700
Aerotech Inc Pittsburgh PA.....	412-963-7470
American Electronics Inc Fullerton CA.....	714-871-3020
AMETEK Inc Lamb Electric Div Kent OH.....	216-673-3451
Ashland Electric Products Inc Brooklyn NY.....	718-965-0770
Autotrol Corp Crystal Lake IL.....	815-459-3080
Axial Magnetics Van Nuys CA.....	818-994-3346
Barber-Colman Co Motor Div Loves Park IL.....	815-968-0660
B & B Motor & Control Corp Burlington CT.....	718-784-1313
BEI Motion Sys Co Kimco Div	
San Marcos CA.....	619-744-5671
Bodine Electric Co Chicago IL.....	312-478-3515
Buehler Products Inc Raleigh NC.....	919-469-8522
Clifton Precision Litton Systems Inc	
Clifton Hts PA.....	215-622-1000
Commonwealth Engineering Montreal PQ.....	514-744-1004
Compumotor Corp Petaluma CA.....	707-778-1244
Control Technology Co Inc	
Long Island City NY.....	718-361-2133
Copal Electronics Co Ltd Tokyo Japan.....	03-503-3777
Copal USA Inc Torrance CA.....	213-373-9020
Curry Engineering Co N Hollywood CA.....	213-877-1786
Dynetic Systems Corp Elk River MN.....	612-441-4300
Eastern Air Devices Motor Div Dover NH.....	603-742-3330
EG & G Torque Systems Watertown MA.....	617-924-6000
Electric Indicator Co Inc Norwalk CT.....	203-847-5861
Electro-Craft Corp Hopkins MN.....	612-931-2700
Emerson Industrial Controls Santa Ana CA.....	714-545-5581
Gall Motion Control Mountain View CA.....	415-664-6494
Harowee Servo Controls Inc West Chester PA.....	215-992-2700
IMC Magnetics Corp Eastern Div	
Westbury NY.....	516-334-7070
Industrial Drives, Kollmorgen Radford VA.....	703-639-2495
Inertial Motors Corp Doylestown PA.....	215-345-1010
Inland Motor Specialty Prods Div-Kollmorgen Corp	
Radford VA.....	703-639-9045
Integrated Photomatrix Inc Mountainside NJ.....	201-233-6010
Japanese Products Corp Elmsford NY.....	914-592-8880
Lear Siegler Inc Santa Monica CA.....	213-452-8444
Mabuchi Motor America Corp New York NY.....	212-686-3622
Magnetic Technology Div Vernitron Corp	
Canoga Park CA.....	213-887-7700
Maxon Precision Motors Inc Burlingame CA.....	415-697-9614
Micro Mo Electronics Inc St Petersburg FL.....	813-822-2529
Micronel US Vista CA.....	619-727-7400
Midland Ross Corp/General Design	
Sun Valley CA.....	213-875-1260
Montevideo Technology Inc Montevideo MN.....	612-269-6562
Motion Science Inc San Jose CA.....	408-287-0300
MPC Products Corp Skokie IL.....	312-673-8300
Mulhead Inc Mountainside NJ.....	201-233-6010
Namiki Precision Jewel Co Ltd	
Hackensack NJ.....	201-343-3080
NMB Corp Chatsworth CA.....	213-709-1555
O'Brien Inc D G Seabrook NH.....	603-474-5571
Orion Motor USA Corp Torrance CA.....	213-515-2264
Ormec Systems Corp Rochester NY.....	716-385-3520
Pacific Scientific Motor & Control Div	
Rockford IL.....	815-226-3030
Pittman Div Pen Eng & Mfg Corp	
Harleysville PA.....	215-256-6601
PMI Motion Technologies Commack NY.....	516-864-1000
Portescap U S Micromotor Div Worcester PA.....	215-277-1300
Rae Corp McHenry IL.....	815-385-3500
Reliance Electric Co Cleveland OH.....	800-245-4497
Sankyo Seiki Mfg Co Ltd Tokyo Japan.....	03-508-1157
Sequential Information Systems Inc	
Elmsford NY.....	914-592-5930
Servo-Tek Products Co Hawthorne NJ.....	201-427-8100
Sierracin/Magnedyn Carlsbad CA.....	619-438-3321
Singer Co Kearfoot Div Little Falls NJ.....	201-785-6000
Tech Systems Corp Precise Power Div	
Thomaston CT.....	203-283-5801
Thomson CSF Inc White Plains NY.....	914-694-4450
Transcoil Inc Worcester PA.....	215-277-1300
TRW Motor Div Dayton OH.....	513-228-3171
TS Products Inc Arleta CA.....	818-896-6676
Vernitech Div Vernitron Corp Deer Park NY.....	516-586-5100

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CONTROL TECHNOLOGY CO INC	
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MABUCHI MOTOR AMERICA CORP	
NEW YORK NY.....	212-686-3622
ADV PG 288	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
SIGMA INSTRUMENTS INC MOTION CONTROL DIV	
BRAINTREE MA.....	617-843-5000
ADV PG 290	
SUPERIOR ELECTRIC CO THE	
BRISTOL CT.....	203-582-9561
ADV PG 290	
Acme Model Engineering Co Ridgfield NJ.....	201-943-7650
Aeroflex Labs Magnetic Products Div	
Plainview NY.....	516-694-6700
American Electronics Inc Fullerton CA.....	714-871-3020
Axial Magnetics Van Nuys CA.....	818-994-3346
Barber-Colman Co Motor Div Loves Park IL.....	815-968-0660
B & B Motor & Control Corp Burlington CT.....	718-784-1313
Binder Corp Port Huron MI.....	313-987-2700
Bodine Electric Co Chicago IL.....	312-478-3515
Boston Gear Quincy MA.....	617-328-3300
Bowmar Instrument Corp Ft Wayne Div	
Ft Wayne IN.....	219-747-3121
Bruce Electric Equipment Corp	
Lindenhurst NY.....	516-226-2424
Buehler Products Inc Raleigh NC.....	919-469-8522
Canon USA Inc Electronic Components Div	
Lake Success NY.....	516-488-6700
Carter Motor Co Chicago IL.....	312-588-7700
Control Technology Co Inc	
Long Island City NY.....	718-361-2133
Copai USA Inc Torrrence CA.....	213-373-9020
Curry Engineering Co N Hollywood CA.....	213-877-1786
Dorr Electric Corp Cedarburg WI.....	414-377-0500
Dynetic Systems Corp Elk River MN.....	612-441-4300
Eastern Air Devices Motor Div Dover NH.....	603-742-3330
Electric Indicator Co Inc Norwalk CT.....	203-847-5861
Electro-Craft Corp Hopkins MN.....	612-931-2700
Emerson Electric Co Industrial Controls Div	
Santa Ana CA.....	714-545-5581
Emerson Industrial Controls Santa Ana CA.....	714-545-5581
Headway Research Inc Garland TX.....	214-272-5431
Heller Corp G K Floral Park NY.....	800-323-6674
Integrated Photomatrix Inc Mountainside NJ.....	201-233-6010
Japanese Products Corp Elmford NY.....	914-592-8880
Louis Allis Div MagneTek Inc Milwaukee WI.....	414-481-6000
Mabuchi Motor America Corp New York NY.....	212-686-3622
Mabuchi Motor Co Ltd	
Matsudo City Chiba-pref Japan.....	0473-84-1111
McLean Engineering Div Zero Corp	
Princeton Junction NJ.....	609-799-0100
Micro Mo Electronics Inc St Petersburg FL.....	813-822-2529

Midland Ross Corp/General Design	
Sun Valley CA.....	213-875-126
MPC Products Corp Skokie IL.....	312-673-830
Oriental Motor USA Corp Torrrence CA.....	213-515-226
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-360
PMI Motion Technologies Commack NY.....	516-864-100
Power Functions Engineering Inc Garland TX.....	214-278-095
Reliance Electric Co Cleveland OH.....	800-245-448
RMS Motor Corp Binghamton NY.....	607-775-110
Robbins & Myers Inc Elec Motor Div	
Gallipolis OH.....	614-446-986
Sequential Information Systems Inc	
Elmsford NY.....	914-592-593
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Sigma Instruments Inc Motion Control Div	
Braintree MA.....	617-843-500
Soliton Devices Inc Semiconductor Group	
Riviera Beach FL.....	305-848-431
Stock Drive Products Inc Div Designatronics	
New Hyde Park NY.....	516-328-020
Superior Electric Co The Bristol CT.....	203-582-956
Tech Systems Corp Precise Power Div	
Thomaston CT.....	203-283-580
Thomson CSF Inc White Plains NY.....	914-694-445
Workman Electronic Products Inc	
Sarasota FL.....	800-237-666

MOTORS—STEPPING

IMC/HANSEN MFG CO INC SUB	
PRINCETON IN.....	812-385-341
ADV PG Back Cover	
IMC MAGNETICS CORP WESTERN DIV	
CERRITOS CA.....	213-926-092
ADV PG Back Cover	
MAXWELL ELECTRONICS	
RESEARCH TRIANGLE PARK NC.....	919-846-163
SHINANO KENSHI CORP	
NORTH HOLLYWOOD CA.....	818-764-426
ADV PG 291	
SIGMA INSTRUMENTS INC MOTION CONTROL DIV	
BRAINTREE MA.....	617-843-500
ADV PG 290	
SUPERIOR ELECTRIC CO THE	
BRISTOL CT.....	203-582-956
ADV PG 290	
Abrams Instrument Corp Lansing MI.....	517-332-640
Aeroflex Labs Inc Plainview NY.....	516-694-6700
Aerotech Inc Pittsburgh PA.....	412-963-747
Airpak Corp Cheshire Div Cheshire CT.....	203-272-030
American Electronics Inc Fullerton CA.....	714-871-3020
Autotrol Corp Crystal Lake IL.....	815-459-308
B & B Motor & Control Corp Burlington CT.....	718-784-1313
Bellofram Corp A Rexford Co Burlington MA.....	617-272-210
Berger Lahr Corp Jaffrey NH.....	603-532-770
Bodine Electric Co Chicago IL.....	312-478-351
Clifton Precision Litton Systems Inc	
Clifton Hts PA.....	215-622-100
Commonwealth Engineering Montreal PQ.....	514-744-100
Compumotor Corp Petaluma CA.....	707-778-124
Control Technology Corp Hopkinton MA.....	617-435-955
Copai Electronics Co Ltd Tokyo Japan.....	03-503-377
Copai USA Inc Torrrence CA.....	213-373-902
Crouzet Controls Inc Schaumburg IL.....	312-843-220
Curry Engineering Co N Hollywood CA.....	213-877-178
CyberPak Co Brookfield IL.....	312-387-080
Dreislaker Electric Motors Inc Glen Ellyn IL.....	312-469-751
Eastern Air Devices Motor Div Dover NH.....	603-742-333
General Scanning Inc Watertown MA.....	617-924-101
Harowe Servo Controls Inc West Chester PA.....	215-692-270
Haydon Switch & Instrument Inc	
Waterbury CT.....	203-756-744
Hurst Mfg Corp Princeton IN.....	812-385-256
IMC/Hansen Mfg Co Inc Sub Princeton IN.....	812-385-341
IMC Magnetics Corp Western Div Cerritos CA.....	213-926-092
Inland Motor Specialty Prods Div-Kollmorgen Corp	
Radford VA.....	703-639-904
Integrated Photomatrix Inc Mountainside NJ.....	201-233-601
Japanese Products Corp Elmford NY.....	914-592-888
Klinger Scientific Corp Richmond Hill NY.....	718-846-370
Maxwell Electronics	
Research Triangle Park NC.....	919-846-163
Mesur-Matic Electronics Corp Salem MA.....	617-745-700
Mitsumi Electronics Corp Melville NY.....	516-752-773
Molon Motor & Coil Corp Lake Zurich IL.....	312-438-440
Montevideo Technology Inc Montevideo MN.....	612-269-656
Motion Science Inc San Jose CA.....	408-287-030
MPC Products Corp Skokie IL.....	312-673-830
Namiki Precision Jewel Co Ltd	
Hackensack NJ.....	201-343-308
Nidec-Torin Corp Torrington CT.....	203-482-442
NMB Corp Chatsworth CA.....	213-709-155
Oriental Motor USA Corp Torrrence CA.....	213-515-226
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands.....	04079111
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-360
PMI Motion Technologies Commack NY.....	516-864-100
Portescap U S Micromotor Div Worcester PA.....	215-277-130
Rapidsyn Div API Oceanside CA.....	619-439-750
Sankyo Seiki Mfg Co Ltd Tokyo Japan.....	03-508-115
Shinano Kenshi Corp North Hollywood CA.....	818-764-426
Sigma Instruments Inc Motion Control Div	
Braintree MA.....	617-843-500
Singer Co Kearfott Div Little Falls NJ.....	201-785-600
Soliton Devices Inc Semiconductor Group	
Riviera Beach FL.....	305-848-431
Stock Drive Products Inc Div Designatronics	
New Hyde Park NY.....	516-328-020
Superior Electric Co The Bristol CT.....	203-582-956
Transcoil Inc Worcester PA.....	215-277-130
Vernithec Div Vernitron Corp Deer Park NY.....	516-586-510
Warner Electric Brake & Clutch Co	
South Beloit IL.....	815-389-377
Xynetics Products Santa Clara CA.....	408-988-454

MOTORS—SUBFRACTIONAL HP

EL MOTION SYS CO KIMCO DIV	
SAN MARCOS CA	619-744-5671
ANON USA INC ELECTRONIC COMPONENTS DIV	
LAKE SUCCESS NY	516-488-6700
ADV PG 291	
MC MAGNETICS CORP EASTERN DIV	
WESTBURY NY	516-334-7070
ADV PG Back Cover	
MC/HANSEN MFG CO INC SUB	
PRINCETON IN	812-385-3415
ADV PG Back Cover	
ABUCHI MOTOR AMERICA CORP	
NEW YORK NY	212-686-3622
ADV PG 288	
HINANO KENSHI CORP	
NORTH HOLLYWOOD CA	818-764-4266
ADV PG 291	
HOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
UPERIOR ELECTRIC CO THE	
BRISTOL CT	203-582-9561
ADV PG 290	
eroflex Labs Magnetic Products Div	
Plainview NY	516-694-6700
erovox Inc New Bedford MA	617-994-9661
irpax Corp Cheshire Div Cheshire CT	203-272-0301
merican Electronics Inc Fullerton CA	714-871-3020
risto-Craft New York NY	212-924-4041
shland Electric Products Inc Brooklyn NY	718-965-0770
utrotol Corp Crystal Lake IL	815-459-3080
xial Magnetics Van Nuys CA	818-994-3346
arber-Colman Co Motor Div Loves Park IL	815-968-0680
& B Motor & Control Corp Burlington CT	718-784-1313
El Motion Sys Co Kimco Div	
San Marcos CA	619-744-5671
odine Electric Co Chicago IL	312-478-3515
revel Motors Inc Sub Vernitron Corp	
Carlstadt NJ	201-933-0220
uehler Products Inc Raleigh NC	919-469-8522
anon USA Inc Electronic Components Div	
LAKE SUCCESS NY	516-488-6700
arter Motor Co Chicago IL	312-588-7700
lifton Precision Litton Systems Inc	
Clifton Hts PA	215-622-1000
ommonwealth Engineering Montreal PQ	514-744-1004
opal Electronics Co Ltd Tokyo Japan	03-503-3777
opal USA Inc Torrance CA	213-373-9020
rouzet Controls Inc Schaumburg IL	312-843-2200
urry Engineering Co N Hollywood CA	818-877-1786
ynetic Systems Corp Elk River MN	612-441-4300
astern Air Devices Motor Div Dover NH	603-742-3330
astman Kodak Co Rochester NY	716-724-4000
ectrohume Ltd Kitchener ON	519-744-7111
runklin Electric Co Inc Bluffton IN	219-824-2900
eneral Industries Co Elyria OH	216-323-3136
leason-Avery Div J G Rubino Inc	
Auburn NY	315-253-7396
ale Instrument Inc Houston TX	713-861-7574
lowe Servo Controls Inc West Chester PA	215-692-2700
aydon Switch & Instrument Inc	
Waterbury CT	203-756-7441
eadway Research Inc Garland TX	214-272-5431
iller Corp G K Floral Park NY	800-323-6674
IC Magnetics Corp Eastern Div	
Westbury NY	516-334-7070
IC/Hansen Mfg Co Inc Sub Princeton IN	812-385-3415
erial Motors Corp Doylestown PA	215-345-1010
egrated Photomatrix Inc Mountainside NJ	201-233-6010
egration Components Corp Chicago IL	312-772-4400
apanese Products Corp Elmsford NY	914-592-8880
abuchi Motor America Corp New York NY	212-686-3622
abuchi Motor Co Ltd	
Matsudo City Chiba-pref Japan	0473-84-1111
agnetic Technology Div Vernitron Corp	
Canoga Park CA	213-887-7700
axon Precision Motors Inc Burlington CA	415-697-9614
IC-Lean Engineering Div Zero Corp	
Princeton Junction NJ	609-799-0100
loro Mo Electronics Inc St Petersburg FL	813-822-2529
idland Ross Corp/General Design	
Sun Valley CA	213-875-1260
ltsumi Electronics Corp Melville NY	516-752-7730
olon Motor & Coil Corp Lake Zurich IL	312-438-4400
lonteideo Technology Inc Montevideo MN	612-269-6562
lotronics Corp Little Falls NY	315-823-4050
IPC Products Corp Skokie IL	312-673-8300
amiki Precision Jewel Co Ltd	
Hackensack NJ	201-343-3080
iental Motor USA Corp Torrance CA	213-515-2264
ioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
ltman Div Pen Eng & Mfg Corp	
Harleysville PA	215-256-6601
MI Motion Technologies Commack NY	516-864-1000
ortescap U S Micromotor Div Worcester PA	215-277-1300
ae Corp McHenry IL	815-385-3500
eliance Electric Co Cleveland OH	800-245-4497
MS Motor Corp Binghamton NY	607-775-1100
obbins & Myers Inc Elec Motor Div	
Gallipolis OH	614-446-9868
hinano Kensi Corp North Hollywood CA	818-764-4266
hokai Far East Ltd Hartsdale NY	914-681-0700
inger Co Kearfott Div Little Falls NJ	201-785-6000
ock Drive Products Inc Div Designtronics	
New Hyde Park NY	516-328-0200
uperior Electric Co The Bristol CT	203-582-9561
ynektron Corp Portland OR	503-684-3090
ansicoil Inc Worcester PA	215-277-1300
RW Motor Div Dayton OH	513-228-3171
ernitech Div Vernitron Corp Deer Park NY	516-586-5100
estern Gear Corp Applied Technology Div	
City Of Industry CA	818-968-6525

SKC ELECTRIC MOTORS..SKC ELEC

ELECTRIC MOTORS...SKC ELECTRIC MO

STEPPING MOTORS



Newly developed 35mm 1.8°, industry standard 39 mm (size 17) 57 mm (size 23) frames. Popular step angles, 0.9°, 1.8°, 3.6°, 3.75°. Hybrid, bifilar, 3% accuracy, precision ball bearings, state of the art performance. **Applications:** Floppy disk drives, rigid disk drives, printers, plotters, medical equipment, office automation machine.

3 PHASE BRUSHLESS MOTORS



Inner or outer rotor, 40 mm to 90 mm dia., super precision spindle, integral electronics (optional), hall generator, tach phase winding, 25,000 hours life. **Applications:** Optical disc drives, video recorders, Winchester disk drives, streamers, floppy disk drives and data recorders.

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SKC ELECTRIC MOTORS...SKC EL

HYSTERISIS SYNCHRONOUS MOTOR

100 VAC or 115 VAC, 50 HZ and 60 HZ, 78 mm and 85 mm dia., 900, 1800 or 3600 RPM, pullout torque to 800 gm cm, with or without cooling fan. **Applications:** Capstan drive, tape deck, video disk drive, medical equipment, turntables.

CORELESS DC MOTORS

Low cost, high speed and acceleration, low inertia, frame sizes 12 mm to 50 mm. Starting torque 8.5 to 1400 g-cm. Frequency generator, 5, 6, 12, 24 or 48 pulse/Rev (optional). **Applications:** Cassette recorders, office equipment, medical equipment and small plotters.

TAPE TRANSPORT



Three direct drive brushless DC motors for endurance demanding applications.

Sub-fractional DC Motors

STEPPERS

- Low in cost, high in performance
- Modifications of standard units available in OEM quantities
- Step angle 7.5 and 15 degrees
- 35mm, 42mm and 55mm diameters
- Non grain-oriented, radial grain-oriented and multi-pole grain-oriented magnets
- 4 phase, operating in a 2-2 driving mode
- Rated voltages of 12 or 24 volts

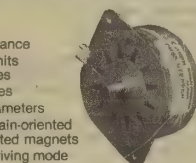


INCREMENTAL LASER ROTARY ENCODER

- Patented laser technology
- 81,000 sinusoidal or square pulses per revolution
- Compact - 36mm diameter
- Low cost

GEARMOTORS

- Over 100 different combinations
- Ratios from 8:1 to 3000:1
- 50 to 20,000 g-cm rated torque
- 1.3 to 600 rpm
- 6 to 24 VDC
- Concentric or offset shaft
- Gearheads from 20mm to 54mm dia.



BOX FANS

- Low cost
- Long life
- Low mechanical and electrical noise

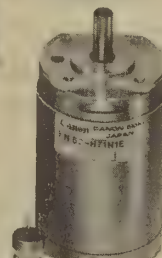
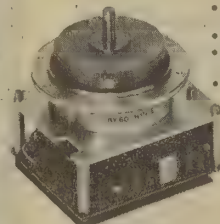
CORELESS

- 22mm to 30mm dia.
- 70 to 220 g-cm starting torque
- Ball bearings available on some models



BRUSHLESS

- Inner and outer rotor types
- Axial and radial gap types
- Flat type using pattern coils available
- 39mm to 60mm diameter
- 120 to 300 g-cm starting torque
- With or without electronics



IRON CORE

- Over 70 models
- 13mm to 52mm dia.
- 18 g-cm to 3000 g-cm starting torque
- Integral AC tach, mechanical governor models available
- Ball or sleeve bearings on some models

If you are an OEM with a requirement for sub-fractional DC motors call Canon directly or send for our free short form catalog.

Canon

CANON U.S.A. INC. Components Division

New York Office/Headquarters
One Canon Plaza
Lake Success, NY 11042
(516) 488-6700 • Telex 96-1333
FAX 516-488-6522

Santa Clara Office
4000 Burton Drive
Santa Clara, CA 95054
(408) 986-8750 • Telex 17-1961
FAX 480-986-0230

MOTORS—SYNCHRONOUS

IMC MAGNETICS CORP EASTERN DIV	
WESTBURY NY.....	516-334-7070
ADV PG Back Cover	
IMC/HANSEN MFG CO INC SUB	
PRINCETON IN.....	812-385-3415
ADV PG Back Cover	
SHINANO KENSHI CORP	
NORTH HOLLYWOOD CA.....	818-764-4266
ADV PG 291	
SIGMA INSTRUMENTS INC MOTION CONTROL DIV	
BRAINTREE MA.....	617-843-5000
ADV PG 290	
SUPERIOR ELECTRIC CO THE	
BRISTOL CT.....	203-582-9561
ADV PG 290	
Aeroflex Labs Inc Plainview NY.....	516-694-6700
Airpax Corp Cheshire Div Cheshire CT.....	203-272-0301
American Electronics Inc Fullerton CA.....	714-871-3020
Ashland Electric Products Inc Brooklyn NY.....	718-965-0770
Autotrol Corp Crystal Lake IL.....	815-459-3080
Axial Magnetics Van Nuys CA.....	818-984-3346
B & B Motor & Control Corp Burlington CT.....	718-784-1313
Berger Lahr Corp Jaffrey NH.....	603-532-7701
Bodine Electric Co Chicago IL.....	312-478-3515
Brevet Motors Inc Sub Vernitron Corp	
Carlsbad NJ.....	201-933-0220
Bristol Saybrook Co Div Pratt-Read Corp	
Old Saybrook CT.....	203-388-3414
Clifton Precision Litton Systems Inc	
Clifton Hts PA.....	215-622-1000
Commonwealth Engineering Montreal PQ.....	514-744-1004
Compumotor Corp Petaluma CA.....	707-778-1244
Copal Electronics Co Ltd Tokyo Japan.....	813-503-3777
Crouzet Controls Inc Schaumburg IL.....	312-843-2200
Curry Engineering Co N Hollywood CA.....	312-877-1786
Eastern Air Devices Motor Div Dover NH.....	603-742-3330
Eastman Kodak Co Rochester NY.....	716-724-4000
Electric Indicator Co Inc Norwalk CT.....	203-847-5861
Electrohome Ltd Kitchener ON.....	519-744-7111
General Industries Co Elyria OH.....	216-323-3136
General Scanning Inc Watertown MA.....	617-924-1010
Hale Instrument Inc Houston TX.....	713-861-7574
Haroware Servo Controls Inc West Chester PA.....	215-692-2700
Haydon Switch & Instrument Inc	
Waterbury CT.....	203-756-7441
Headway Research Inc Garland TX.....	214-272-5431
Honeywell Process Control Div	
Ft Washington PA.....	215-641-3000
Hurst Mfg Corp Princeton IN.....	812-385-2564
IMC Magnetics Corp Eastern Div	
Westbury NY.....	516-334-7070
IMC/Hansen Mfg Co Inc Sub Princeton IN.....	812-385-3415
Integrated Photomatrix Inc Mountainside NJ.....	201-233-6010
Japanese Products Corp Elmsford NY.....	914-592-8880
Louis Allis Div MagneTek Inc Milwaukee WI.....	414-481-6000
Mallory Timers Co Indianapolis IN.....	317-636-5353
McLean Engineering Div Zero Corp	
Princeton Junction NJ.....	609-799-0100
Midland Ross Corp/General Design	
Sun Valley CA.....	213-875-1260
Mitsumi Electronics Corp Melville NY.....	516-752-7730
Molon Motor & Coil Corp Lake Zurich IL.....	312-438-4400
Montevideo Technology Inc Montevideo MN.....	612-269-6562
Motronics Corp Little Falls NY.....	315-823-4050
MPC Products Corp Skokie IL.....	312-673-8300
Muirhead Inc Mountainside NJ.....	201-233-6010
Nidec-Torin Corp Torrington CT.....	203-482-4422
Oriental Motor USA Corp Torrance CA.....	213-515-2264
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands.....	040791111
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
Rapidyn Div API Oceanside CA.....	619-439-7500
Reliance Electric Co Cleveland OH.....	800-245-4497
Reuland Electric Co City of Industry CA.....	213-964-6411
Robbins & Myers Inc Elec Motor Div	
Gallipolis OH.....	614-446-9868
Sankyo Seiki Mfg Co Ltd Tokyo Japan.....	03-508-1157
Sequential Information Systems Inc	
Elmsford NY.....	914-592-5930
Shinano Kenishi Corp North Hollywood CA.....	818-764-4266
Sieracini/Magnedney Carlsbad CA.....	619-438-3321
Sigma Instruments Inc Motion Control Div	
Braintree MA.....	617-843-5000
Singer Co Controls Div Schiller Pk IL.....	312-678-4150
Singer Co Kearfott Div Little Falls NJ.....	201-785-6000
Stock Drive Products Inc Div Designatronics	
New Hyde Park NY.....	516-328-0200
Superior Electric Co The Bristol CT.....	203-582-9561
TRW Motor Div Dayton OH.....	513-228-3171
Vernitron Div Vernitron Corp Deer Park NY.....	516-586-5100

MOTORS—TIMER & CLOCK

IMC/HANSEN MFG CO INC SUB	
PRINCETON IN.....	812-385-3415
ADV PG Back Cover	
MABUCHI MOTOR AMERICA CORP	
NEW YORK NY.....	212-686-3622
ADV PG 288	
Airpax Corp Cheshire Div Cheshire CT.....	203-272-0301
Autotrol Corp Crystal Lake IL.....	815-459-3080
Bodine Electric Co Chicago IL.....	312-478-3515
Bristol Saybrook Co Div Pratt-Read Corp	
Old Saybrook CT.....	203-388-3414
Commonwealth Engineering Montreal PQ.....	514-744-1004
Crouzet Controls Inc Schaumburg IL.....	312-843-2200
Eastern Air Devices Motor Div Dover NH.....	603-742-3330
Eastman Kodak Co Rochester NY.....	716-724-4000
Gleason-Avery Div J G Rubino Inc	
Auburn NY.....	315-253-7396
Haydon Switch & Instrument Inc	
Waterbury CT.....	203-756-7441
Hurst Mfg Corp Princeton IN.....	812-385-2564
IMC/Hansen Mfg Co Inc Sub Princeton IN.....	812-385-3415

Mabuchi Motor America Corp New York NY.....	212-686-3622
Mallory Timers Co Indianapolis IN.....	317-636-5353
Micro Mo Electronics Inc St Petersburg FL.....	813-822-2529
Mitsumi Electronics Corp Melville NY.....	516-752-7730
Sankyo Seiki Mfg Co Ltd Tokyo Japan.....	03-508-1157
Singer Co Controls Div Schiller Pk IL.....	312-678-4150

MOUNTING RACKS

See Racks

MOUNTS—ANTENNA

See Antenna Mounts

MOUNTS—COMPONENT

See Microwave Mounts; Transistor Parts

See Also Holders Reference List

MOUNTS—ELECTRON GUN

See Tube Parts

MOUNTS—VIBRATION & SHOCK

See Vibration & Shock Mounts

MULTICODERS

Aydin Vector Div Newtown PA.....	215-968-4271
Base Ten Systems Inc Trenton NJ.....	609-586-7010
Fifth Dimension Inc Trenton NJ.....	609-393-8350

MULTICOUPLER AMPLIFIERS

See Amplifiers

MULTICOUPLERS

ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY.....	716-427-8300
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA.....	818-993-8257
TDK CORP TOKYO JAPAN	03-278-5111
Adams-Russell Co Inc Anzac Div	
Burlington MA.....	617-273-3333
Aiken Advanced Sys Div Amstar Tech Prods Inc	
Alexandria VA.....	703-370-0900
American Computer Group Inc Boston MA.....	617-437-1100
Applied Research Inc Plainview NY.....	516-349-9200
Austron Inc Austin TX.....	512-251-2133
Celwage R F Marlboro NJ.....	201-462-1880
Comdel Inc Beverly MA.....	617-927-3144
Delta Electronics Inc Alexandria VA.....	703-354-3350
Dewey Electronics Corp Oakland NJ.....	201-337-4700
Eaton Corp Microwave Prods Div	
Sunnyvale CA.....	408-730-6300
Elcom Systems Inc Boca Raton FL.....	305-994-1774
Electronic Navigation Industries Inc	
Rochester NY.....	716-427-8300
Electrospane Systems Inc Richardson TX.....	214-783-2004
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
K & L Microwave Inc Salisbury MD.....	301-749-2424
Kaptron Inc Palo Alto CA.....	415-493-8008
KD Electronics Inc Whippany NJ.....	201-887-8100
Locus Inc State College PA.....	814-466-6275
Lorch Electronics Corp Englewood NJ.....	201-569-8282
Maury Microwave Corp Cucamonga CA.....	714-987-4715
Merrimac Industries Inc West Caldwell NJ.....	201-575-1300
Mu-Del Electronics Inc Silver Spring MD.....	301-587-6087
North Hills Electronics Inc Glen Cove NY.....	516-671-5700
Olektron Corp Webster MA.....	617-943-7440
P G Electronics Ltd Weston ON.....	416-741-7682
Premier Microwave Corp Port Chester NY.....	914-939-8900
Sanders Associates Inc Nashua NH.....	603-885-4321
Serial Lab Products Inc Marlboro MA.....	617-481-1684
Sinclair Radio Labs Inc Tonawanda NY.....	716-874-3682
Solid State Electronics Corp Northridge CA.....	818-993-8257
TDK Corp Tokyo Japan.....	03-278-5111
Tracor Inc Austin TX.....	512-929-2051
Transco Products Inc Camarillo CA.....	805-987-2201
Watkins-Johnson Co Palo Alto CA.....	415-493-4141

MULTILAYER BOARDS

See Printed Circuits

MULTIMETERS

See Voltmeters—Multimeter;

Volt-Ohm-Milliammeters

MULTIPLEX COMMUNICATIONS EQUIPMENT

See Communications Listings

MULTIPLEXERS & CONCENTRATORS—FREQUENCY MUX

AEG CORPORATION SOMERVILLE NJ	201-722-9800
Acromag Inc Wixom MI.....	313-624-1511
AEG Corporation Somerville NJ.....	201-722-9800
American Computer Group Inc Boston MA.....	617-437-1100
Astronautics Corp of America Milwaukee WI.....	414-447-8201
Bo-Sherrel Co Inc Fremont CA.....	415-792-0301
Century Analysis Inc Pacheco CA.....	415-680-7850
ComData Corp Morton Grove IL.....	312-470-9600
Data-Control Systems A CompuDyne Co	
Rockville MD.....	301-279-9100
Data General Corp Westboro MA.....	617-366-8800
Dataproducs Corp Woodland Hills CA.....	818-887-8000
Digital Equipment Corp Maynard MA.....	617-897-5100
Dowdy RFL Industries Inc Commun	
Boonton NJ.....	201-334-3100
Electronic Development Labs Inc	
Hauppauge NY.....	516-435-2800
Emulex Corp Costa Mesa CA.....	714-662-5600
Ericsson Communications Garden Grove CA.....	714-895-3900
Gandalf Data Inc Wheeling IL.....	312-541-6000
General DataComm Systems Inc	
Melbourne FL.....	305-676-3500
Infotronics Systems Corp Cherry Hill NJ.....	609-424-9400
Karkar Electronics Inc San Francisco CA.....	415-552-1200
Micom Systems Inc Simi Valley CA.....	805-583-8600
Microperipheral Corp Redmond WA.....	206-881-7500
Paradyne Corp Largo FL.....	813-530-2000
Phalo Corp Optical Systems Div	
Simi Valley CA.....	805-522-3333
Racal-Milgo Inc Sunrise.....	305-475-1600
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX.....	214-996-5000
SCI Systems Inc Huntsville AL.....	205-882-4800
Tek-Corp Corp San Jose CA.....	408-435-9500
Teledyne Microelectronics Los Angeles CA.....	213-870-9883
West Coast Research Corp Los Angeles CA.....	213-478-8883

MULTIPLEXERS & CONCENTRATORS—PROGRAMMABLE

OPTICAL DATA SYSTEMS INC	
RICHARDSON TX.....	214-234-6400
ADV PG 293	
OPTO-22 HUNTINGTON BEACH CA	714-891-5861
Able Computer Costa Mesa CA.....	714-979-7000
Acromag Inc Wixom MI.....	313-624-1511
Action Instruments Inc San Diego CA.....	619-279-5772
A D Data Systems Inc Rochester NY.....	716-334-9640
Amdahl Communications Systems Div	
Richardson TX.....	214-699-9500
American Computer Group Inc Boston MA.....	617-437-1100
Anderson Jacobson Inc San Jose CA.....	408-263-8552
Aydin Vector Div Newtown PA.....	215-968-4271
Base Ten Systems Inc Trenton NJ.....	609-586-7010
Bay Technical Associates Inc	
Bay St Louis MS.....	601-467-8200
Blonder-Tongue Labs Inc Old Bridge NJ.....	201-679-4000
ComData Corp Morton Grove IL.....	312-470-9600
ComDesign Inc Goleta CA.....	805-964-9800
Computer Communications Inc Torrance CA.....	312-320-9100
Computrol Div Kidde Automated Sys Inc	
Ridgefield CT.....	203-544-9911
Concord Data Systems Inc Waltham MA.....	617-890-1300
Digital Communication Assoc Alpharetta GA.....	404-442-4000
Digital Equipment Corp Maynard MA.....	617-897-5100
Dynatech Packet Tech Alexandria VA.....	703-642-9300
Emulex Corp Costa Mesa CA.....	714-662-5600
Gandalf Data Inc Wheeling IL.....	312-541-6000
GEN/COMP Inc Canton MA.....	617-828-2000
General DataComm Systems Inc	
Melbourne FL.....	305-676-3500
Grim Corp Medford NJ.....	609-267-7950
Halcyon Communications Inc San Jose CA.....	408-293-9870
Harris Corp Govt Sys Sector Melbourne FL.....	305-727-4000
Information Transfer Industrial Inc	
Holcomb NY.....	716-657-7000
Infotronics Systems Corp Cherry Hill NJ.....	609-424-9400
Kaufman Data Commun Inc Mt View CA.....	415-962-8800
Micom Systems Inc Simi Valley CA.....	805-583-8600
Multi-Tech Systems Inc New Brighton MN.....	612-631-3555
MVP Electronics Orange CA.....	714-639-9224
NCR Comten Inc St Paul MN.....	612-638-7777
Optical Data Systems Inc Richardson TX.....	214-234-6400
Opto-22 Huntington Beach CA.....	714-891-5861
Paradyne Corp Largo FL.....	813-530-2000
Phalo Corp Optical Systems Div	
Simi Valley CA.....	805-522-3333
Racal-Milgo Inc Sunrise.....	305-475-1600
Serial Lab Products Inc Marlboro MA.....	617-481-1684
Spartan Technology Inc Rio Rancho NM.....	505-892-5900
Sperry Corp Aerospace & Marine Group	
Phoenix AZ.....	602-869-2311
Teledyne Microelectronics Los Angeles CA.....	213-870-9883
Timeplex Inc Woodcliff Lake NJ.....	201-391-1111

MULTIPLEXERS & CONCENTRATORS—TIME DIVISION MUX

AEG CORPORATION SOMERVILLE NJ	201-722-9800
OPTICAL DATA SYSTEMS INC	
RICHARDSON TX.....	214-234-6400
ADV PG 293	
AEG Corporation Somerville NJ.....	201-722-9800
Amdahl Communications Systems Div	
Richardson TX.....	214-699-9500

American Computer Group Inc Boston MA	617-437-1100
Alcologic Corp Peabody MA	617-532-5660
Altel Communications Corp Worcester MA	617-752-5690
Astromac Corp St Paul MN	612-227-8651
Astronautics Corp of America Milwaukee WI	414-447-8200
Avanti Scientific Corp Melbourne FL	305-725-8000
Avanti Communications Corp Newport RI	401-849-4660
Aydin Vector Div Newtown PA	215-968-4271
Base Ten Systems Inc Trenton NJ	609-586-7010
B3 Computer Corp Minneapolis MN	612-881-6955
B-Sherrel Co Inc Fremont CA	415-792-0354
Canoga Data Systems Canoga Park CA	213-888-2003
Cardet Microelectronics Inc Sunnyvale CA	408-752-5000
ComData Corp Morton Grove IL	312-470-9600
Complex Systems Inc Huntsville AL	205-830-4310
Compurol Div Kidde Automated Sys Inc	
Ridgefield CT	203-544-9371
Data Comm for Business Inc Champaign IL	217-352-3207
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Dataproducts Corp Woodland Hills CA	818-887-8000
Decom Systems Inc San Marcos CA	619-744-1002
Digital Communication Assoc Alpharetta GA	404-442-4000
Digital Equipment Corp Maynard MA	617-897-5111
Dowty RFL Industries Inc Commun	
Boonton NJ	201-334-3100
Dynatech Packet Tech Alexandria VA	703-642-9391
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Electronics International Hyannis MA	617-778-0700
First Computer Corp Westmont IL	312-920-1050
General Data Comm Systems Inc	
Melbourne FL	305-676-3500
Alcyon Communications Inc San Jose CA	408-293-9970
Maris Corp Govt Sys Sector Melbourne FL	305-727-4000
Finet Inc North Andover MA	617-681-0800
Infotronics Corp Cherry Hill NJ	609-424-9400
Integrated Photomatrix Inc Mountainside NJ	201-333-6200
International Data Sciences Inc Lincoln RI	203-438-3591
Lightwave Communications Inc Ridgefield CT	619-278-4100
Local TerraCom San Diego CA	617-248-2036
Matrix Corp Indianapolis IN	805-583-8600
Com Systems Inc Simi Valley CA	805-583-8600
Microperipheral Corp Redmond WA	206-881-7544
Ulti-Tech Systems Inc New Brighton MN	612-631-3550
VP Electronics Orange CA	714-639-9246
CR Comten Inc St Paul MN	612-638-7777
Optical Data Systems Inc Richardson TX	214-234-6400
Aradyne Corp Largo FL	813-530-2000
Local Corp Optical Systems Div	
Simi Valley CA	805-522-3333
Local-Milgo Inc Sunrise	305-475-1601
Local-Vadic Inc Milpitas CA	408-946-2227
Com Systems Inc Boulder CO	303-530-1620
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
CI Systems Inc Huntsville AL	205-882-4800
Atitec Corp Newport RI	401-849-4353
Atitec Corp San Diego CA	619-453-8970
At-Tron Inc Westford MA	617-692-5100
Teledyne Microelectronics Los Angeles CA	213-870-9831
Alphone Corp Kirkland WA	206-827-9626
Amplex Inc Woodcliff Lake NJ	201-391-1111
Universal Data Systems Huntsville AL	205-837-8100
Veristron Div Keene Corp Washington DC	202-722-8600

MULTIPLEXERS—COMMUTATORS

See Commutators

MULTIPLEXERS—IC DEVICES

See ICs Listings

MULTIPLEXERS—MICROWAVE

ANDERS ASSOCIATES INC NASHUA NH	603-885-4321
ADV PG 279	
Ardron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
Arnold Microwave Inc E Syracuse NY	315-432-8909
Applied Research Inc Plainville NY	516-349-9200
Astronautics Corp of America Milwaukee WI	414-447-8200
Arden Electronics Communications	
Holtville NY	516-289-6200
Arden Electronics Div Gen Signal Corp	
Woodbury NY	516-921-7300
Arden Microwave Co Edinburg VA	703-984-8848
Atta Microwave Inc Camarillo CA	805-987-6892
Arden Corp Microwave Prods Div	
Sunnyvale CA	408-730-6300
Arma-F Corp Torrance CA	213-539-6704
International Microwave Corp Stamford CT	203-323-5599
Arkar Electronics Inc San Francisco CA	415-552-1247
W Engineering Inc San Diego CA	619-571-8444
Ark Engineering Co Inc	
San Juan Capistrano CA	714-493-9501
Arat TerraCom San Diego CA	619-278-4100
Arch Electronics Corp Englewood NJ	201-569-8282
1/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
Marlee Switch Co Upland CA	714-982-8988
Letropole Products Inc Stafford VA	703-659-2132
Microwave Development Labs Inc Natick MA	617-655-0060
Ne Narda Microwave Corp Hauppauge NY	516-231-1700
North Hills Electronics Inc Glen Cove NY	516-671-5700
Remier Microwave Corp Port Chester NY	914-939-8900
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
YTI Industries Santa Clara CA	408-727-5700
Anderson Laboratories Inc Natick MA	617-653-0844
Anders Associates Inc Nashua NH	603-885-4321
Arthurs Electronics Corp Farmingdale NY	516-420-9000
Teledyne Microelectronics Los Angeles CA	213-870-9831

or addresses, phones & sales offices, see green pages

FIBER OPTIC MULTIPLEXERS & MODEMS

- RS 232
- IBM 327X
- MIL 188C
- MIL 188.114
- V.21
- V.35
- RS 449
- T1
- TEMPEST
- TEMPEST

ODS

OPTICAL DATA SYSTEMS

1226 Exchange Drive
Richardson, Texas 75081
(214) 234-6400

Teledyne Microwave Mtn View CA	415-968-2211
Telonic/Berkeley Laguna Beach CA	714-494-9401
Transco Products Inc Camarillo CA	805-987-2201
UTE Microwave Inc Asbury Park NJ	201-922-1009
Victor Microwave Inc Wakefield MA	617-245-4472
Welch Allyn Inc Industrial Div	
Skaneateles Falls NY	315-685-8395
Wincom Corp Woburn MA	617-935-6212

MULTIPLEXERS—RADIO

Applied Research Inc Plainville NY	516-349-9200
Astronautics Corp of America Milwaukee WI	414-447-8200
Aydin Vector Div Newtown PA	215-968-4271
Blonder-Tongue Labs Inc Old Bridge NJ	201-679-4000
Cardion Electronics Communications	
Holtville NY	516-289-6200
Cardion Electronics Div Gen Signal Corp	
Woodbury NY	516-921-7300
Cetec Antennas Div Cetec Corp	
Sacramento CA	916-383-1177
Dielectric Commun Unit General Signal	
Raymond ME	207-655-4555
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Local TerraCom San Diego CA	619-278-4100
Lorch Electronics Corp Englewood NJ	201-569-8282
Marlee Switch Co Upland CA	714-982-8988
Moseley Associates Inc Goleta CA	805-968-9621
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
North Hills Electronics Inc Glen Cove NY	516-671-5700
Premier Microwave Corp Port Chester NY	914-939-8900
RCA Government Systems Div Cherry Hill NJ	609-338-3000
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
Teledyne Microelectronics Los Angeles CA	213-870-9831

MULTIPLEXERS—WIRELINE CONCENTRATORS

AEG CORPORATION SOMERVILLE NJ	201-722-9800
SOLID STATE ELECTRONICS CORP	
NORTH RIDGE CA	818-993-8257
AEG Corporation Somerville NJ	201-722-9800
Astronautics Corp of America Milwaukee WI	414-447-8200
Cardion Electronics Communications	
Holtville NY	516-289-6200
ComData Corp Morton Grove IL	312-470-9600
Data-Control Systems A CompuDyne Co	
Rockville MD	301-279-8798
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Electromatic Controls Corp	
Hoffman Estates IL	312-882-5757

Ericsson Communications Garden Grove CA	714-895-3962
Interface Engineering Inc Stoughton MA	617-344-7383
Marlee Switch Co Upland CA	714-982-8988
Matrix Corp Indianapolis IN	317-248-2036
Micro Systems Inc Simi Valley CA	805-583-8600
Microperipheral Corp Redmond WA	206-881-7544
Moseley Associates Inc Goleta CA	805-968-9621
Phalo Corp Optical Systems Div	
Simi Valley CA	805-522-3333
SAS Systems Inc Norcross GA	404-448-4190
Solid State Electronics Corp Northridge CA	818-993-8257
Sonex Corp Philadelphia PA	215-533-4900
Timeplex Inc Woodcliff Lake NJ	201-391-1111
Veristron Div Keene Corp Washington DC	202-722-8600
Webb Co Jervis B Farmington Hills MI	313-553-1220

MULTIPLIER TUBES

See Tubes

MULTIPLIER—ANALOG AMPLIFIER

See Amplifiers—Analog Module;
Amplifiers—Operational

MULTIPLIERS—ANALOG (EXCEPT AMPLIFIER TYPES)

See Also Amplifiers, Analog Module—Nonlinear;
Amplifiers—Operational

CLARKE-HESS COMMUNICATIONS RESEARCH	
NEW YORK NY	212-255-2940
Action Instruments Inc San Diego CA	619-279-5726
Analog Devices Inc Norwood MA	617-329-4700
Applied Research Inc Plainville NY	516-349-9200
Bailey Controls Co Wickliffe OH	216-585-8500
Burr-Brown Corp Tucson AZ	602-746-1111
Calex Mfg Co Inc Pleasant Hill CA	415-932-3911
Clarke-Hess Communications Research	
New York NY	212-255-2940
Datawest Corp Scottsdale AZ	602-948-3280
Fischer & Porter Co Warminster PA	215-674-6000
General Magnetics Inc Bloomfield NJ	201-743-2700
Industrial Control Co Rockledge FL	305-259-7105
Intronics Inc Newton MA	617-964-4000
Micro Power Systems Santa Clara CA	408-727-5350
Optical Electronics Inc Tucson AZ	602-624-8358
Precision Digital Corp Watertown MA	617-924-2256
Sonex Corp Philadelphia PA	215-533-4900
Techtron Cyclometrics Inc	
New Cumberland PA	717-774-2746
Teledyne Microelectronics Los Angeles CA	213-870-9831
Yokogawa Corp Of America Shenandoah GA	404-253-7000

MULTIPLIERS—FREQUENCY

See Frequency Doublers & Amplifiers; Microwave
Frequency Multipliers

MULTIPLIERS—VOLTAGE

MURATA ERIE NORTH AMERICA INC	
SMYRNA GA	404-436-1300
PHILIPS ECG INC WALTHAM MA	617-890-6107
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY	914-699-9717
VOLTAGE MULTIPLIERS INC VISALIA CA	209-651-1402
ADV PG 387	
American Plasticraft Co Chicago IL	312-722-7727
Analog Devices Inc Norwood MA	617-329-4700
Colimer Semiconductor Inc Dallas TX	214-233-1589
Conditioning Semiconductor Devices Corp	
Wayne NJ	201-335-6723
Electrical Instrument Service Inc	
Mt Vernon NY	914-699-9717
Murata ERIE North America Inc Smyrna GA	404-436-1300
Philips ECG Inc Waltham MA	617-890-6107
Reich Associates Inc Plano TX	214-424-7904
Sensitive Research Instruments Mt Vernon NY	914-699-9717
Teledyne Microelectronics Los Angeles CA	213-870-9831
Varo Inc Power Systems Div Garland TX	214-480-5000
Varo Semiconductor Inc Garland TX	214-487-4300
Valexon Santa Clara CA	408-727-7370
Voltage Multipliers Inc Visalia CA	209-651-1402
Zenith Electronics Corp Rauland Div	
Melrose Park IL	312-345-4700

MULTIVIBRATORS

See Delays—Multivibrator; ICs Listings

NAMEPLATES—MECHANICAL ATTACH

ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
KEPRO CIRCUIT SYSTEMS INC	
FENTON MO	314-343-1630
Acromark Co Inc The Berkeley Heights NJ	201-464-6474
Apahouser-Elcom Inc Watertown MA	617-924-1505
Bell Co Inc Trussville AL	205-655-2135
Berg Inc Winfred M East Rockaway NY	516-599-5010
Best Mfg Co Montrose CO	303-249-BEST
Brue Plastic Inc Pittsburgh PA	412-787-2100
Communications Equipment Co Inc	
Glen Arbor MI	616-334-3081

For ADVERTISERS' CATALOGS see Directory of Catalogs (white pages)

Datatron Labs Inc Sussex NJ.....	914-856-4313
Devco Engineering Inc Fairfield NJ.....	201-228-0321
Electronic Equipment Co Ltd Hempstead NY.....	516-538-5510
Hallmark Nameplate Inc Farmingdale NY.....	800-645-9502
JRW Industries Inc Harrisburg PA.....	717-236-1416
Kepron Circuit Systems Inc Fenton MO.....	314-343-1630
LaFrance Corp Philadelphia PA.....	215-365-8000
Laminated Fabricators San Bruno CA.....	415-583-5092
Mantex Corp Oxford MI.....	313-628-9711
Metaphoto Div Horizons Rsch Inc	
Cleveland OH.....	216-475-0555
National Band & Tag Co Newport KY.....	606-261-2035
Neal Feay Co Goleta CA.....	805-967-4521
Panelgraphic Corp West Caldwell NJ.....	201-227-1500
Precision Crafts Inc La Crescenta CA.....	213-248-3211
Seton Name Plate Corp New Haven CT.....	203-488-0085
Strandberg Engineering Labs Inc	
Greensboro NC.....	919-274-3775
Unifab Inc Hampstead NH.....	603-329-8205

NAMEPLATES—PRESSURE SENSITIVE

INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA.....	818-991-9614
KEPRO CIRCUIT SYSTEMS INC	
FENTON MO.....	314-343-1630
PANELTEC INC SANTA CLARA CA.....	408-496-1175
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
Acromark Co Inc The Berkeley Heights NJ.....	204-664-6474
Adhesives Research Inc Glen Rock PA.....	717-235-7979
Apahouser-Elcom Inc Watertown MA.....	617-924-6512
Bell Co Inc Trussville AL.....	205-655-2135
Berg Inc Winfred M East Rockaway NY.....	516-599-5010
Best Mfg Co Montrose CO.....	303-249-BEST
Brady Co W H Industrial Prods Div	
Milwaukee WI.....	414-351-6630
Bruce Plastics Inc Pittsburgh PA.....	412-787-2100
Canrad-Hanovia Inc Newark NJ.....	201-589-4300
Datatron Labs Inc Sussex NJ.....	914-856-4313
Dennison Mfg Co Fastener Div	
Framingham MA.....	617-879-0511
Devco Engineering Inc Fairfield NJ.....	201-228-0321
Drake Industries Inc Austin TX.....	512-251-2231
Eastprint Inc Andover MA.....	617-475-8960
Electronic Trend Products Cupertino CA.....	408-996-7401
Hallmark Nameplate Inc Farmingdale NY.....	800-645-9502
Harva Co Inc Schoharie NY.....	518-295-8101
International Instrumentation Inc	
Westlake Village CA.....	818-991-9614
JRW Industries Inc Harrisburg PA.....	717-236-1416
Kepron Circuit Systems Inc Fenton MO.....	314-343-1630
LaFrance Corp Philadelphia PA.....	215-365-8000
Markem Corp Keene NH.....	603-352-1130
Metaphoto Div Horizons Rsch Inc	
Cleveland OH.....	216-475-0555
Neal Feay Co Goleta CA.....	805-967-4521
Oklahoma Aeronautics Inc Hartshorne OK.....	918-297-2566
Optifab Inc Phoenix AZ.....	602-271-0921
Paneltec Inc Santa Clara CA.....	408-496-1175
Precision Crafts Inc La Crescenta CA.....	213-248-3211
Seton Name Plate Corp New Haven CT.....	203-488-0085
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Topflight Corp York PA.....	717-843-9901
Uarco Inc Barrington IL.....	312-381-7000
Unifab Inc Hampstead NH.....	603-329-8205

NAVIGATION EQUIPMENT

See Reference Lists of Avionics Equipment or Marine Equipment

NAVIGATION SYSTEMS—SHIP (AUTOMATIC)

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
ENVIROMARINE SYSTEMS INC	
LAUREL MD.....	301-598-8833
AEG Corporation Somerville NJ.....	201-722-9800
American Hydromath Co Pawlet VT.....	802-325-3003
AMETEK Straza Div El Cajon CA.....	619-442-3451
Bell Aerospace Textron Div Buffalo NY.....	716-297-1000
Cardion Electronics Div Gen Signal Corp	
Woodbury NY.....	516-921-7300
Comdel Inc Beverly MA.....	617-927-3144
Dewey Electronics Corp Oakland NJ.....	201-337-4700
Edo Corp/Western Div Salt Lake City UT.....	801-486-7481
Electrac Inc Anaheim CA.....	714-879-6021
Enviro Marine Systems Inc Laurel MD.....	301-598-8833
Furuno USA Inc So San Francisco CA.....	415-873-9393
Intech Inc Santa Clara CA.....	408-727-0500
Learn Siegler Inc Instrument Div	
Grand Rapids MI.....	616-241-7000
Lifton Industries Guidance & Controls Sys Div	
Woodland Hills CA.....	818-715-4040
Ocean Technology Inc Burbank CA.....	213-849-7111
Sonatech Inc Goleta CA.....	805-683-1431
Sperry Corp Aerospace & Marine Group	
Phoenix AZ.....	602-869-2311
Tracor Inc Austin TX.....	512-929-2051
Watson Industries Inc Eau Claire WI.....	715-839-0628

NEEDLES—PHONOGRAPH, CUTTING OR PLAYBACK

See Phonograph Needles

NETWORK ANALYZERS

See Analyzers

NETWORKS—ANTENNA PHASING

See Microwave Phased Array Beam Steering

Networks—Phasing

NETWORKS—CAPACITOR

See Capacitor Networks

NETWORKS—CROSSOVER

DALE ELECTRONICS INC EL PASO DIV	
EL PASO TX.....	915-592-3253
ELECTRONIC PRECISION COMPONENTS CORP	
MT VERNON NY.....	914-664-2333
FREQUENCY SELECTIVE NETWORKS INC	
WOODSIDE NY.....	718-424-7500
HISONIC INC OLATHE KS.....	913-782-0012
MG ELECTRONICS HAUPPAUGE NY.....	516-582-3400
RCD COMPONENTS INC	
MANCHESTER NH.....	603-669-0054
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
T T E INC LOS ANGELES CA.....	213-478-8224
ADV PG 185	
Bishop Electronics Corp Pico Rivera CA.....	213-695-0446
Communication Coil Co Chicago IL.....	312-637-1333
Dale Electronics Inc El Paso Div El Paso TX.....	915-592-3253
Electronic Precision Components Corp	
Mt Vernon NY.....	914-664-2333
Electro-Voice Inc Sub Gulton Industries	
Buckingham MI.....	616-695-6831
El-Rad Mfg Co Chicago IL.....	312-478-7300
Ercona Corp Port Jefferson Sta NY.....	516-331-5500
Frazier Inc Dallas TX.....	214-241-3441
Frequency Selective Networks Inc	
Woodside NY.....	718-424-7500
Gamble Industries, Charles T Delanco NJ.....	609-461-1900
GC Electronics Div Household Intl	
Rockford IL.....	815-968-9661
Hartley Products Corp Ramsey NJ.....	201-327-4443
Hisonic Inc Olathe KS.....	913-782-0012
Magnetic Component Engineering Inc	
Culver City CA.....	213-398-4761
MG Electronics Hauppauge NY.....	516-582-3400
Mills Resistor Co Los Alamitos CA.....	213-598-2454
RCD Components Inc Manchester NH.....	603-669-0054
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Smallwood Ltd S G Kitchener ON.....	519-894-2280
Speco Div Components Specialties Inc	
Lindenhurst NY.....	516-957-8700
T T E Inc Los Angeles CA.....	213-478-8224
Ultronix Inc Grand Junction CO.....	303-242-0810

NETWORKS—MATCHING

DALE ELECTRONICS INC EL PASO DIV	
EL PASO TX.....	915-592-3253
ELECTRONIC PRECISION COMPONENTS CORP	
MT VERNON NY.....	914-664-2333
ESC ELECTRONICS CORP	
PALISADES PARK NJ.....	201-947-0400
FREQUENCY SELECTIVE NETWORKS INC	
WOODSIDE NY.....	718-424-7500
HISONIC INC OLATHE KS.....	913-782-0012
RCD COMPONENTS INC	
MANCHESTER NH.....	603-669-0054
T T E INC LOS ANGELES CA.....	213-478-8224
ADV PG 000	
Bel-Tronics Corp Addison IL.....	312-543-7777
B G Electronics Inc Mount Vernon NY.....	914-664-5591
Bourns Inc Resistive Components Group	
Riverside CA.....	714-781-5050
Caddock Electronics Inc Riverside CA.....	714-788-1700
Centroid Inc Syoset NY.....	516-822-4770
Circuit Technology Inc Farmingdale NY.....	516-293-8686
Continental Electronics Div Varian Assoc	
Dallas TX.....	214-381-7161
Dale Electronics Inc El Paso Div El Paso TX.....	915-592-3253
Daven Components Grp Armtec Indus Inc	
Manchester NH.....	603-669-0940
Elcom Systems Inc Boca Raton FL.....	305-994-1774
Electronic Precision Components Corp	
Mt Vernon NY.....	914-664-2333
ESC Electronics Corp Palisades Park NJ.....	201-947-0400
F-Dyne Electronics Co Bridgeport CT.....	203-367-6431
Frequency Selective Networks Inc	
Woodside NY.....	718-424-7500
Gamble Industries, Charles T Delanco NJ.....	609-461-1900
Hisonic Inc Olathe KS.....	913-782-0012
KDI Electronics Inc Whippany NJ.....	201-887-8100
Kelvin Van Nuys CA.....	818-782-6662
Magnetic Component Engineering Inc	
Culver City CA.....	213-398-4761
Mills Resistor Co Los Alamitos CA.....	213-598-2454
Mini-Systems Inc No Attleboro MA.....	617-695-0203
Morris Enterprises Inc Sepulveda CA.....	213-894-9103
Mu-Del Electronics Inc Silver Spring MD.....	301-587-6087
Omega Industries Inc Newport Beach CA.....	714-642-8313
RCD Components Inc Manchester NH.....	603-669-0054
Schaffner EMC Inc Instrument Div Union NJ.....	201-851-0644
Sprague Electric Co Lexington MA.....	617-862-5500
TRW Resistive Products Div Philadelphia PA.....	215-922-8900
T T E Inc Los Angeles CA.....	213-478-8224
Ultronix Inc Grand Junction CO.....	303-242-0810

NETWORKS—PHASING

See Also Microwave Phased-Array Beam Steering

Networks

DALE ELECTRONICS INC EL PASO DIV	
EL PASO TX.....	915-592-3253
ELECTRONIC PRECISION COMPONENTS CORP	
MT VERNON NY.....	914-664-2333
ESC ELECTRONICS CORP	
PALISADES PARK NJ.....	201-947-0400
FREQUENCY SELECTIVE NETWORKS INC	
WOODSIDE NY.....	718-424-7500
HISONIC INC OLATHE KS.....	913-782-0012
SANDERS ASSOCIATES INC NASHUA NH.....	603-885-4333
T T E INC LOS ANGELES CA.....	213-478-8224
ADV PG 185	
Arctronic Instrument Co Inc Sidney NY.....	607-563-8444
Continental Electronics Div Varian Assoc	
Dallas TX.....	214-381-7161
Dale Electronics Inc El Paso Div El Paso TX.....	915-592-3253
Electronic Precision Components Corp	
Mt Vernon NY.....	914-664-2333
ESC Electronics Corp Palisades Park NJ.....	201-947-0400
Frequency Selective Networks Inc	
Woodside NY.....	718-424-7500
Hisonic Inc Olathe KS.....	913-782-0012
Kelvin Van Nuys CA.....	818-782-6662
Magnetic Component Engineering Inc	
Culver City CA.....	213-398-4761
Oletron Corp Webster MA.....	617-943-7474
Sanders Associates Inc Nashua NH.....	603-885-4333
TRW Resistive Products Div Philadelphia PA.....	215-922-8900
T T E Inc Los Angeles CA.....	213-478-8224

NETWORKS—RESISTOR

See Resistor Networks

NETWORKS—RESISTOR-CAPACITOR

ACC ELECTRONICS AN ECHLIN CO	
INDEPENDENCE KS.....	316-331-1000
ALMO ELECTRONICS INC	
PHILADELPHIA PA.....	215-698-4000
ADV PG Green Pages	
ALPS ELECTRIC (USA) INC	
ROCKVILLE CENTRE NY.....	516-766-3636
ADV PG 111	
DALE ELECTRONICS INC EL PASO DIV	
EL PASO TX.....	915-592-3253
DEL ELECTRONICS CORP	
MT VERNON NY.....	914-669-2000
ELECTRONIC PRECISION COMPONENTS CORP	
MT VERNON NY.....	914-664-2333
FREQUENCY SELECTIVE NETWORKS INC	
WOODSIDE NY.....	718-424-7500
HIPOTRONICS INC BREWSTER NY.....	914-279-8050
HYTEK MICROSYSTEMS INC	
LOS GATOS CA.....	408-395-2300
ADV PG 157	
IMB ELECTRONIC PRODUCTS INC	
SANTA FE SPRINGS CA.....	714-523-2111
ADV PG 70	
MURATA ERIE NORTH AMERICA INC	
SMYRNA GA.....	404-436-1300
NORTHWEST MICROCIRCUITS INC	
CORVALLIS OR.....	503-753-8244
RCD COMPONENTS INC	
MANCHESTER NH.....	603-669-0054
SAGER HINGHAM MA.....	617-749-6701
ADV PGS Green Pages/Footstrip	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
TDK CORP TOKYO JAPAN.....	03-278-5111
T T E INC LOS ANGELES CA.....	213-478-8224
ADV PG 185	
ACC Electronics an Echlin Co	
Independence KS.....	316-331-1000
Almo Electronics Inc Philadelphia PA.....	215-698-4000
Alps Electric (USA) Inc Rockville Centre NY.....	516-766-3636
American Microsignal Corp Stanton CA.....	714-761-1122
American Plasticraft Co Chicago IL.....	312-722-7762
Argent Industries Inc Englewood OH.....	513-836-8673
Axel Electronics Inc Jamaica NY.....	718-291-3990
Bishop Electronics Corp Pico Rivera CA.....	213-695-0444
Bypac Inc Chicago IL.....	312-561-4970
Centralab Inc A North American Philips Co	
West Lafayette IN.....	317-463-2530
Corning Glass Works, Corning Elctns/Components	
Corning NY.....	607-974-9000
CTS Corp Elkhart IN.....	219-293-7501
Custom Electronics Inc Oneonta NY.....	607-432-3880
Dale Electronics Inc El Paso Div El Paso TX.....	915-592-3253
Daven Components Grp Armtec Indus Inc	
Manchester NH.....	603-669-0940
Del Electronics Corp Mt Vernon NY.....	914-669-2000
Electronic Precision Components Corp	
Mt Vernon NY.....	914-664-2333
Electro Scientific Industries Inc Portland OR.....	503-641-4134
Eltec Instruments Inc Daytona Beach FL.....	904-253-5320
Engineered Components Co	
San Luis Obispo CA.....	805-544-3860
Epitex Electronics Inc Ogdensburg NY.....	613-592-2224
F-Dyne Electronics Co Bridgeport CT.....	203-367-6444
Fi-Co Co Inc Garden City NY.....	516-294-5444
Frequency Selective Networks Inc	
Woodside NY.....	718-424-7500
Gamble Industries, Charles T Delanco NJ.....	609-461-1900
Hipotonics Inc Brewster NY.....	914-279-8050
Hybrid Systems Corp Billerica MA.....	617-667-8700
Hytek Microsystems Inc Los Gatos CA.....	408-395-2300
IMB Electronic Products Inc	
Santa Fe Springs CA.....	714-523-2111
Industrial/Midwest Capacitor Corp	
Rolling Meadows IL.....	312-577-0102

Research Labs Inc New York NY	212-245-2727
Van Nuys CA	818-782-6662
Int'l Inc Elctn Comps Group	
San Diego CA	619-454-1800
Magnetic Component Engineering Inc	
Culver City CA	213-398-4761
Maxwell Labs Inc San Diego CA	619-279-5100
Elmsner Industries Dover NJ	201-366-1700
epco/Centralab Inc Jupiter FL	305-842-3201
Resistor Co Los Alamitos CA	213-598-2454
Yagawa USA Corp Torrance CA	213-534-4985
Oris Enterprises Inc Sepulveda CA	213-894-9103
urate Erie North America Inc Smyrna GA	404-436-1300
ational Micronetics Inc Semi-Films Div	
West Hurley NY	914-338-7714
orthwest Microcircuits Inc Corvallis OR	503-753-8242
hmek Inc Niagara Falls NY	716-283-4025
anasonic Co Electronic Components Div	
Secaucus NJ	201-348-5200
araplegics Mfg Co Inc Bensenville IL	312-625-7740
otofabrication Technology Inc Derry NH	603-432-1200
eh Electronics Industries Inc Niles IL	312-647-8338
CD Components Inc Manchester NH	603-669-0054
ta Inc Greenwich CT	203-625-7300
ager Hingham MA	617-749-6700
izuki America Inc Canoga Park CA	818-710-8555
okai Far East Ltd Hartsdale NY	914-681-0700
uthern Electronics Co Burbank CA	818-845-2458
rague Electric Co Lexington MA	617-862-5500
ate of the Art Inc State College PA	814-355-8004
etron International Inc Buffalo NY	716-854-3443
DK Corp Tokyo Japan	930-278-5111
ledyne Microelectronics Los Angeles CA	213-870-9831
nickfilm Int'l Indian Head MD	301-375-8666
be Deutschmann Labs Inc Canton MA	617-828-3366
T E Inc Los Angeles CA	213-478-8224
ctoren Inc Cleveland OH	216-795-8200

NICKEL

See Metals

NICKEL-CADMIUM BATTERIES

See Batteries

NIOBUM

See Metals; Wire—Bare

NITRIDES

omergic Chemetals Corp Plainview NY	516-349-8800
trac Inc Milwaukee WI	414-289-9800
ontronics Corp Brooklyn NY	718-646-7996
uramic Products Inc Palisades Park NJ	201-947-8313
diode Corp Framingham MA	617-879-0880
aterials Research Corp Orangeburg	914-359-4200
ode Metals & Minerals Corp Rumson NJ	201-842-2294
ho Engineered Materials Co	
Niagara Falls NY	716-278-2000
nthatron Corp Parsippany NJ	201-335-5000

NITROGEN

See Gases

NOISE INSTRUMENTS

See Analyzers; Generators; Meters; Test Sets

NUCLEAR ANALYSIS EQUIPMENT

aird Corp Bedford MA	617-276-6000
anberra Industries Inc Meriden CT	203-238-2351
ardwell Condenser Corp Lindenhurst NY	516-957-7200
3 & G Ortec Oak Ridge TN	615-482-4411
aman Instrumentation Corp	
Colorado Springs CO	303-599-1825
idium Measurements Inc Sweetwater TX	915-235-5494
uclear Enterprises Ltd Beenhaim Reading	0734-712121
uter-Stokes Inc Twinsburg OH	216-425-3755
IL Electronics Inc Warrington PA	215-343-5075
re Nucleus Inc Oak Ridge TN	615-483-0008

NUCLEAR EQUIPMENT

See Accelerators

Chambers

Counters

Dosimeters

Leak Detectors

Monitors

Radioactive Sources

Radiographic Equipment

Shielding

Tubes—Counter

NULL AMPLIFIERS

See Amplifiers, Instrumentation & Control—Null

or addresses, phones & sales offices, see green pages

NULL INDICATORS & METERS

See Indicators, General Purpose—Null

NUMERICAL CONTROLS

See Computers—Digital; Controls—Machine

Tool; Programmers

NUTS

See Bolts & Nuts

NYLON

See Fibers; Plastics

OCEANOGRAPHIC EQUIPMENT

See Type of Equipment Desired

(Communications; Depth Sounders; Recorders;

Sonar; Etc.)

OHMMETERS—DIGITAL READOUT

DCI INC OLATHE KS	913-782-5672
ADV PG 270	
HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Anasco Corp Wakefield MA	617-246-3300
Associated Research Inc Skokie IL	312-647-7850
Azonix Corp Burlington MA	617-273-5550
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Biddle Instruments-Sensitek Blue Bell PA	215-646-9200
B & K Precision Products Dynascan Corp	
Chicago IL	312-889-9087
Colorado Data Systems Inc Englewood CO	800-237-2831
Data Precision Div Analogic Danvers MA	617-246-1600
DCI Inc Olathe KS	913-782-5672
DigiTec Dayton OH	513-254-6251
Doric Scientific Div Emerson Elec Co	
San Diego CA	619-565-4415
E I L Instruments Inc Sparks MD	301-771-4800
Electro Scientific Industries Inc Portland OR	503-641-4141
Epoch Enterprises Ltd Tucson AZ	602-887-1970
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Guidline Instruments Inc Orlando FL	305-423-8215
Hameg Inc Port Washington NY	516-883-3837
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
Hunter Products Inc Bridgewater NJ	201-526-8440
Keithley Instruments Inc Cleveland OH	216-248-0400
NES Inc Carpentersville IL	312-426-5900
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953
North American Soar Corp Cherry Hill NJ	609-488-1060
Omega Engineering Inc Stamford CT	203-359-1660
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Sager Hingham MA	617-749-6700
Sencore Inc Sioux Falls SD	605-339-0100
Slaughter Co Ardmore OK	405-223-4773
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
Sycon-Weston Div Sycon Corp Marion OH	614-382-5771
Tektronix Inc Beaverton OR	800-547-6711
Tetxet Instruments Inc Fairview Village PA	215-539-6050
Tucker Electronics Co Garland TX	214-348-8800
Valhalla Scientific Inc San Diego CA	619-457-5576
Viz Test Equip Div Viz Mfg Co	
Philadelphia PA	215-844-2626

OHMMETERS—METER READOUT

DCI INC OLATHE KS	913-782-5672
ADV PG 270	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Anasco Corp Wakefield MA	617-246-3300
Associated Research Inc Skokie IL	312-647-7850
Bartlett Instrument Co Fort Madison IA	319-372-8366
Biddle Instruments-Sensitek Blue Bell PA	215-646-9200
B & K Precision Products Dynascan Corp	
Chicago IL	312-889-9087
Caltemp Instrument Inc Escondido CA	714-743-2800
Commonwealth Engineering Montreal PQ	514-744-1004
DCI Inc Olathe KS	913-782-5672
E I L Instruments Inc Sparks MD	301-771-4800
Electro Scientific Industries Inc Portland OR	503-641-4141
Freed Transformer Co Inc Ridgewood NY	718-386-1300
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Martindale Electric Co Cleveland OH	216-521-8567

NES Inc Carpentersville IL	312-426-5900
Omega Engineering Inc Stamford CT	203-359-1660
Peschel Instruments Inc Cape Coral FL	813-574-3164
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Q V S Inc East Orange NJ	201-673-3996
Rutherford Research Co Rutherford NJ	201-933-2091
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Slaughter Electric Co Elgin IL	312-697-2260
Slaughter Co Ardmore OK	405-223-4773
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
Sticht Co Inc Herman H New York NY	212-732-8163
Triplet Corp/A Penril Div Bluffton OH	419-358-5015
Tucker Electronics Co Garland TX	214-348-8800
Universal Enterprises Inc Portland OR	503-644-8723

OHMMETERS—PANEL

See Panel Meters

OILS

See Dielectrics—Liquid; Lubricants; Transformer

Oil

OMEGA EQUIPMENT

See Receivers—Radio Navigation;

Transmitters—Radio Navigation

OPERATIONAL AMPLIFIERS

See Amplifiers, Analog Module;

Amplifiers—Operational; ICs Listings

OPTICAL ANALYZER

Anasco Corp Wakefield MA	617-246-3300
Anritsu America Inc Oakland NJ	201-337-1111
Barnes Engineering Co Stamford CT	203-348-5381
CELCO (Constantine Engineering Labs Co)	
Mahwah NJ	201-327-1123
EG & G Gamma Scientific Inc San Diego CA	619-279-8034
Gaertner Scientific Corp Chicago IL	312-281-5335
Integrated Photomatrix Inc Mountainside NJ	201-233-6010
Intelco West Acton MA	617-264-4485
ITT Barton Instruments Co	
City of Industry CA	818-961-2547
Nikon Inc Instrument Group Garden City NY	516-222-0200
Photodyne Inc Newbury Park CA	818-889-8770
Simco/Ramic Corp Medford OR	503-776-9800
Spectra-Physics Inc Mountain View CA	415-961-2550

OPTICAL BENCHES

Barry Controls Unit Barry Wright Corp	
Watertown MA	617-923-1150
Davidson Optonics Inc West Covina CA	818-962-5181
Ealing Corp South Natick MA	617-655-7000
Infrared Industries Inc Detector Div	
Orlando FL	305-282-7700
Klinger Scientific Corp Richmond Hill NY	718-846-3700
Melles Griot Irvine CA	714-556-8200
Physitex Corp Norfolk MA	617-528-4100
Pure Aire Corp Canoga Pk CA	818-998-3876

OPTICAL COLLIMATORS

See Collimators

OPTICAL COMPARATORS

HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
Applied Image Inc Rochester NY	716-482-0300
Bishop Graphics Inc Westlake Village CA	818-991-2600
Gaertner Scientific Corp Chicago IL	312-281-5335
Gordon Enterprises Inc North Hollywood CA	818-985-5500
Hunter Products Inc Bridgewater NJ	201-526-8440
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Metron Optics Inc Solana Beach CA	619-755-4477
Nikon Inc Instrument Group Garden City NY	516-222-0200
Photodyne Inc Newbury Park CA	818-889-8770
Rank Precision Industries Inc Des Plaines IL	312-297-7720
Spatial Data Systems Inc Melbourne FL	305-729-8346
Stockert & Yale Inc Beverly MA	617-927-3940

OPTICAL CRYSTALS (EXCEPT QUARTZ)

Atomergic Chemetals Corp Plainview NY	516-349-8800
Crystal Systems Inc Salem MA	617-745-0088
Crystal Technology Inc Palo Alto CA	415-856-7911
Deltronic Tech Industries Dover NJ	201-361-2222
The Foxboro Co Foxboro MA	617-543-8750
General Diode Corp Framingham MA	617-879-0880
General Ruby & Sapphire Corp	
New Port Richey FL	813-849-0638
Meller Co Adolf Providence RI	401-331-3717
Pennsylvania Optical Unit BMC Indus Inc	
Reading PA	215-376-5701
Savoy Electronics Inc Ft Lauderdale FL	305-563-1333
Valley Design Corp Littleton MA	617-486-8933

OPTICAL FIBERS

See Fiber Optics Listings

OPTICAL FILTERS (EXCEPT INFRARED)

LIBERTY MIRROR DIV/LOF GLASS	
BRACKENRIDGE PA.	412-224-1800
ADV PG 297	
AGEMA Infrared Systems Secaucus NJ	201-867-5390
Balzers Optical Group Marlborough MA	617-481-9860
Buhl Optical Pittsburgh PA	412-321-0076
Chomerics Inc Woburn MA	617-935-4850
Coherent Inc Palo Alto CA	415-493-2111
Corning Glass Works Tech Prods Div	
Corning NY	607-974-9000
Dell Optics Co Inc North Bergen NJ	201-869-7300
Ditric Optics Inc Hudson MA	617-562-9373
Ealing Corp South Natick MA	617-655-7000
Eastman Kodak Co Rochester NY	716-724-4000
Ednalite Corp Peekskill NY	914-737-4100
Ercona Corp Port Jefferson Sta NY	516-331-5500
Esco Products Oak Ridge NJ	201-697-3700
Gaertner Scientific Corp Chicago IL	312-281-5335
General Ruby & Sapphire Corp	
New Port Richey FL	813-849-0638
Gordon Enterprises Inc North Hollywood CA	818-985-5500
Homalite Inc Wilmington DE	302-652-3686
Infrared Industries Inc Detector Div	
Orlando FL	305-282-7700
Infrared Industries Inc-Instruments Div	
Santa Barbara CA	805-684-4181
Kratos Analytical Ramsey NJ	201-934-9000
Laser Optics Inc Danbury CT	203-744-4160
Liberty Mirror Div/LOF Glass	
Brackenridge PA	412-224-1800
Melles Griot Irvine CA	714-556-8200
Metavac Inc Flushing NY	718-445-0400
Nikon Inc Instrument Group Garden City NY	516-222-0200
OAI Santa Clara CA	408-988-6900
Olympus Corp Lake Success NY	516-488-3880
Optical Coating Lab Inc Santa Rosa CA	707-545-6440
Optical Devices Inc Camarillo CA	805-987-8801
Optifab Inc Phoenix AZ	602-271-0921
Pacific Optical Div Recon Optical Inc	
Torrance CA	213-328-5840
Panelgraphic Corp West Caldwell NJ	201-227-1500
Pennsylvania Optical Unit BMC Indus Inc	
Reading PA	215-376-5701
Physitec Corp Norfolk MA	617-528-4100
Polaroid Corp Cambridge MA	617-577-2000
Pomfret Research Optics Inc Orange VA	703-894-4350
Recon/Optical Inc Barrington IL	312-381-2400
Zenith Optical Laboratory Dobbs Ferry NY	914-693-3377

OPTICAL INFRARED COMPONENTS

See Infrared Listings

OPTICAL INTERFEROMETERS

Ball Aerospace Systems Div Boulder CO	303-939-4000
Coherent Inc Palo Alto CA	415-493-2111
Davidson Optonics Inc West Covina CA	818-962-5181
Ealing Corp South Natick MA	617-655-7000
Gaertner Scientific Corp Chicago IL	312-281-5335
Hacker Instruments Inc Fairfield NJ	201-226-8450
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Klinger Scientific Corp Richmond Hill NY	718-846-3700
Photodyne Inc Newbury Park CA	818-889-8770
Physitec Corp Norfolk MA	617-528-4100
Spectra-Physics Inc Mountain View CA	415-961-2550

OPTICAL LENSES & PRISMS—MOLDED GLASS (NOT GROUND)

SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Atlantic Optical Moulding Co Dudley MA	617-943-1746
Corning Glass Works Tech Prods Div	
Corning NY	607-974-9000
Dell Optics Co Inc North Bergen NJ	201-869-7300
Ditric Optics Inc Hudson MA	617-562-9373
Ealing Corp South Natick MA	617-655-7000
Ercona Corp Port Jefferson Sta NY	516-331-5500
Infrared Industries Inc Detector Div	
Orlando FL	305-282-7700
Melles Griot Irvine CA	714-556-8200
Optical Coating Lab Inc Santa Rosa CA	707-545-6440
Physitec Corp Norfolk MA	617-528-4100
Recon/Optical Inc Barrington IL	312-381-2400
Shokai Far East Ltd Hartsdale NY	914-681-0700
Carl Zeiss Inc Thornwood NY	914-747-1800

OPTICAL LENSES & PRISMS—PLASTIC

MICRO ELECTRONIC SYSTEMS INC	
BROOKFIELD CT	203-775-1440
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Ealing Corp South Natick MA	617-655-7000
Eastman Kodak Co Rochester NY	716-724-4000
Edroy Products Co Inc Nyack NY	914-358-6600
Ercona Corp Port Jefferson Sta NY	516-331-5500
Homalite Inc Wilmington DE	302-652-3686
Micro Electronic Systems Inc Brookfield CT	203-775-1440
Optical Coating Lab Inc Santa Rosa CA	707-545-6440
Optical Devices Inc Camarillo CA	805-987-8801
Polaroid Corp Cambridge MA	617-577-2000
Projectapix II New York NY	212-765-7869
Shokai Far East Ltd Hartsdale NY	914-681-0700

U S Precision Lens Inc Cincinnati OH	513-752-7000
Universal Photonics Inc Hicksville NY	516-935-4000

OPTICAL LENSES & PRISMS—PRECISION GROUND

CANON USA INC ELECTRONIC COMPONENTS DIV	
LAKE SUCCESS NY	516-488-6700
LIBERTY MIRROR DIV/LOF GLASS	
BRACKENRIDGE PA	412-224-1800
ADV PG 297	
Beam Precision Optics Inc North Billerica MA	617-667-8547
Buhl Optical Pittsburgh PA	412-321-0076
Canon USA Inc Electronic Components Div	
Lake Success NY	516-488-6700
Coherent Inc Palo Alto CA	415-493-2111
Davidson Optonics Inc West Covina CA	818-962-5181
Dell Optics Co Inc North Bergen NJ	201-869-7300
Ealing Corp South Natick MA	617-655-7000
Eastman Kodak Co Rochester NY	716-724-4000
Ednalite Corp Peekskill NY	914-737-4100
Elgin Precision Glass Inc Elgin IL	312-931-1200
Ercona Corp Port Jefferson Sta NY	516-331-5500
Esco Products Oak Ridge NJ	201-697-3700
Farrand Optical Co Inc Valhalla NY	914-428-6800
Gaertner Scientific Corp Chicago IL	312-281-5335
General Diode Corp Framingham MA	617-879-0880
Gordon Enterprises Inc North Hollywood CA	818-985-5500
Heraeus Amerisil Inc Sayreville NJ	201-254-2500
Infrared Industries Inc Detector Div	
Orlando FL	305-282-7700
Infrared Industries Inc-Instruments Div	
Santa Barbara CA	805-684-4181
Kratos Analytical Ramsey NJ	201-934-9000
Laser Optics Inc Danbury CT	203-744-4160
Lenox Instrument Co Inc Treviso PA	215-322-9990
Liberty Mirror Div/LOF Glass	
Brackenridge PA	412-224-1800
Meller Co Adolf Providence RI	401-331-3717
Melles Griot Irvine CA	714-556-8200
Olympus Corp Lake Success NY	516-488-3880
Optical Coating Lab Inc Santa Rosa CA	707-545-6440
Pacific Optical Div Recon Optical Inc	
Torrance CA	213-328-5840
Pennsylvania Optical Unit BMC Indus Inc	
Reading PA	215-376-5701
Physitec Corp Norfolk MA	617-528-4100
Recon/Optical Inc Barrington IL	312-381-2400
Savoy Electronics Inc Ft Lauderdale FL	305-563-1333
Servo Corp of America Hicksville NY	516-938-9700
Spectra-Physics Inc Mountain View CA	415-961-2550
Thermal American Fused Quartz Co	
Montville NJ	201-334-7770
U S Laser Corp Wyckoff NJ	201-848-9200
Universal Photonics Inc Hicksville NY	516-935-4000

Valley Design Corp Littleton MA	617-486-8933
Carl Zeiss Inc Thornwood NY	914-747-1800
Zenith Optical Laboratory Dobbs Ferry NY	914-693-3377

OPTICAL MODULATORS (EXCEPT CHOPPERS—LIGHT BEAM)

ANDERSEN LABORATORIES INC	
BLOOMFIELD CT	203-242-0761
BERKELEY NUCLEONICS CORP	
BERKELEY CA	415-527-1121
ADV PG 200	
Andersen Laboratories Inc Bloomfield CT	203-242-0761
Apollo Lasers Inc Chatsworth CA	213-709-1313
Berkeley Nucleonics Corp Berkeley CA	415-527-1121
Coherent Inc Palo Alto CA	415-493-2111
Crystal Technology Inc Palo Alto CA	415-856-7911
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Infrared Industries Inc Detector Div	
Orlando FL	305-282-7700
Instrument Research Co Santa Barbara CA	805-962-8333
Meller Co Adolf Providence RI	401-331-3717
Motorola Ceramic Products Albuquerque NM	505-822-8801
Optifab Inc Phoenix AZ	602-271-0921
Quantronix Corp Smithtown NY	516-273-6900

OPTICAL POWER METERS

See Meters—Power Level, Optical

OPTICAL REFLECTOMETERS

Anritsu America Inc Oakland NJ	201-337-1111
Ealing Corp South Natick MA	617-655-7000
EG & G Gamma Scientific Inc San Diego CA	619-279-8033
Labsphere Inc North Sutton NH	603-927-4261
Laser Precision Corp Utica NY	315-797-4443
Orionics Div Ametek Bozeman MT	406-586-8251
Photodyne Inc Newbury Park CA	818-889-8770
Siecor Corp Hickory NC	704-327-5000
Spectron Engineering Inc Denver CO	303-623-8998
Carl Zeiss Inc Thornwood NY	914-747-1800

OPTICAL SCANNERS (OSCILLATING LENS OR PRISM)

CANON USA INC ELECTRONIC COMPONENTS DIV	
LAKE SUCCESS NY	516-488-6700
Adcotech Corp Milpitas CA	408-943-9433
Aeroflex Labs Inc Plainview NY	516-694-6700
Aerojet Electro Systems Co Azusa CA	818-334-6211
Ball Aerospace Systems Div Boulder CO	303-939-4000
Canon USA Inc Electronic Components Div	
Lake Success NY	516-488-6700
Cognitronics Corp Stamford CT	203-327-5307
Coherent Inc Palo Alto CA	415-493-2111
Copal Electronics Co Ltd Tokyo Japan	03-503-3777
Dest Corp Milpitas CA	408-946-7101
Ealing Corp South Natick MA	617-655-7000
EG & G Gamma Scientific Inc San Diego CA	619-279-8033
Farrand Optical Co Inc Valhalla NY	914-428-6800
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Gaertner Scientific Corp Chicago IL	312-281-5335
General Scanning Inc Watertown MA	617-924-1010
Harris Corp Govt Sys Sector Melbourne FL	305-727-4000
Infrared Industries Inc Detector Div	
Orlando FL	305-282-7700
Infrared Industries Inc-Instruments Div	
Santa Barbara CA	805-684-4181
Metron Optics Inc Solana Beach CA	619-755-4477
Optrotech Inc Billerica MA	617-272-4050
Philamon Inc Farmingdale NY	516-249-2700
Scan-Graphics Inc Broomall PA	215-328-1040
True Data Corp Irvine CA	714-979-4842
Welch Allyn Inc Industrial Div	
Skaneateles Falls NY	315-685-8395

OPTICAL SCANNING SYSTEMS

See Computer Input Image Scanners; Laser

Ranging & Scanning Systems; Infrared

Systems—Scanning Microscopes

OPTICAL SPECTROMETERS

See Spectrometers

OPTICAL SWITCHES

See Switches—Optical

OPTICAL WAVEGUIDE (EXCEPT FIBER OPTICS)

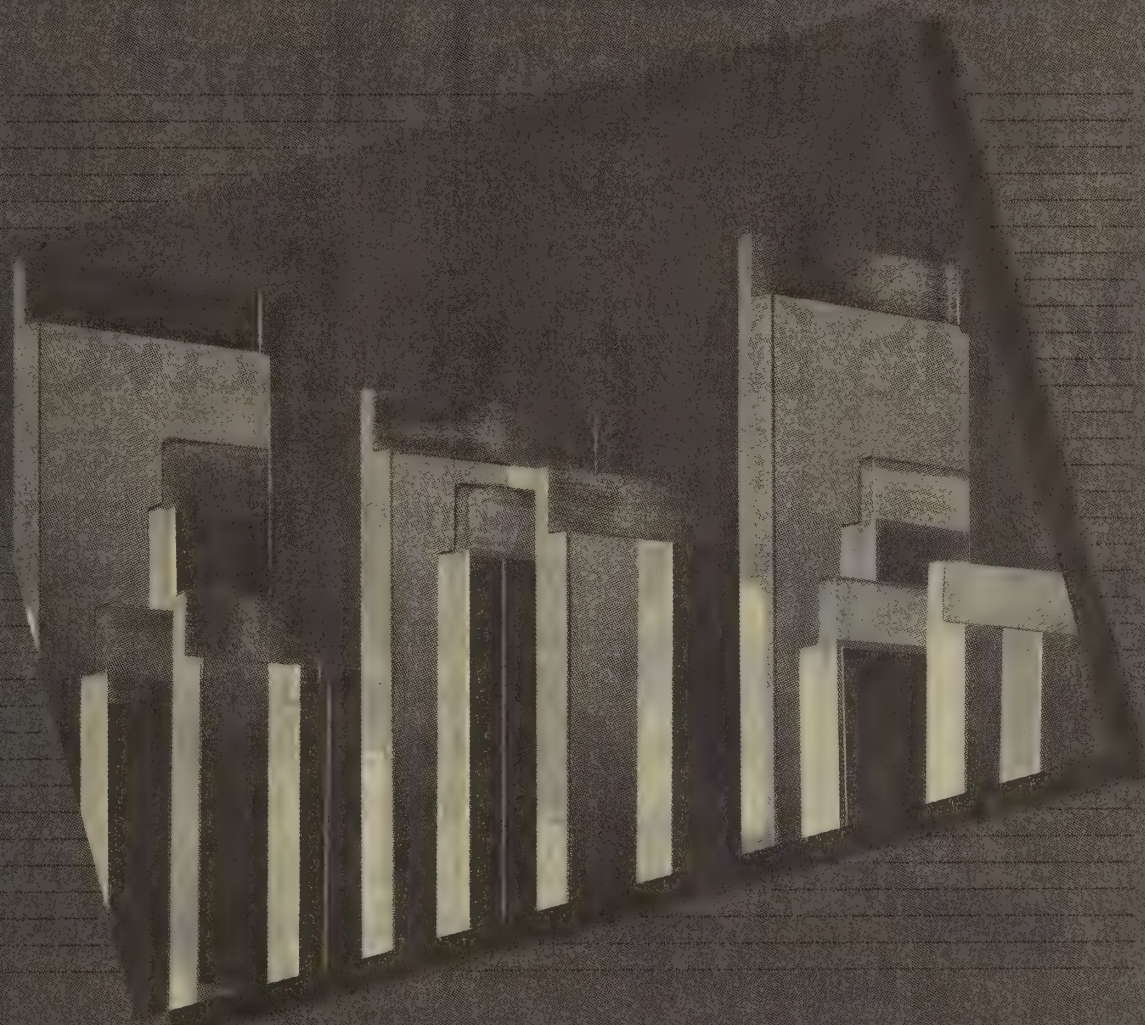
Waveline Inc West Caldwell NJ	201-226-9100
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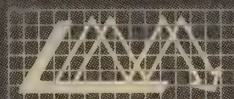


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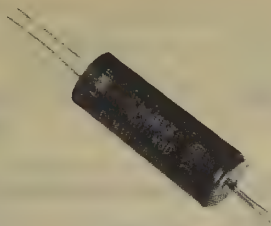
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Part No.	Package	R "ON" Ohms Max	10 SEC R "OFF" Ohms Min	Cell Volts PAC	Isol. Volts	Part No.	Package	R "ON" Ohms Max	10 SEC R "OFF" Ohms Min	Cell Volts PAC	Isol. Volts
CLM50	DIP	2.5K @ 16ma	1Meg	250	2500	CLM7200	TO-5	36K @ 2ma	10Meg	100	750
CLM51	DIP	4.5K @ 1ma	1Meg	250	2500	CLM8000	Axial	400 @ 40ma	500K	220	2500
CLM60	DIP	4K @ ± 16ma	1Meg	250	2500	CLM8200	Axial	2.8K @ 16ma	10Meg	220	2500
CLM61	DIP	7K @ ± 1ma	1Meg	250	2500	CLM8200/2	Axial	5.0K @ 16ma	10Meg	100	2500
CLM6000	Axial	500 @ 20ma	500K	60	2000	CLM8500	Axial	2.0K @ 16ma	10Meg	220	2000
CLM6200	Axial	10K @ 10ma	10Meg	60	2000	CLM8500/2	Axial	1.0K @ 16ma	1Meg	100	2000
CLM6500	Axial	400 @ 20ma	10Meg	100	2000	CLM8500HV	Axial	5K @ 16ma	10Meg	400	2000
CLM7000	TO-5	3.5K @ 2ma	5Meg	100	750	CLM8600	Axial	2K @ 16ma	10Meg	500	3000
CLM7100	TO-5	11K @ 2ma	10Meg	100	750	CLM9000	Axial	1.2Meg @ 16ma	1000Meg	3500	7000

PHOTOMOD® PHOTOCONDUCTIVE CELL — LAMP ISOLATORS

Part No.	Dia. Inch	Length Inch	R "ON" Ohms Max	@ Lamp Rated Voltage Volts	10 SEC R "OFF" Ohms Min	Cell Volts PAC	Isolation Voltage PAC
CLM3006A	.415	1.125	160	6	10 Meg	200	2500
CLM4006A	.415	1.125	55	6	1 Meg	200	2500
CLM3012A	.415	1.125	160	12	100 Meg	200	2500
CLM4012A	.415	1.125	30	12	1 Meg	200	2500
CLM5H10A	.415	1.125	3000	10	10 Meg	200	2500
CLM7H16A	.415	1.125	550	16	10 Meg	200	2500
CLM3120A	.415	1.125	1150	120 *	100 Meg	200	2500
CLM4120A	.415	1.125	160	120 *	1 Meg	200	2500
CLM3500	.420 X .445 X .620		160	120 *	1 Meg	250	1600
CLM3500/2	.420 X .445 X .620		500	120 *	1 Meg	120	1600
CLM3700	.420 X .445 X .620		1000	120 *	1 Meg	250	1600

PHOTOTRANSISTOR — PHOTODARLINGTON AXIAL ISOLATORS

Part No.	CTR — % Min	CTR — % Max	VCE @ Volts	If @ ma	Isolation Volts — DC	BVCEO	Id na	VCE @ Volts	Type
CLA 864	12.5		5	10	10,000	30	200	20	ired — PT
CLA 864A	25		5	10	10,000	30	200	20	ired — PT
CLA 864B	50	125	5	10	10,000	30	200	20	ired — PT
CLA 864C	100		5	10	10,000	30	200	20	ired — PT
CLA 813	50		2	5	10,000	15	100	10	ired — DAR
CLA 813A	200		10	10	10,000	40	100	10	ired — DAR
CLA 813B	400		10	10	10,000	40	100	10	ired — DAR

DIGITAL OUTPUT AXIAL ISOLATORS

Part No.	External Pull Up Resistor Required	If Threshold Current		Isolation Volts — DC	Output Stage		Logic Function	
		+	—		Open Collector	Internal Pull-Up	Buffer	Inverter
CLA 890	Yes	5 ma		10,000	✓		✓	
CLA 892	Yes		5 ma	10,000	✓			✓
CLA 894	No	5 ma		10,000		✓	✓	

*Units submitted for UL and VDE approval.

THE SURVIVOR® — HERMETICALLY SEALED COMPONENTS — AXIAL ISOLATOR

Part No.	C.T.R. VCE = 10V % Min	If ma	Isolation Volts PAC	BVCEO Ic = 1ma Volts	IcEO @ VCE = 10V na	Type of Units
CLA60	40	10	10,000	55	50	ired — PHOTOTRANSISTOR
CLA60AA	20	10	10,000	55	50	ired — PHOTOTRANSISTOR
CLA60AB	10	10	10,000	40	100	ired — PHOTOTRANSISTOR
CLA65	400	10	10,000	55	100	ired — PHOTO DARLINGTON
CLA65AA	200 @ VCE = 5V	10	10,000	40	100	ired — PHOTO DARLINGTON
CLA90	3.5 volts	1	10,000	—	4 volts	ired — PHOTO INTEGRATED CIRCUIT
CLA90AA	3.5 volts	5	10,000	—	4 volts	ired — PHOTO INTEGRATED CIRCUIT

U.L. RECOGNIZED COMPONENT

*Series resistor required.



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(201) 722-9800
TX: 833409

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Texas Instruments Optoelectronics Dallas TX	214-995-6611
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Canstar Communications Scarborough ON	416-293-9722
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DIV ANAHEIM CA	714-774-1010

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See Generators; Standards

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Daiwa Crystal Corp Overland Park KS	913-491-6825
Dale Electronics Inc Tempe Div Tempe AZ	602-967-7875
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FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Fox Electronics Ft Myers FL	813-482-7212
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Leach Corp Control Products Div	
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McCoy Electronics Co Mt Holly Springs PA	717-486-3411
M F Electronics Corp New Rochelle NY	914-576-6570
Microsonics Inc Weymouth MA	617-337-4200
Midland-Ross Corp NEL Unit Burlington WI	414-763-3591
Monitor Products Co Inc Oceanside CA	619-433-4510
Motorola Inc Component Products	
Franklin Park IL	312-451-1000
M-tron Industries Inc Yankton SD	605-665-9321
Oscillatek Div K & L Microwave Olathe KS	913-829-1777
Ovensaire Div Electronic Technologies Inc	
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Piezo Crystal Co Carlisle PA	717-249-2151
Piezo Technology Inc Orlando FL	305-298-2000
Pletronics Inc Seattle WA	206-523-9395
Q-Tech Corp Los Angeles CA	213-820-4921
Reeves-Hoffman Div Carlisle PA	717-243-5929
SaRonix Palo Alto CA	415-856-6900
Savoy Electronics Inc Ft Lauderdale FL	305-563-1333
Seiko Instruments USA Inc Torrance CA	213-530-8777
Shelley-Ragon Inc St Paul MN	612-542-2828
Sigmotek International Corp	
Walnut Creek CA	415-943-7411
Solid State Electronics Corp Northridge CA	818-993-8257
Spectrum Technology Inc Goleta CA	805-964-7791
Standard Crystal Corp El Monte CA	213-443-2121
Stetek Corp Orange CA	714-639-7810

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- Resistance-welded metal packages
- TTL or CMOS compatible
- Frequencies from 150 KHz to 65 MHz
- Stability from $\pm .005\%$ to $\pm 1\%$
- Popular frequencies in stock

Microprocessor Crystals

- Resistance weld or solder seal packages
- 1.000 MHz to 150.00 MHz
- Tolerances over temperatures (-20°C to $+70^{\circ}\text{C}$) from .001%
- Popular frequencies in stock

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CLOCK
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QUALITY

SERVICE

• TTL AND CMOS
COMPATIBLE

• FREQUENCY RANGE
1 MHz to 70 MHz

• FREQUENCY STABILITY
 ± 50 ppm to ± 100 ppm
STANDARD

- CUSTOM CAPABILITIES -
- STANDARDS IN STOCK -



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Clock Oscillators

TTL Models:	1 Hz to 100 MHz
CMOS Models:	1 Hz to 50 MHz
ECL Models:	5 MHz to 500 MHz
Sine Models:	1 KHz to 1000 MHz
Stability:	
Standard:	0/+ 70° C ± 25 ppm
Optional:	0/+ 50° C ± 3 ppm
Optional:	-55/+ 125° C ± 50 ppm



Low Noise Oven Types

Frequency:	<1 MHz to 400 MHz
Aging:	Models range from 1x10 ⁻⁶ /day to 1x10 ⁻¹⁰ /day
Temperature:	1x10 ⁻⁶ /°C to 1x10 ⁻¹⁰ /°C
Phase Noise:	As low as -160 dBc/Hz at 10 KHz

TCXOs



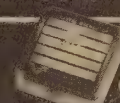
Stability:	0/+ 50° C: ± 1x10 ⁻⁷ -55/+ 85° C: ± 1x10 ⁻⁶
Aging:	1x10 ⁻⁶ /year
Sine Models:	1 MHz to 630 MHz
TTL Models:	50 Hz to 100 MHz
CMOS Models:	50 Hz to 10 MHz
ECL Models:	20 MHz to 280 MHz



VCXOs (Crystal Controlled)

For both linear low distortion
and phase lock applications

Frequency:	<1 MHz to 400 MHz
Deviation:	± 0.03% to ± 1%
Linearity:	to ± 1%



VCOs (Non-Crystal)

Frequency:	50 Hz to 500 MHz
Deviation:	± 10% (± 33% optional)
Linearity:	± 10% (± 1% optional)

From the world's largest and most respected
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CRYSTAL OSCILLATORS

STANDARD TTL, TRI-STATE,
HIGH-SPEED CMOS, ECL

- Frequency range: 250KHz to 70MHz
- Frequency tolerance: 25ppm to 1000ppm
- 100% tested
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ADV PG 148	
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ADV PG 306	
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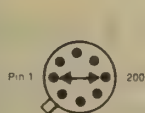
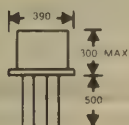
CRYSTAL CLOCK OSCILLATORS



TCXO's

- Crystal controlled thick film hybrid oscillators (XO's).
- Baud rate generators and microprocessor drivers.
- Screening per MIL-O-55310 and MIL-STD-883B is available.
- Temperature compensated crystal oscillators (TCXO's).
- Custom designed oscillators to meet your specifications.
- Standard frequencies are available from stock.

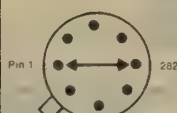
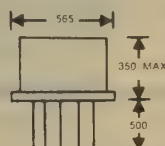
TO5



PIN 4=GND
PIN 5=OUT
PIN 8=VCC
REST=NC/ITP

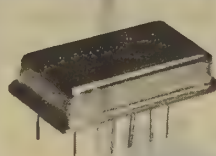
NOTE:
QPL'd to MIL-O-55310/09

TO8

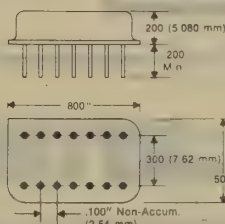


PIN 4=GND
PIN 5=OUT
PIN 8=VCC
REST=NC/ITP

DIP M80

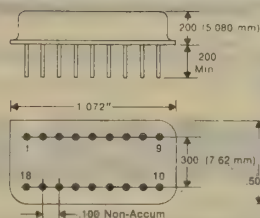
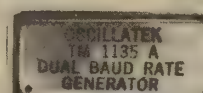


QPL'd to MIL-O-55310/16



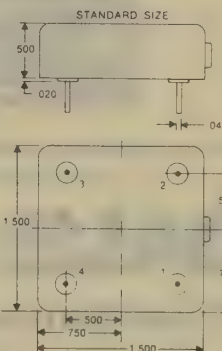
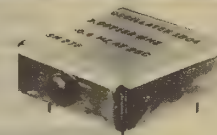
PIN 14=VCC
PIN 8=OUT
PIN 7=GND
REST=NC/ITP
M80=.80" Length

BAUD RATE GENERATORS



PIN FOR PIN
COMPATIBLE TO THE
STD. PARTS AVAIL-
ABLE IN THE MARKET
Request Brochure for
Details

TCXO



PIN 1=GND
PIN 2=VCC
PIN 3=OUT
PIN 4=N-C
Non Std. Pinouts and
Custom Designing is
Available

NOTE:
(1) Very low current CMOS output at low frequency and at high frequency is available specially at 5 Volts.

(2) Non-standard custom designing with multiple outputs, gated outputs, ECL outputs, very low frequency or very high frequency outputs is available. Consult factory.

TCXO's

STABILITY:

1. $\pm 1 \times 10^{-7}$ (0°C to 50°C)
2. $\pm 2 \times 10^{-7}$ (-20°C to 70°C)
3. $\pm 5 \times 10^{-7}$ (-40°C to 85°C)
4. $\pm 1 \times 10^{-6}$ (-55°C to 125°C)

VCXO's

STABILITY: $\pm .0001\%$ to $\pm .01\%$

LINEARITY: $\pm 1\%$ to $\pm 10\%$

DEVIATION: $\pm .001\%$ to $\pm .1\%$

XO's

STABILITY:

1. $\pm 5 \times 10^{-6}$ (0°C to 50°C)
2. $\pm 10 \times 10^{-6}$ (-20°C to 70°C)
3. $\pm 20 \times 10^{-6}$ (-40°C to 85°C)
4. $\pm 45 \times 10^{-6}$ (-55°C to 125°C)

FREQUENCY RANGE: TTL = <1 Hz to 125 MHz; CMOS = .01 Hz to 50 MHz
ECL = 1 MHz to 200 MHz; SINEWAVE = 100 KHz to 100 MHz

SUPPLY: 5V to 30V (Current as low as 1.5 mA available)

STANDARD SIZES: 1" x 1" x .26", 1.5" x 1.5" x .5", 2" x 1" x .5", 2" x 2" x .5"

IN ADDITION TO OUR STANDARD PRODUCT LINE WE OFFER CUSTOM DESIGN CAPABILITY.

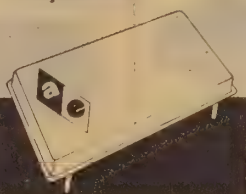
1 Hz to 50 MHz and Everything In-Between



You decide the frequency and we'll produce *Clock Oscillators* to your specifications. *Anything* between 1 Hz and 50 MHz. And, with Anderson "performance proved" clock oscillators you'll have peace-of-mind; with your product working just as designed the first time—every time!

Call today for the full story on Anderson Clock Oscillators. Better yet, tell us your specs and we'll make samples for your evaluation.

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- Complimentary Outputs
- Lapping and Non-Lapping Outputs.
- Resistance Welded
- Low Profile (.200" high)
- Extended Frequencies

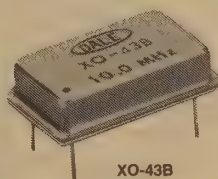


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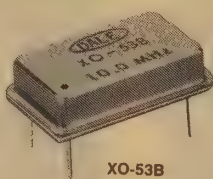
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DALE OSCILLATORS

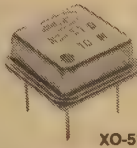
PC and Surface Mounted Styles—compatible with most logics



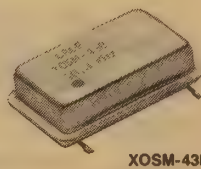
XO-43B



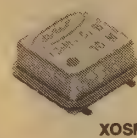
XO-53B



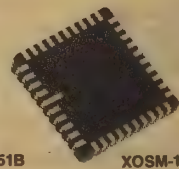
XO-51B



XOSM-43B



XOSM-51B



XOSM-13

- Choice of hermetically sealed metal packages or chip carrier styles
- Compact dimensions:
 - Metal = .500" W x .800" L x .225" seated height
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- Chip Carrier: .480" W x .480" L x .085H
- Compatible with HCMOS, CMOS, NMOS, TTL, LS-TTL, S-TTL

- Frequency ranges:
 - Metal = 240 Hz to 1.5 MHz
 - 4.0 MHz to 60 MHz
 - 250 KHz to 60 MHz
- Chip Carrier: 16 MHz to 24 MHz
- Accuracies: .005%, .01%, .05%, .1%, 1%
- Competitively priced
- Widely interchangeable with other manufacturers

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- QPL To MIL-0-55310
- $\pm .0015\%$ CALIBRATION ACCURACY
- HERMETICALLY SEALED METAL PACKAGE
- .200 SEATED HEIGHT
- LOW POWER CONSUMPTION
- WIDE FREQUENCY RANGE

- VARIETY OF STABILITIES
- MULTIPLE TEMPERATURE RANGE SELECTION
- TTL-CMOS-GATED SCHOTTKY-ECL
- CUSTOM PACKAGE CONSIDERATIONS
- DUAL IN-LINE SPACING
- CUSTOM ELECTRICAL PARAMETERS

**XSIS IS A QPL SOURCE FOR
MICROCIRCUIT CRYSTAL
OSCILLATORS TO MIL-0-
55310/8,/11,/14,/15,/16,/17,/18**

TYPICAL SPECIFICATIONS AVAILABLE

100 Series-TTL	200 Series-CMOS**
100Hz to 70MHz $\pm .0015\%$	Frequency Range Frequency @ + 25°C 250Hz to 10MHz $\pm .0015\%$

**Specify supply voltage when ordering

PACKAGE TYPE + PIN CONNECTIONS				STABILITIES AVAILABLE	TEMPERATURE RANGES
OPTION 'X'	OPTION 'E'	OPTION 'M'	OPTION 'T' (4 PIN)	P/N	P/N
PIN 7 GRD 8 Output 14 B +	PIN 4 B + 5 Output 7 GRD/Case	PIN 1 Output 2 Case 8 GRD	PIN 1 N/C 7 GRD 8 Output	1 $\pm .1\%$	1 0° to 70°C
1 thru 6 N/C	1,2,3,6 N/C	14 B +	14 B +	2 $\pm .05\%$	2 -30° to + 85°C
9 thru 13 N/C	8 thru 14 N/C	3 thru 7 N/C	2 thru 6 Missing	3 $\pm .01\%$	3 -55° to + 125°C
Same As M55310/16/18	Same As M55310/14	9 thru 13 N/C Same As M55310/8/11/15	9 thru 13 Missing	4 $\pm .005\%$	
				5 $\pm .0025\%$ not available with -55 to + 125°C	

PACKAGE DIMENSIONS	PART NUMBER ORDERING EXAMPLE
NOTE: T100 SERIES (4 PIN) HAS THE SAME DIMENSIONS.	X143 - 20.0 MHz 14 PIN with Option 'X' PINOUT TTL Compatible $\pm .005\%$ Stability -55° to + 125° c Temperature Range

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Telex: 437227

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TRW Microwave Sunnyvale CA	408-732-0880
United States Crystal Corp Fort Worth TX	817-921-3014
Valpey-Fisher Corp Hopkinton MA	617-435-6831
Vecron Labs Inc Norwalk CT	203-853-4433
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TEMPE AZ	602-967-7875
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WOODSIDE NY	718-424-7500
INDUCTIVE PRODUCTS INC	
GARDEN GROVE CA	714-891-2572
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SMYRNA GA	404-436-1300
OSCILLATEK DIV K&L MICROWAVE	
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VECTRON LABS INC NORWALK CT	
ADV PG 302	203-853-4433
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Damon/ Electronics Div Westwood MA	617-329-2460
Datum Inc Timing/ AACOM Divs Anaheim CA	714-533-6333
EG & G Cinox Cincinnati OH	513-542-5555
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Frequency Electronics Mitchel Field NY	516-794-4500
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Frequency Sources Sub Loral Corp	
Chelmsford MA	617-256-4113
FSI/ Fork Standards Inc Lombard IL	312-932-9380
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Hewlett-Packard Palo Alto CA	415-857-8000
Inductive Products Inc Garden Grove CA	714-891-2572
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Monitor Products Co Inc Oceanside CA	619-433-4510
Motorola Inc Component Products	
Franklin Park IL	312-451-1000
Murata Erie North America Inc Smyrna GA	404-436-1300
Oscillatek Div K & L Microwave Olathe KS	913-829-1777
Ovenaire Div Electronic Technologies Inc	
Charlottesville VA	804-977-8050
Piezo Crystal Co Carlisle PA	717-249-2151
Piezo Technology Inc Orlando FL	305-298-2000
Q-Tech Corp Los Angeles CA	213-820-4921
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Reeves-Hoffman Div Carlisle PA	717-243-5929
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Seiko Instruments USA Inc Torrance CA	213-530-8777
Spectrum Technology Inc Goleta CA	805-964-7791
Stetron International Inc Buffalo NY	716-854-3443
Techtrol Cyclomatics Inc	
New Cumberland PA	717-774-2746
Trak Microwave Corp Tampa FL	813-884-1411
Valpey-Fisher Corp Hopkinton MA	617-435-6831
Varian Electron Device Group Palo Alto CA	415-493-4000
Vecron Labs Inc Norwalk CT	203-853-4433
Wenzel Assoc Inc Austin TX	512-345-2703
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

OSCILLATORS, MODULES—CRYSTAL CONTROLLED, SUB-AUDIO

DALE ELECTRONICS INC TEMPE DIV	
TEMPE AZ	602-967-7875
ADV PG 304	
FREQUENCY SELECTIVE NETWORKS INC	
WOODSIDE NY	718-424-7500
INDUCTIVE PRODUCTS INC	
GARDEN GROVE CA	714-891-2572
ADV PG 301	
MURATA ERIE NORTH AMERICA INC	
SMYRNA GA	404-436-1300
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
VECTRON LABS INC NORWALK CT	
ADV PG 302	203-853-4433
American Microsignal Corp Stanton CA	714-761-1222
Connor-Winfield Corp West Chicago IL	312-231-5270
Dale Electronics Inc Tempe Div Tempe AZ	602-967-7875
EG & G Cinox Cincinnati OH	513-542-5555
Electronic Research Co Overland Park KS	913-631-6700
FCP Inc/ Frequency Cont Prods Woodside NY	718-458-5811



MICROWAVE CONTROL Co. div.

MICON INCORPORATED



- 20 KW Peak Solid State Amplifiers 300-450 MHz
- 1 - 1000 MHz 1000 W Solid State Amplifiers
- Pulse Amplifiers
- RF Amplifiers
- Medical Electronic Phase Stable RF Drivers
- 100 kw Oscillators
- Complete Systems

50 KW OSCILLATORS

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1105 INDUSTRIAL PARKWAY
BRICK, NEW JERSEY 08724

(201) 458-3000 Telex 642-651

Frequency & Time Systems Inc Beverly MA	617-927-8220
Frequency Selective Networks Inc	
Woodside NY	718-424-7500
FSI/ Fork Standards Inc Lombard IL	312-932-9380
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Inductive Products Inc Garden Grove CA	714-891-2572
Isotemp Research Inc Charlottesville VA	804-295-3101
Leach Corp Control Products Div	
Buena Park CA	714-739-0770
M/A-COM OSW Inc Tempe AZ	602-966-1471
Monitor Products Co Inc Oceanside CA	619-433-4510
Murata Erie North America Inc Smyrna GA	404-436-1300
NES Inc Carpentersville IL	312-426-5900
Piezo Crystal Co Carlisle PA	717-249-2151
Reeves-Hoffman Div Carlisle PA	717-243-5929
Solid State Electronics Corp Northridge CA	818-993-8257
Spectrum Technology Inc Goleta CA	805-964-7791
Stetron Corp Orange CA	714-639-7810
Stetron International Inc Buffalo NY	716-854-3443
Vecron Labs Inc Norwalk CT	203-853-4433

OSCILLATORS, MODULES—CRYSTAL CONTROLLED, TEMPERATURE COMPENSATED

AT&T COMPONENTS & ELECTRONIC SYSTEMS	
ALLEN TOWN PA	800-372-2447
BERKELEY NUCLEONICS CORP	
BERKELEY CA	415-527-1121
FREQUENCY SELECTIVE NETWORKS INC	
WOODSIDE NY	718-424-7500
INDUCTIVE PRODUCTS INC	
GARDEN GROVE CA	714-891-2572
ADV PG 301	
KVG FORT LAUDERDALE FL	
ADV PG 148	305-771-3201
M F ELECTRONICS CORP	
NEW ROCHELLE NY	914-576-6570
ADV PG 307	
MURATA ERIE NORTH AMERICA INC	
SMYRNA GA	404-436-1300
OSCILLATEK DIV K&L MICROWAVE	
OLATHE KS	913-829-1777
ADV PG 303	
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
VECTRON LABS INC NORWALK CT	
ADV PG 302	203-853-4433
AT & T Components & Electronic Systems	
Allen town PA	800-372-2447
Berkeley Nucleonics Corp Berkeley CA	415-527-1121
Bliley Electric Co Erie PA	814-838-3571
Comstron Corp Freeport NY	516-546-9700
Connor-Winfield Corp West Chicago IL	312-231-5270

Crystek Corp Ft Myers FL	813-936-2101
CTS Corp Elkhart IN	219-293-7511
CTS Knights Inc Sandwich IL	815-786-8411
Daiwa Crystal Corp Overland Park KS	913-491-6821
Damon/ Electronics Div Westwood MA	617-329-2460
EG & G Cinox Cincinnati OH	513-542-5555
Electronic Research Co Overland Park KS	913-631-6700
FCP Inc/ Frequency Cont Prods Woodside NY	718-458-5811
Frequency & Time Systems Inc Beverly MA	617-927-8220
Frequency Electronics Mitchel Field NY	516-794-4500
Frequency Selective Networks Inc	
Woodside NY	718-424-7500
Frequency Sources Sub Loral Corp	
Chelmsford MA	617-256-4113
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Hughes Aircraft Co Microelectronic Circuits Div	
Newport Beach CA	714-759-2411
Inductive Products Inc Garden Grove CA	714-891-2572
Isotemp Research Inc Charlottesville VA	804-295-3101
K & L Quartztek Phoenix AZ	602-272-7941
KDI Electronics Inc Whippany NJ	201-887-8100
KVG Fort Lauderdale FL	305-771-3201
Leach Corp Control Products Div	
Buena Park CA	714-739-0770
M/A-COM OSW Inc Tempe AZ	602-966-1471
McCoy Electronics Co Mt Holly Springs PA	717-486-3411
M F Electronics Corp New Rochelle NY	914-576-6570
Microsonics Inc Weymouth MA	617-337-4200
Monitor Products Co Inc Oceanside CA	619-433-4510
Motorola Inc Component Products	
Franklin Park IL	312-451-1000
Murata Erie North America Inc Smyrna GA	404-436-1300
Oscillatek Div K & L Microwave Olathe KS	913-829-1777
Ovenaire Div Electronic Technologies Inc	
Charlottesville VA	804-977-8050
Piezo Crystal Co Carlisle PA	717-249-2151
Piezo Technology Inc Orlando FL	305-298-2000
Q-Tech Corp Los Angeles CA	213-820-4921
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Sigmotek International Corp	
Walnut Creek CA	415-943-7411
Solid State Electronics Corp Northridge CA	818-993-8257
Spectrum Technology Inc Goleta CA	805-964-7791
Standard Crystal Corp El Monte CA	213-443-2121
Stetron International Inc Buffalo NY	716-854-3443
T-F Electronics Inc Austin TX	512-836-7321
Trak Microwave Corp Tampa FL	813-884-1411
TRW Microwave Sunnyvale CA	408-732-0880
Valpey-Fisher Corp Hopkinton MA	617-435-6831
Vecron Labs Inc Norwalk CT	203-853-4433
Wenzel Assoc Inc Austin TX	512-345-2703
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

OSCILLATORS, MODULES—SOLID-STATE, AUDIO & SUB-AUDIO

FREQUENCY SELECTIVE NETWORKS INC	
WOODSIDE NY	718-424-7500
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
VECTRON LABS INC NORWALK CT	
ADV PG 302	203-853-4433
American Microsignal Corp Stanton CA	714-761-1222
Betatronics Inc Lincolnwood IL	312-676-1741
Connor-Winfield Corp West Chicago IL	312-231-5270
FCP Inc/ Frequency Cont Prods Woodside NY	718-458-5811
Frequency Devices Inc Haverhill MA	617-374-0761
Frequency Selective Networks Inc	
Woodside NY	718-424-7500
FSI/ Fork Standards Inc Lombard IL	312-932-9380
General Magnetics Inc Bloomfield NJ	201-743-2070
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Industrial Test Equipment Powertron	
Port Washington NY	516-883-1070
Isotemp Research Inc Charlottesville VA	804-295-3101
Leach Corp Control Products Div	
Buena Park CA	714-739-0770
M/A-COM OSW Inc Tempe AZ	602-966-1471
Piezo Crystal Co Carlisle PA	717-249-2151
Protech Audio Corp St James NY	516-584-5855
Q-Tech Corp Los Angeles CA	213-820-4921
Reeves-Hoffman Div Carlisle PA	717-243-5929
Solid State Electronics Corp Northridge CA	818-993-8257
Stetron Corp Orange CA	714-639-7810
Vecron Labs Inc Norwalk CT	203-853-4433
White Technology Inc Phoenix AZ	602-437-1521

OSCILLATORS, MODULES—SOLID-STATE, R-F (EXCEPT MICROWAVE DIODE)

ANDERSON LABORATORIES INC	
BLOOMFIELD CT	203-242-0761
BERKELEY NUCLEONICS CORP	
BERKELEY CA	415-527-1121
KVG FORT LAUDERDALE FL	
ADV PG 148	305-771-3201
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
ADV PG 306	
SANDERS ASSOCIATES INC NASHUA NH	
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
VECTRON LABS INC NORWALK CT	
ADV PG 302	203-853-4433
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Anderson Laboratories Inc Bloomfield CT	203-242-0761

Applied Research Inc Plainview NY	516-349-9200
Avantek Inc Santa Clara CA	408-496-6710
Erkeley Nucleonics Corp Berkeley CA	415-527-1121
Illey Electric Co Erie PA	814-838-3571
Omstron Corp Freeport NY	516-546-9700
Omron-Winfield Corp West Chicago IL	312-231-5270
Omron/Eltronics Div Westwood MA	617-329-2460
Electronics Surveillance Components Inc	
Palo Alto CA	415-494-7803
CP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Frequency Sources Sub Loral Corp	
Chelmsford MA	617-256-4113
SI/Fork Standards Inc Lombard IL	312-932-9380
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Arri Corp Govt Support Sys Div	
Syosset NY	516-364-0400
otemp Research Inc Charlottesville VA	804-295-3101
& L Quartztek Phoenix AZ	602-272-7945
VG Fort Lauderdale FL	305-771-3201
each Corp Control Products Div	
Buena Park CA	714-739-0770
/A-COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000
/A-COM OSW Inc Tempe AZ	602-966-1471
Melsey Corp Carle Place NY	516-333-0655
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Midland-Ross Corp NEL Unit Burlington WI	414-763-3591
ITEQ Inc Hauppauge NY	516-543-8873
otrola Inc Component Products	
Franklin Park IL	312-451-1000
he Narda Microwave Corp Hauppauge NY	516-231-1700
venaire Div Electronic Technologies Inc	
Charlottesville VA	804-977-8050
jezo Crystal Co Carlisle PA	717-249-2151
lessey Semiconductors Irvine CA	714-951-5212
eeves-Hoffman Div Carlisle PA	717-243-5929
ohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
anders Associates Inc Nashua NH	603-885-4321
awtek Inc Orlando FL	305-886-8860
olid State Electronics Corp Northridge CA	818-993-8257
schtr Cyclometrics Inc	
New Cumberland PA	717-774-2746
ledyne Microelectronics Los Angeles CA	213-870-9831
F Electronics Inc Austin TX	512-836-7323
ak Microwave Corp Tampa FL	813-884-1411
TRW Microwave Sunnyvale CA	408-732-0880
ectron Labs Inc Norwalk CT	203-853-4433
enzel Assoc Inc Austin TX	512-345-2703
eta Labs Inc Sub CCT Santa Clara CA	408-727-6001

OSCILLATORS, MODULES—TUNING FORK, CERAMIC TYPE

allantine Laboratories Inc Boonton NJ	201-335-0900
CP Inc/Frequency Cont Prods Woodside NY	718-458-5811
/A-COM OSW Inc Tempe AZ	602-966-1471
F Electronics Inc Austin TX	512-836-7323
ko America Inc Mt Prospect IL	312-297-0070

OSCILLATORS, MODULES—TUNING FORK CONTROLLED (EXCEPT CERAMIC)

T COMPONENTS DIV SANTA ANA CA	714-836-0351
ADV PG 302	
CP Inc/Frequency Cont Prods Woodside NY	718-458-5811
T Components Div Santa Ana CA	714-836-0351
/A-COM OSW Inc Tempe AZ	602-966-1471
Idland-Ross Corp NEL Unit Burlington WI	414-763-3591
hillamson Inc Farmingdale NY	516-249-2700
ohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
aRonix Palo Alto CA	415-856-8900
andard Crystal Corp El Monte CA	213-443-2121
iatek Corp Orange CA	714-639-7810

OSCILLATORS—RF (CIRCUITS, EXCEPT MODULES & FOLLOWING TYPES LISTED)

NDERSEN LABORATORIES INC	
Bloomfield CT	203-242-0761
ALE ELECTRONICS INC TEMPE DIV	
TEMPE AZ	602-967-7875
ADV PG 304	
REQUENCY SELECTIVE NETWORKS INC	
WOODSIDE NY	718-424-7500
dams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
ndersen Laboratories Inc Bloomfield CT	203-242-0761
ustron Inc Austin TX	512-251-2313
natron Inc Tustin CA	714-669-9248
omstron Corp Freeport NY	516-546-9700
omron-Winfield Corp West Chicago IL	312-231-5270
ale Electronics Inc Tempe Div Tempe AZ	602-967-7875
3 & G Cinex Cincinnati OH	513-542-5555
ectro Dynamics Div SFE Technologies	
Overland Park KS	913-888-1750
electronics Surveillance Components Inc	
Palo Alto CA	415-494-7803
CP Inc/Frequency Cont Prods Woodside NY	718-458-5811
requency Selective Networks Inc	
Woodside NY	718-424-7500
requency Sources Sub Loral Corp	
Chelmsford MA	617-256-4113
SI/Fork Standards Inc Lombard IL	312-932-9380

Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Hewlett-Packard Palo Alto CA	415-857-8000
Isotemp Research Inc Charlottesville VA	804-295-3101
KDI Electronics Inc Whippany NJ	201-887-8100
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM OSW Inc Tempe AZ	602-966-1471
MCL Inc La Grange IL	312-354-4350
Mitsumi Electronics Corp Melville NY	516-752-7730
Oklahoma Aerotronics Inc Hartshorne OK	918-297-2566
Q-Tech Corp Los Angeles CA	213-820-4921
Reeves-Hoffman Div Carlisle PA	717-243-5929
Spectrum Technology Inc Goleta CA	805-964-7791
Toko America Inc Mt Prospect IL	312-297-0070
Trak Microwave Corp Tampa FL	813-884-1411
TRW Microwave Sunnyvale CA	408-732-0880
Tucker Electronics Co Garland TX	214-348-8800
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

OSCILLATORS—RF, MICROWAVE DIODE

MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
ADV PG 306	
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Alpha Industries Inc Woburn MA	617-935-5150
Amperex Electronic Corp Hicksville Div	
Hicksville NY	516-931-6200
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Frequency Sources Sub Loral Corp	
Chelmsford MA	617-256-4113
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Hewlett-Packard Palo Alto CA	415-857-8000
Honeywell Santa Barbara Microwave Ctr	
Santa Barbara CA	805-965-1013
Hughes Aircraft Co Microwave Prods Div	
Torrance CA	213-517-6400
International Microwave Corp Stamford CT	203-323-5599
KDI Electronics Inc Whippany NJ	201-887-8100
Leach Corp Control Products Div	
Buena Park CA	714-739-0770
Litton Electron Devices Div San Carlos CA	415-591-8411
M/A-COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA	617-272-3000
M/A-COM OSW Inc Tempe AZ	602-966-1471
Marconi Instruments Div Marconi Elctns Inc	
Allendale NJ	201-934-9050
Microwave Control Div Micon Inc Brick NJ	201-458-3000
The Narda Microwave Corp Hauppauge NY	516-231-1700
Premier Microwave Corp Port Chester NY	914-939-8900
Sanders Associates Inc Nashua NH	603-885-4321
Technol Cyclometrics Inc	
New Cumberland PA	717-774-2746
Teleadyne Microwave Mtn View CA	415-968-2211
Trak Microwave Corp Tampa FL	813-884-1411
TRW Microwave Sunnyvale CA	408-732-0880
Varian Electron Device Group Palo Alto CA	415-493-4000
Watkins-Johnson Co Palo Alto CA	415-493-4141
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

OSCILLATORS—RF, MICROWAVE TUBE

MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
ADV PG 306	
Epsco Inc Westwood MA	617-329-1500
Litton Electron Devices Div San Carlos CA	415-591-8411
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
M/A-COM OSW Inc Tempe AZ	602-966-1471
MCL Inc La Grange IL	312-354-4350
Melsey Corp Carle Place NY	516-333-0655
Microwave Control Div Micon Inc Brick NJ	201-458-3000
M-O Valve Co Ltd London England	01-603-3431
The Narda Microwave Corp Hauppauge NY	516-231-1700
NEC America Inc Melville NY	516-753-7000
Polarad Electronics Inc Lake Success NY	516-328-1100
RFD Inc Tampa FL	813-872-1502
Trak Microwave Corp Tampa FL	813-884-1411
Tucker Electronics Co Garland TX	214-348-8800
Varian Electron Device Group Palo Alto CA	415-493-4000
Watkins-Johnson Co Palo Alto CA	415-493-4141

OSCILLATORS—RF, PULSED (EXCEPT MICROWAVE DIODE & MICROWAVE TUBE)

MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
ADV PG 306	
Connor-Winfield Corp West Chicago IL	312-231-5270
Epsco Inc Westwood MA	617-329-1500
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Frequency Sources Sub Loral Corp	
Chelmsford MA	617-256-4113
SI/Fork Standards Inc Lombard IL	312-932-9380
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Isotemp Research Inc Charlottesville VA	804-295-3101
KDI Electronics Inc Whippany NJ	201-887-8100

ME ELECTRONICS CORP. CRYSTAL OSCILLATORS

New

CRYSTAL OSCILLATOR
M1280-6MHZ

ME ELECTRONICS CORP.
08111 0985

- **Universal HCMOS Output Drives TTL and CMOS with low current (M1280/M1290 Series)** Available with ENABLE/DISABLE Feature for ATE Premium Economy and Reliability. Frequency Ranges from 250 KHz to 50 MHz. Stability Ranges from $\pm .0025\%$ to 1.0%.
- **2 in 1 Package (M1270 Series) Saves Board Space and Cost** Dual Unrelated Output TTL Frequencies from 8 MHz to 35 MHz.
- **Phase Lock Loop Oscillator (M2010 Series)** Used to compare the generated stable frequency crystal output against a reference, for multiplying frequency by fraction or making jitter-free clock.
- **Voltage Controlled Crystal Oscillator VCXO (M2000 Series)** At least an order of magnitude more stable than conventional IC-RC controlled types. Frequency ranges from 8 MHz to 32.768 MHz. Used in phase lock loops.
- **45/55 Symmetry, TTL Logic (A1768 Series)** Reliable Crystal Clock for Commercial Applications. Frequency Ranges from 250 KHz to 50 MHz.
- **ECL Single/Complementary Output (M1400 Series)** 10 to 125 MHz, 10,000 ECL Output. Stability Range $\pm .0025\%$ to 1.0%.
- **TTL Resistance-Weld All Metal Commercial Pkg. (M1200 Series)** Frequency Ranges from 20 KHz to 100 MHz. Stability Ranges from $\pm .0025\%$ to $\pm 1.0\%$.
- **Extended Temperature Range Crystal Clocks (M1256/M1258)** Frequency Ranges from 20 KHz to 30 MHz. Stability and Temperature Ranges: $\pm .01\%$ -40 to +85°C. $\pm .0075\%$ -55 to +85°C.
- **Microprocessor Driver Single/Dual Outputs (M1260 Series)** For Z80A, 2800, MD3880, MK3886. Will Drive 200 pf. Auxiliary 2X and 4X Output Available.
- **TTL Crystal Clock for Commercial Applications (M1100 Series)** 250 KHz to 50 MHz, TTL Logic. Stability Ranges $\pm .0025\%$ to $\pm 1.0\%$.
- **CMOS Crystal Clock in All Metal Pkg. (M1252/M1251)** Low Current CMOS will drive up to 15 pf. 825 HZ to 10 MHz. Stability Ranges $\pm .01\%$ and $\pm .005\%$.
- **Very High/Low Temperature Ranges - 55 to 200°C. (M4000 Series)** For use in Harsh Environment and "DOWN HOLE" Applications, 1 MHz to 30 MHz. 8 Temperature and Stability Ranges.
- **Full Range Military Crystal Clock Oscillators (M5500 Series)** Full Screening, 250 KHz to 100 MHz Stability and Temperature Ranges: $\pm .005\%$, -55 to +85°C. $\pm .0075\%$, -55 to +125°C.

ME ELECTRONICS CORP.
10 Renewal Place
New Rochelle, NY 10801

Laboratory Products Inc Hyde Park MA	617-364-6260
M/A COM Microwave Circuits Inc Burlington MA	617-272-3000
M/A-COM Millimeter Products Inc Burlington MA	617-272-3000
MCL Inc La Grange IL	312-354-4350
Melsey Corp Carle Place NY	516-333-0655
Microwave Control Div Micon Inc Brick NJ	201-458-3000
The Narda Microwave Corp Hauppauge NY	516-231-1700
Piezo Crystal Co Carlisle PA	717-249-2151
RF Monolithics Inc Dallas TX	214-233-2903
Spectrum Technology Inc Goleta CA	805-964-7791
Trak Microwave Corp Tampa FL	813-884-1411
TRW Microwave Sunnyvale CA	408-732-0880
Tucker Electronics Co Garland TX	214-348-8800

OSCILLATORS—RF, STABLE LOCAL (EXCEPT MICROWAVE DIODE)

ANDERSEN LABORATORIES INC BLOOMFIELD CT	203-242-0761
DALE ELECTRONICS INC TEMPE DIV TEMPE AZ	602-967-7875
ADV PG 304	
VECTRON LABS INC NORWALK CT	203-853-4433
ADV PG 302	

Adams-Russell Co Inc Anzac Div Burlington MA	617-273-3333
Andersen Laboratories Inc Bloomfield CT	203-242-0761
Applied Research Inc Plainview NY	516-349-9200
Comstron Corp Freeport NY	516-546-9700
Connor-Winfield Corp West Chicago IL	312-231-5270
Dale Electronics Inc Tempe Div Tempe AZ	602-967-7875
Dewey Electronics Corp Oakland NJ	201-337-4700
EG & G Cinox Cincinnati OH	513-542-5555
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Frequency Sources Sub Loral Corp Chelmsford MA	617-256-4113
FSI/Fork Standards Inc Lombard IL	312-932-9380
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Isotemp Research Inc Charlottesville VA	804-295-3101
KDI Electronics Inc Whippany NJ	201-887-8100
M/A-COM Millimeter Products Inc Burlington MA	617-272-3000
M/A-COM OSW Inc Tempe AZ	602-966-1471
Melsey Corp Carle Place NY	516-333-0655
MITEQ Inc Hauppauge NY	516-543-8873
Motorola Inc Component Products Franklin Park IL	312-451-1000
The Narda Microwave Corp Hauppauge NY	516-231-1700
Piezo Crystal Co Carlisle PA	717-249-2151
Reeves-Hoffman Div Carlisle PA	717-243-5929
RFD Inc Tampa FL	813-872-1502
RF Monolithics Inc Dallas TX	214-233-2903
Sawtek Inc Orlando FL	305-886-8860
Techtrol Cyclometrics Inc New Cumberland PA	717-774-2746
Trak Microwave Corp Tampa FL	813-884-1411
TRW Microwave Sunnyvale CA	408-732-0880
Tucker Electronics Co Garland TX	214-348-8800
Varian Electron Device Group Palo Alto CA	415-493-4000
Vectron Labs Inc Norwalk CT	203-853-4433
Wenzel Assoc Inc Austin TX	512-345-2703
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

OSCILLATORS—RF, SUBCARRIER (INCL. TELEMETRY)

ANDERSEN LABORATORIES INC BLOOMFIELD CT	203-242-0761
INTERELECTRONICS CORP CONGERS NY	914-358-8000
SOLID STATE ELECTRONICS CORP NORTHBRIDGE CA	818-993-8257
Andersen Laboratories Inc Bloomfield CT	203-242-0761
Connor-Winfield Corp West Chicago IL	312-231-5270
Dewey Electronics Corp Oakland NJ	201-337-4700
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
FSI/Fork Standards Inc Lombard IL	312-932-9380
Inter Electronics Corp Congers NY	914-358-8000
Isotemp Research Inc Charlottesville VA	804-295-3101
KDI Electronics Inc Whippany NJ	201-887-8100
Loral Data Systems/Conic San Diego CA	619-279-0411
M/A COM Microwave Circuits Inc Burlington MA	617-272-3000
Reeves-Hoffman Div Carlisle PA	717-243-5929
Solid State Electronics Corp Northridge CA	818-993-8257
Spectrum Technology Inc Goleta CA	805-964-7791
Watkins-Johnson Co Palo Alto CA	415-493-4141

OSCILLATORS—TELEMETRY TONE (INCL. SIMILAR SIGNALING & CONTROL TYPES)

SOLID STATE ELECTRONICS CORP NORTHBRIDGE CA	818-993-8257
American Microsignal Corp Stanton CA	714-761-1222
Aydin Vector Div Newtown PA	215-968-4271
Betatronics Inc Lincolnwood IL	312-676-1747
Connor-Winfield Corp West Chicago IL	312-231-5270
Data-Control Systems A CompuDyne Co Rockville MD	301-279-8798
Fairchild Weston Systems Inc Sarasota FL	813-371-0811
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Frequency Devices Inc Haverhill MA	617-374-0761
FSI/Fork Standards Inc Lombard IL	312-932-9380
Loral Data Systems/Conic San Diego CA	619-279-0411
M/A-COM OSW Inc Tempe AZ	602-966-1471
Mitel Corp Semiconductor Div Kanata ON	613-592-5630

Paiomar Engineers Escondido CA	619-747-3343
Solid State Electronics Corp Northridge CA	818-993-8257
Sonex Corp Philadelphia PA	215-533-4900
Statek Corp Orange CA	714-639-7810

OSCILLATORS—TUNING FORK CONTROLLED (EXCEPT MODULES)

Daiwa Crystal Corp Overland Park KS	913-491-6825
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Kyocera Intl Inc Elctn Comps Group San Diego CA	619-454-1800
Midland-Ross Corp NEL Unit Burlington WI	414-763-3591
Philamon Inc Farmingdale NY	516-249-2700
Q-Tech Corp Los Angeles CA	213-820-4921
Sigmatok International Corp. Wainut Creek CA	415-943-7411
Standard Crystal Corp El Monte CA	213-443-2121
Statek Corp Orange CA	714-639-7810
T-F Electronics Inc Austin TX	512-836-7323

OSCILLATORS—ULTRASONIC

See Ultrasonic Equipment

OSCILLATORS—VOLTAGE CONTROLLED (EXCEPT CRYSTAL)

ANDERSEN LABORATORIES INC BLOOMFIELD CT	203-242-0761
CML MACARR DIV BROOKLYN NY	718-857-2400
MICROWAVE CONTROL DIV MICON INC BRICK NJ	201-458-3000
ADV PG 306	
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
SOLID STATE ELECTRONICS CORP NORTHBRIDGE CA	818-993-8257
VECTRON LABS INC NORWALK CT	203-853-4433
ADV PG 302	

Alpha Industries Inc Woburn MA	617-935-5150
Andersen Laboratories Inc Bloomfield CT	203-242-0761
Applied Research Inc Plainview NY	516-349-9200
Avantek Inc Santa Clara CA	408-496-6710
Aydin Vector Div Newtown PA	215-968-4271
Betatronics Inc Lincolnwood IL	312-676-1747
CML Macarr Div Brooklyn NY	718-857-2400
Comstron Corp Freeport NY	516-546-9700
Connor-Winfield Corp West Chicago IL	312-231-5270
Data-Control Systems A CompuDyne Co Rockville MD	301-279-8798
Eaton Corp Microwave Prods Div Sunnyvale CA	408-730-6300
Electrac Inc Anaheim CA	714-879-6021
Electronic Research Co Overland Park KS	913-631-6700
Electronics Surveillance Components Inc Palo Alto CA	415-494-7803
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Frequency Electronics Mitchell Field NY	516-794-4500
Frequency Sources Sub Loral Corp Chelmsford MA	617-256-4113
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Hughes Aircraft Co Microwave Prods Div Torrance CA	213-517-6400
Industrial Test Equipment Powertron Port Washington NY	516-883-1700
International Microwave Corp Stamford CT	203-323-5599
Julie Research Labs Inc New York NY	212-245-2727
Krohn-Hite Corp Avon MA	617-580-1660
Leach Corp Control Products Div Buena Park CA	714-739-0770
Litton Electron Devices Div San Carlos CA	415-591-8411
M/A COM Microwave Circuits Inc Burlington MA	617-272-3000
M/A-COM OSW Inc Tempe AZ	602-966-1471
Melsey Corp Carle Place NY	516-333-0655
Microsonics Inc Weymouth MA	617-337-4200
Microwave Control Div Micon Inc Brick NJ	201-458-3000
MITEQ Inc Hauppauge NY	516-543-8873
Motorola Inc Component Products Franklin Park IL	312-451-1000
The Narda Microwave Corp Hauppauge NY	516-231-1700
National Semiconductor Corp Santa Clara CA	408-721-5000
Novadyne Inc Fountain Valley CA	714-898-5370
Parko Electronics Co Inc Irvine CA	714-660-8014
Piezo Technology Inc Orlando FL	305-298-2000
Q-Tech Corp Los Angeles CA	213-820-4921
Reeves-Hoffman Div Carlisle PA	717-243-5929
Richard Lee Co New Providence NJ	201-276-0710
Sanders Associates Inc Nashua NH	603-885-4321
Scientific Communications Inc Garland TX	214-840-4900
Solid State Electronics Corp Northridge CA	818-993-8257
Sonex Corp Philadelphia PA	215-533-4900
Standard Crystal Corp El Monte CA	213-443-2121
Techtrol Cyclometrics Inc New Cumberland PA	717-774-2746
Tektron Micro Electronics Inc Linthicum Hts MD	301-850-4200
Teledyne Microwave Mtn View CA	415-968-2211
Texscan Corp Phoenix AZ	602-252-5021
Trak Microwave Corp Tampa FL	813-884-1411
Varian Electron Device Group Palo Alto CA	415-493-4000
Vari-L Co Inc Denver CO	303-371-1560
Vectron Labs Inc Norwalk CT	203-853-4433
Watkins-Johnson Co Palo Alto CA	415-493-4141
Wavetek San Diego Inc San Diego CA	619-279-2200
Wenzel Assoc Inc Austin TX	512-345-2703
White Technology Inc Phoenix AZ	602-437-1520
Wiltron Co Morgan Hill CA	408-778-2000
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

OSCILLATORS—VOLTAGE CONTROLLED, CRYSTAL

ANDERSEN LABORATORIES INC BLOOMFIELD CT	203-242-0761
AT&T COMPONENTS & ELECTRONIC SYSTEMS ALLEN TOWN PA	800-372-24
FREQUENCY SELECTIVE NETWORKS INC WOODSIDE NY	718-424-75
INDUCTIVE PRODUCTS INC GARDEN GROVE CA	714-891-25
ADV PG 301	
KVG FORT LAUDERDALE FL	305-771-1
ADV PG 148	
M F ELECTRONICS CORP NEW ROCHELLE NY	914-576-65
ADV PG 307	
MICROWAVE CONTROL DIV MICON INC BRICK NJ	201-458-30
ADV PG 306	
MURATA ERIE NORTH AMERICA INC SMYRNA GA	404-436-13
SOLID STATE ELECTRONICS CORP NORTHBRIDGE CA	818-993-82
VECTRON LABS INC NORWALK CT	203-853-44
ADV PG 302	
Anasco Corp Wakefield MA	617-246-33
Andersen Laboratories Inc Bloomfield CT	203-242-0761
AT & T Components & Electronic Systems Allentown PA	800-372-24
Aydin Vector Div Newtown PA	215-968-4271
Billie Electric Co Erie PA	814-838-35
Comstron Corp Freeport NY	516-546-9700
Connor-Winfield Corp West Chicago IL	312-231-5270
Crytek Corp Ft Myers FL	813-936-21
CTS Corp Elkhart IN	219-293-75
CTS Knights Inc Sandwich IL	815-786-84
Daiwa Crystal Corp Overland Park KS	913-491-6825
Dale Electronics Ltd Scarborough ON	416-759-58
Damon Electronics Div Westwood MA	617-329-24
EG & G Cinox Cincinnati OH	513-542-5555
Electrac Inc Anaheim CA	714-879-6021
Electronic Research Co Overland Park KS	913-631-6700
Erbtec Engineering Inc Boulder CO	303-447-87
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Frequency & Time Systems Inc Beverly MA	617-927-82
Frequency Electronics Mitchell Field NY	516-794-4500
Frequency Selective Networks Inc Woodside NY	718-424-75
Greenray Industries Inc Mechanicsburg PA	717-766-0223
Hughes Aircraft Co Microelectronic Circuits Div Newport Beach CA	714-759-24
Inductive Products Inc Garden Grove CA	714-891-25
Isotemp Research Inc Charlottesville VA	804-295-3101
K & L Quartztek Phoenix AZ	602-722-79
KDI Electronics Inc Whippany NJ	201-887-8100
KVG Fort Lauderdale FL	305-771-32
Leach Corp Control Products Div Buena Park CA	714-739-0770
M F Electronics Corp New Rochelle NY	914-576-65
Microsonics Inc Weymouth MA	617-337-4200
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Monitor Products Co Inc Oceanside CA	619-433-45
Murata Erie North America Inc Smyrna GA	404-436-13
Onaure Div Electronic Technologies Inc Charlottesville VA	804-977-80
Piezo Crystal Co Carlisle PA	717-249-2151
Piezo Technology Inc Orlando FL	305-298-2000
Q-Tech Corp Los Angeles CA	213-820-4921
Racal-Dana Instruments Inc Irvine CA	714-859-89
Reeves-Hoffman Div Carlisle PA	717-243-5929
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-4125
Seiko Instruments & Electronics Ltd Tokyo Japan	03-682-11
Solid State Electronics Corp Northridge CA	818-993-8257
Spectrum Technology Inc Goleta CA	805-964-7791
Techtrol Cyclometrics Inc New Cumberland PA	717-774-2746
T-F Electronics Inc Austin TX	512-345-2703
Valpey-Fisher Corp Hopkinton MA	617-435-68
Varian Electron Device Group Palo Alto CA	415-493-4000
Vectron Labs Inc Norwalk CT	203-853-4433
Wenzel Assoc Inc Austin TX	512-345-2703
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

OSCILLATOR SYNCHRONIZERS

BERKELEY NUCLEONICS CORP BERKELEY CA	415-527-112
Berkeley Nucleonics Corp Berkeley CA	415-527-112
EG & G Cinox Cincinnati OH	513-542-5555
Electrac Inc Anaheim CA	714-879-6021
Industrial Test Equipment Powertron Port Washington NY	516-883-1700
M/A-COM OSW Inc Tempe AZ	602-966-1471
Micro-Now Instrument Co Inc Skokie IL	312-677-4770
TRW Microwave Sunnyvale CA	408-732-0880
Tucker Electronics Co Garland TX	214-348-8800
Watkins-Johnson Co Palo Alto CA	415-493-4141

OSCILLOGRAPHS, RECORDING—CATHODE RAY WITH CAMERA

IWATSU INSTRUMENTS INC CARLSTADT NJ	201-935-522
ADV PG 310	
AMF Geo Space Corp Houston TX	713-666-161
Iwatsu Instruments Inc Carlstadt NJ	201-935-522

OSCILLOGRAPHS, RECORDING—DIRECT WRITING

STRO-MED INC WEST WARWICK RI	401-828-4000
ADV PG 251	
stro-Med Inc West Warwick RI.....	401-828-4000
ontinental Resources Inc Bedford MA.....	617-275-0850
enstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
uld Inc Recording Systems Div	
Cleveland OH.....	216-361-3315
ewlett-Packard Palo Alto CA.....	415-857-8000
oneywell Test Instruments Div Denver CO.....	303-773-4700
arel Instrument Co Cape Coral FL.....	813-574-8788
FE Instruments Corp Salem NH.....	603-893-1921
oltec Corp Sun Valley CA.....	818-767-0044
ucker Electronics Co Garland TX.....	214-348-8800
estern Graphtec Inc Irvine CA.....	714-770-6010

OSCILLOGRAPHS, RECORDING—LIGHT BEAM

HORN EMI TECHNOLOGY INC	
ATLANTA GA	404-587-0017
ADV PG 251	
ontinental Resources Inc Bedford MA.....	617-275-0850
enstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
athaway Corp Denver CO.....	303-756-8301
oneywell Test Instruments Div Denver CO.....	303-773-4700
asametric Inc Foster City CA.....	415-574-4441
arel Instrument Co Cape Coral FL.....	813-574-8788
oltec Corp Sun Valley CA.....	818-767-0044
orn EMI Technology Inc Atlanta GA.....	404-587-0017
ucker Electronics Co Garland TX.....	214-348-8800
okogawa Corp Of America Shenandoah GA.....	404-253-7000

OSCILLOSCOPE ACCESSORIES

See Cameras; Dollies; Probes

OSCILLOSCOPES—CURVE TRACER

B & K Precision Products Dynascan Corp	
Chicago IL.....	312-889-9087
enstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
asametric Inc Foster City CA.....	415-574-4441
enry Mann Inc Huntingdon Valley PA.....	215-355-7200
erry Instruments Inc A W Hauppauge NY.....	516-231-7050
tekrtronix Inc Beaverton OR.....	800-547-6711
ucker Electronics Co Garland TX.....	214-348-8800

OSCILLOSCOPES—DC TO 10 MHZ

HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
asco Corp Wakefield MA.....	617-246-3300
B & K Precision Products Dynascan Corp	
Chicago IL.....	312-889-9087
ata Check Corp San Diego CA.....	619-578-0101
ata Precision Div Analogic Danvers MA.....	617-246-1600
uMont Oscilloscope E & R Elctns Inc	
West Caldwell NJ.....	201-575-8666
electronics Warehouse Inc Old Lyme CT.....	203-434-9838
electronic Tool Co Inc Pleasantville NY.....	914-769-8070
enstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
ath Co Benton Harbor MI.....	616-982-3200
tachi Denshi America Ltd Woodbury NY.....	516-921-7200
unter Products Inc Bridgewater NJ.....	201-526-8440
Kikusui International Corp Gardena CA.....	213-515-6432
ader Instruments Corp Hauppauge NY.....	516-231-6900
asametric Inc Foster City CA.....	415-574-4441
ectrotech Inc Chicago IL.....	312-769-6262
enry Mann Inc Huntingdon Valley PA.....	215-355-7200
coliet Instrument Corp Oscilloscope Div	
Madison WI.....	608-273-5008
ark Distributors Inc Bridgeport CT.....	203-366-7200
hills Test & Measuring Instruments Inc	
Mahwah NJ.....	201-529-3800
ioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
hde & Schwarz GmbH & Co KG	
Muenchen W Germany.....	089-41290
tekrtronix Inc Beaverton OR.....	800-547-6711
ucker Electronics Co Garland TX.....	214-348-8800
u-Data Corp San Diego CA.....	619-279-6572

OSCILLOSCOPES—DC TO OVER 10 MHZ

HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
IWATSU INSTRUMENTS INC	
CARLSTADT NJ	201-935-5220
ADV PG 310	
alogic Corp Peabody MA.....	617-532-5660
asco Corp Wakefield MA.....	617-246-3300
ray Analysis Inc Ithaca NY.....	607-257-6800
allantine Laboratories Inc Boonton NJ.....	201-335-0900
B & K Precision Products Dynascan Corp	
Chicago IL.....	312-889-9087
alibron Instruments Div Burton-Rogers Co	
Waltham MA.....	617-894-6440
ata Precision Div Analogic Danvers MA.....	617-246-1600

DuMont Oscilloscope E & R Elctns Inc	
West Caldwell NJ.....	201-575-8666
Electronics Warehouse Inc Old Lyme CT.....	203-434-9838
Electronic Tool Co Inc Pleasantville NY.....	914-769-8070
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Hameg Inc Port Washington NY.....	516-883-3837
Heath Co Benton Harbor MI.....	616-982-3200
Hewlett-Packard Palo Alto CA.....	415-857-8000
Hitachi Denshi America Ltd Woodbury NY.....	516-921-7200
Hunter Products Inc Bridgewater NJ.....	201-526-8440
Iwatsu Instruments Inc Carlstadt NJ.....	201-935-5220
Kikusui International Corp Gardena CA.....	213-515-6432
Leader Instruments Corp Hauppauge NY.....	516-231-6900
Leasametric Inc Foster City CA.....	415-574-4441
LeCroy Corp Spring Valley NY.....	914-425-2000
Lectrotech Inc Chicago IL.....	312-769-6262
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA.....	619-481-3953
Norland Corp Fort Atkinson WI.....	414-563-8456
North American Soar Corp Cherry Hill NJ.....	609-488-1060
Park Distributors Inc Bridgeport CT.....	203-366-7200
Philips Test & Measuring Instruments Inc	
Mahwah NJ.....	201-529-3800
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany.....	089-41290
Sencore Inc Sioux Falls SD.....	605-339-0100
Simpson Electric Co Elgin IL.....	312-697-2260
Sperry Instruments Inc A W Hauppauge NY.....	516-231-7050
Tektronix Inc Beaverton OR.....	800-547-6711
Tucker Electronics Co Garland TX.....	214-348-8800
Vu-Data Corp San Diego CA.....	619-279-6572

OSCILLOSCOPES—DUAL TRACE

HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
IWATSU INSTRUMENTS INC	
CARLSTADT NJ	201-935-5220
ADV PG 310	
Anascope Corp Wakefield MA.....	617-246-3300
Array Analysis Inc Ithaca NY.....	607-257-6800
Ballantine Laboratories Inc Boonton NJ.....	201-335-0900
B & K Precision Products Dynascan Corp	
Chicago IL.....	312-889-9087
Calibron Instruments Div Burton-Rogers Co	
Waltham MA.....	617-894-6440
Continental Resources Inc Bedford MA.....	617-275-0850
Data Precision Div Analogic Danvers MA.....	617-246-1600
DuMont Oscilloscope E & R Elctns Inc	
West Caldwell NJ.....	201-575-8666
Electronics Warehouse Inc Old Lyme CT.....	203-434-9838
Electronic Tool Co Inc Pleasantville NY.....	914-769-8070
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Hameg Inc Port Washington NY.....	516-883-3837
Heath Co Benton Harbor MI.....	616-982-3200
Hewlett-Packard Palo Alto CA.....	415-857-8000
Hitachi Denshi America Ltd Woodbury NY.....	516-921-7200
Hunter Products Inc Bridgewater NJ.....	201-526-8440
Iwatsu Instruments Inc Carlstadt NJ.....	201-935-5220
Kikusui International Corp Gardena CA.....	213-515-6432
Leader Instruments Corp Hauppauge NY.....	516-231-6900
Leasametric Inc Foster City CA.....	415-574-4441
LeCroy Corp Spring Valley NY.....	914-425-2000
Lectrotech Inc Chicago IL.....	312-769-6262
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA.....	619-481-3953
Norland Corp Fort Atkinson WI.....	414-563-8456
North American Soar Corp Cherry Hill NJ.....	609-488-1060
Park Distributors Inc Bridgeport CT.....	203-366-7200
Philips Test & Measuring Instruments Inc	
Mahwah NJ.....	201-529-3800
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany.....	089-41290
Sencore Inc Sioux Falls SD.....	605-339-0100
Simpson Electric Co Elgin IL.....	312-697-2260
Sperry Instruments Inc A W Hauppauge NY.....	516-231-7050
Tektronix Inc Beaverton OR.....	800-547-6711
Tucker Electronics Co Garland TX.....	214-348-8800
Vu-Data Corp San Diego CA.....	619-279-6572
Wavetek Indiana Inc Beech Grove IN.....	317-787-3332

OSCILLOSCOPES—GENERAL PURPOSE, AC COUPLED ONLY

IWATSU INSTRUMENTS INC	
CARLSTADT NJ	201-935-5220
ADV PG 310	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
Anascope Corp Wakefield MA.....	617-246-3300
Ballantine Laboratories Inc Boonton NJ.....	201-335-0900
B & K Precision Products Dynascan Corp	
Chicago IL.....	312-889-9087
Calibron Instruments Div Burton-Rogers Co	
Waltham MA.....	617-894-6440
DuMont Oscilloscope E & R Elctns Inc	
West Caldwell NJ.....	201-575-8666
Electronic Tool Co Inc Pleasantville NY.....	914-769-8070
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Hameg Inc Port Washington NY.....	516-883-3837
Heath Co Benton Harbor MI.....	616-982-3200
Iwatsu Instruments Inc Carlstadt NJ.....	201-935-5220
Leader Instruments Corp Hauppauge NY.....	516-231-6900
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Omega Engineering Inc Stamford CT.....	203-359-1660

Park Distributors Inc Bridgeport CT.....	203-366-7200
Philips Test & Measuring Instruments Inc	
Mahwah NJ.....	201-529-3800
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany.....	089-41290
Tektronix Inc Beaverton OR.....	800-547-6711
Texscan Corp Phoenix AZ.....	602-552-5021

OSCILLOSCOPES—MULTIPLE CHANNEL

IWATSU INSTRUMENTS INC	
CARLSTADT NJ	201-935-5220
ADV PG 310	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
Analogic Corp Peabody MA.....	617-532-5660
Anascope Corp Wakefield MA.....	617-246-3300
Array Analysis Inc Ithaca NY.....	607-257-6800
Ballantine Laboratories Inc Boonton NJ.....	201-335-0900
Brandon Corp T G Lake Oswego OR.....	503-620-7571
Calibron Instruments Div Burton-Rogers Co	
Waltham MA.....	617-894-6440
Continental Resources Inc Bedford MA.....	617-275-0850
Data Check Corp San Diego CA.....	619-578-0101
Data Precision Div Analogic Danvers MA.....	617-246-1600
DuMont Oscilloscope E & R Elctns Inc	
West Caldwell NJ.....	201-575-8666
Electronic Tool Co Inc Pleasantville NY.....	914-769-8070
Feedback Inc Berkeley Heights NJ.....	201-464-5181
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Hameg Inc Port Washington NY.....	516-883-3837
Heath Co Benton Harbor MI.....	616-982-3200
Hewlett-Packard Palo Alto CA.....	415-857-8000
Iwatsu Instruments Inc Carlstadt NJ.....	201-935-5220
Kikusui International Corp Gardena CA.....	213-515-6432
Leader Instruments Corp Hauppauge NY.....	516-231-6900
Leasametric Inc Foster City CA.....	415-574-4441
LeCroy Corp Spring Valley NY.....	914-425-2000
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Nicolet Instrument Corp Oscilloscope Div	
Madison WI.....	608-273-5008
Norland Corp Fort Atkinson WI.....	414-563-8456
North American Soar Corp Cherry Hill NJ.....	609-488-1060
Omega Engineering Inc Stamford CT.....	203-359-1660
Park Distributors Inc Bridgeport CT.....	203-366-7200
Philips Test & Measuring Instruments Inc	
Mahwah NJ.....	201-529-3800
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany.....	089-41290
Sperry Instruments Inc A W Hauppauge NY.....	516-231-7050
Tektronix Inc Beaverton OR.....	800-547-6711
Tucker Electronics Co Garland TX.....	214-348-8800

OSCILLOSCOPES—PORTABLE

IWATSU INSTRUMENTS INC	
CARLSTADT NJ	201-935-5220
ADV PG 310	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
Anascope Corp Wakefield MA.....	617-246-3300
Array Analysis Inc Ithaca NY.....	607-257-6800
Ballantine Laboratories Inc Boonton NJ.....	201-335-0900
B & K Precision Products Dynascan Corp	
Chicago IL.....	312-889-9087
Brandon Corp T G Lake Oswego OR.....	503-620-7571
Calibron Instruments Div Burton-Rogers Co	
Waltham MA.....	617-894-6440
Continental Resources Inc Bedford MA.....	617-275-0850
DuMont Oscilloscope E & R Elctns Inc	
West Caldwell NJ.....	201-575-8666
Electronics Warehouse Inc Old Lyme CT.....	203-434-9838
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Hameg Inc Port Washington NY.....	516-883-3837
Hewlett-Packard Palo Alto CA.....	415-857-8000
Hitachi Denshi America Ltd Woodbury NY.....	516-921-7200
Infodex Inc Waterbury CT.....	203-757-9291
Iwatsu Instruments Inc Carlstadt NJ.....	201-935-5220
Kikusui International Corp Gardena CA.....	213-515-6432
Leader Instruments Corp Hauppauge NY.....	516-231-6900
Leasametric Inc Foster City CA.....	415-574-4441
LeCroy Corp Spring Valley NY.....	914-425-2000
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Nicolet Instrument Corp Oscilloscope Div	
Madison WI.....	608-273-5008
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA.....	619-481-3953
Norland Corp Fort Atkinson WI.....	414-563-8456
North American Soar Corp Cherry Hill NJ.....	609-488-1060
Omega Engineering Inc Stamford CT.....	203-359-1660
Park Distributors Inc Bridgeport CT.....	203-366-7200
Philips Test & Measuring Instruments Inc	
Mahwah NJ.....	201-529-3800
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
Sperry Instruments Inc A W Hauppauge NY.....	516-231-7050
Tektronix Inc Beaverton OR.....	800-547-6711
Tucker Electronics Co Garland TX.....	214-348-8800
Vu-Data Corp San Diego CA.....	619-279-6572

OSCILLOSCOPES—SAMPLING

IWATSU INSTRUMENTS INC	
CARLSTADT NJ	201-935-5220
ADV PG 310	
Array Analysis Inc Ithaca NY.....	607-257-6800



DC ~ 100 MHz
DIGITAL STORAGE SCOPE
2-Channel, 4-trace



DS-6121/6121A
100 MHz Equivalent Sampling
100 MHz Real-Time
Oscilloscope

- 100 MHz analog and digital storage bandwidth
- 40 MS/s digitizing rate
- cursor measurement (analog and digital modes)
- 4 waveform and 7 set-up memories
- GO/NO GO judgement
- Averaging
- Fully programmable interface
- +, -, × arithmetic operations
- Curve pulse interpolation
- 10 MHz single-shot digital bandwidth with interpolation
- Glitch capture and envelope mode available on Model DS-6121A
- 3 year warranty

Oscilloscopes

DC ~ 100 MHz



TS-8123

Analog and Digital storage oscilloscope with compartments for 2 plug-in units

- 3000 cm/μs super-high writing speed
- Stored waveforms can be digitized
 - 1) Ultra high speed: equivalent to 25 GHz clock
 - 2) 8-bit (1/256 resolution is independent of input frequency even with 100 MHz signals)
 - 3) Easy operation by simply pressing the Write & Read switch
- Composite video output. Stored waveform can be viewed on external monitor, recorded on VTR or printer.
- Measuring conditions can be displayed by set-up condition menu or displayed with digitized waveform.
- Waveform comparison is possible. The stored waveform can be digitized and compared with another digitized or real-time waveform.
- GPIB interface



3.5/12.4 GHz
SAMPLING
OSCILLOSCOPE

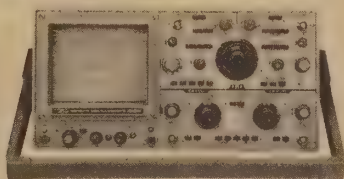


SAS-8130

High Speed Waveform Analyzer Featuring Intelligent Processing

- Character readout and cursors on 7" CRT
- 10-bit, 1 k-word memory for each of 2 channels
- Post capturing data processing averaging up to 1024 times
- Time and voltage measurement by local program
- GPIB interface
- Local programming capability and auto program sequence
- Character display and keyboard make operations easy
- Digital time and voltage readouts
- Automatic waveform search and auto ranging

DC ~ 100 MHz



SS-5711

4-input, 8-trace portable oscilloscope

- Typical frequency of from DC to 120 MHz, -3dB, thereby having a 20 MHz margin over the specified frequency response
- Highly precise and stable deflection factor and sweep rate ±2%
- Enhance Mode
- Jitterless circuitry for stable triggering
- Includes probes, front cover and accessory pouch

DC ~ 200 MHz

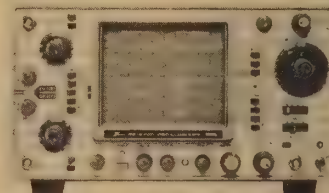


SS-5712

4-input, 8-trace portable oscilloscope

- Reliable time difference between channels: Less than 500 ps between CH1 and CH2, Less than 1 ns between CH1/2 and CH3/4
- Freerunning ground facility: Easy GND level checking
- High-grade 6-inch quadrupole-lens, dome mesh CRT
- 4 bit-logic triggering (optional)
- Enhance mode increases trace brightness by doubling beam current in the nine higher speed ranges.

DC ~ 40 MHz



SS5705 — 40 MHz
SS-5706 — 30 MHz

- ±2% accuracy for V and H deflection
- 12kV CRT
- Maximum delay jitter of 1/20,000
- High Sensitivity: 1mV/div
- 3 Channel Display
- High Precision Calibrator
- 6 Traces with Model SS-5705
- Fastest Sweep Rate:
 - 10ns (Model SS-5705)
 - 20ns (Model SS-5706)

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ioneer Instrumentation Div Pioneer Std	
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ohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
ektronix Inc Beaverton OR	800-547-6711
ucker Electronics Co Garland TX	214-348-8800

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OXIDES

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PACEMAKERS

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Wilbrecht Electronics Inc St Paul MN	612-222-2791
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Diamondite Products Shreve OH	216-567-2140
Do-Rite Mfg Co Elmwood Park NJ	201-796-1902
Eimac Div Varian Associates San Carlos CA	415-592-1221
Frenchtown Ceramics Co Frenchtown NJ	201-996-2121
Glass Beads Co Latrobe PA	412-537-7775
Glasseal Products Inc Lakewood NJ	201-370-9100
GTE Precision Materials Danvers MA	617-777-1900
Hermetic Seal Corp Rosemead CA	213-283-0411
Hittman Materials & Medical Components	
Columbia MD	301-730-7800
Idea Industries Inc Millington NJ	201-647-2733
Isotronics Inc New Bedford MA	617-998-2000
Jennings Div FL Industries San Jose CA	408-292-4002
McVen Electronics Lab Red Bank NJ	201-741-1711
Micro Mode Products Inc El Cajon CA	619-449-3884
M-O Valve Co Ltd London England	01-603-3431
Mykro/Mycalex Clifton NJ	201-779-8866
National Beryllia Div/General Ceramics Inc	
Haskell NJ	201-839-1600
NTK Technical Ceramic Div Richardson TX	214-235-8331
Stamet Mfg Corp Fairfield NJ	201-227-2432
Technology Glass Div Union City CA	415-487-5860
Tekform Products Div Gen Ceramics Inc	
Haskell NJ	201-839-1600
Texas Instruments Optoelectronics Dallas TX	214-955-6611
Varian Electron Device Group Palo Alto CA	415-493-4000
Wilbrecht Electronics Inc St Paul MN	612-222-2791

PACKAGE PARTS—HERMETIC SEALS, GLASS-TO-METAL

AIRPAX CORP CAMBRIDGE DIV CAMBRIDGE MD 301-228-46

Aegis Inc New Bedford MA.....	617-998-3141
Airpax Corp Cambridge Div Cambridge MD.....	301-228-4600
Atlantic Optical Moulding Co Dudley MA.....	617-943-1746
Balo Precision Parts Inc Franklin Lakes NJ.....	201-337-2011
Betatron Inc Costa Mesa CA.....	714-557-9933
Budd Cato Assoc Inc Brielle NJ.....	201-528-7439
Connector Indus of Amer Div Microdot Cincinnati OH.....	513-733-3680
Corning Glass Works Elctn Materials Dept Corning NY.....	607-974-4102
Detronics Corp S El Monte CA.....	818-579-7130
Device Closures Div Mirro-Etch Prods Inc Stratford CT.....	203-378-4052
Do-Rite Mfg Co Elmwood Park NJ.....	201-796-1902
Elecpac Div Wilbrecht Electronics Cary IL.....	312-639-2307
Electrical Industries Div Philips Elctns Inc Murray Hill NJ.....	201-464-3200
Fifth Dimension Inc Trenton NJ.....	609-393-8350
Fusite Div Emerson Electric Co Cincinnati OH.....	513-731-2020
Glass Beads Co Latrobe PA.....	412-537-7791
Glassteel Products Inc Lakewood NJ.....	201-370-9100
GTE Precision Materials Danvers MA.....	617-777-1900
Hermetic Seal Corp Rosemead CA.....	213-283-0411
Hittman Materials & Medical Components Columbia MD.....	301-730-7800
Houston Electronics Corp Kane PA.....	814-837-9550
den Industries Inc Millington NJ.....	201-647-2734
Isotronics Inc New Bedford MA.....	617-998-2000
Micro Mode Products Inc El Cajon CA.....	619-449-3844
Mindrum Precision Products Rancho Calumonga CA.....	714-989-1728
Motorola Semiconductor Products Inc Phoenix AZ.....	602-244-6900
M-O Valve Co Ltd London England.....	01-603-3431
Mykroy/Mycalex Clifton NJ.....	201-779-8866
National Beryllia Div/General Ceramics Inc Haskell NJ.....	201-839-1600
Reeves-Hoffman Div Carlisle PA.....	717-243-5929
Richland Glass Co Richland NJ.....	609-691-1697
Schott Electronics Ansonia CT.....	203-736-2677
Sealtrom Inc Cincinnati OH.....	513-733-8400
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Technology Glass Div Union City CA.....	415-487-5860
Tekform Products Div Gen Ceramics Inc Haskell NJ.....	201-839-1600
Texas Instruments Optoelectronics Dallas TX.....	214-995-6611
Warren Components Corp Warren PA.....	814-723-6200
Wilbrecht Electronics Inc St Paul MN.....	612-222-2791

PACKAGE PARTS—HERMETIC SEALS, SAPPHIRE-TO-GLASS

Aegis Inc New Bedford MA.....	617-998-3141
Budd Cato Assoc Inc Brielle NJ.....	201-528-7439
Detronics Corp S El Monte CA.....	818-579-7130
Elmac Div Varian Associates San Carlos CA.....	415-592-1221
Electrical Industries Div Philips Elctns Inc Murray Hill NJ.....	201-464-3200
Isotronics Inc New Bedford MA.....	617-998-2000
Micro Mode Products Inc El Cajon CA.....	619-449-3844
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Technology Glass Div Union City CA.....	415-487-5860

PACKAGE PARTS—HERMETIC SEALS, SAPPHIRE-TO-METAL

CERAMASEAL DIV CLEVEPAK CORP NEW LEBANON CENTER NY.....	518-794-7800
ADV PG 81	
Aegis Inc New Bedford MA.....	617-998-3141
Betatron Inc Costa Mesa CA.....	714-557-9933
Budd Cato Assoc Inc Brielle NJ.....	201-528-7439
Ceramaseal Div Clevepak Corp New Lebanon Center NY.....	518-794-7800
Detronics Corp S El Monte CA.....	818-579-7130
Elmac Div Varian Associates San Carlos CA.....	415-592-1221
Electrical Industries Div Philips Elctns Inc Murray Hill NJ.....	201-464-3200
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Technology Glass Div Union City CA.....	415-487-5860
Varian Electron Device Group Palo Alto CA.....	415-493-4000

PACKAGE PARTS—LEAD FRAMES

MICRO CONTACTS INC AFFIL MOLD-A-MATIC CORP HICKSVILLE NY.....	516-433-4830
ADV PG 259	
Ark-Les Corp Watertown MA.....	617-924-2330
Betatron Inc Costa Mesa CA.....	714-557-9933
Budd Cato Assoc Inc Brielle NJ.....	201-528-7439
Detronics Inc Hackensack NJ.....	201-343-9405
Device Closures Div Mirro-Etch Prods Inc Stratford CT.....	203-378-4052
Die-Tech Inc York Haven PA.....	717-938-6771
Dixon Industries Corp Bristol RI.....	401-253-2000
Do-Rite Mfg Co Elmwood Park NJ.....	201-796-1902
Elecpac Div Wilbrecht Electronics Cary IL.....	312-639-2307
GTE Precision Materials Danvers MA.....	617-777-1900
Handy & Harman Electronic Mats Corp North Attitboro MA.....	617-695-1401
Heraeus-Volkert Inc Queens Village NY.....	718-464-8400
Malco Div Microdot Inc Montgomeryville PA.....	215-699-5373
Metal Forming Oper GTE Prods Corp York PA.....	717-848-8080
Micro Contacts Inc Affil Mold-A-Matic Corp Hicksville NY.....	516-433-4830
Optifab Inc Phoenix AZ.....	602-271-0921
Photofabrication Technology Inc Derry NH.....	603-432-1200
Plastronic Engineering Co Haverhill MA.....	617-372-7703
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Tech-Etch Inc Plymouth MA.....	617-747-0300

PACKAGE PARTS—MECHANICAL SEALS

See Seals—Mechanical

PACKAGES—AVIONICS HOUSINGS

Abalon Precision Mfg Corp Bronx NY.....	212-589-5682
Adams-Russell Modpak Burlington MA.....	617-273-3330
Aegis Inc New Bedford MA.....	617-998-3141
Applied Design Co Inc Tonawanda NY.....	716-837-4400
ECS Composites Grants Pass OR.....	503-476-8871
Gemini Inc Cannon Falls MN.....	507-263-3957
Great Eastern Metal Products Co Yonkers NY.....	914-476-7300
International Electronic Research Corp Burbank CA.....	213-849-2481
ITT Pomona Electronics Pomona CA.....	714-623-3463
Kinetron Corp Asbury Park NJ.....	201-776-9595
Microavionics Costa Mesa CA.....	714-957-6904
Mod-A-Can Inc Hicksville NY.....	516-931-7700
Ny-Glass Plastics Paramount CA.....	213-636-1035
Parsons Mfg Corp Menlo Park CA.....	415-324-4726
Plastronic Engineering Co Haverhill MA.....	617-372-7703
Republic Packaging Corp Chicago IL.....	312-233-6530
Robison Electronics Inc San Luis Obispo CA.....	805-544-8000
Schry-Way Cases Pasadena CA.....	818-798-1166
Skydne A Brooks & Perkins Div AAR Corp Port Jervis NY.....	914-856-6655
Solltron Devices Inc Semiconductor Group Riviera Beach FL.....	305-848-4311
Thermodyne Intl Ltd Long Beach CA.....	213-603-1976
Val Instruments Inc Torrance CA.....	213-320-5471
Zero Corp Burbank CA.....	818-846-4191

PACKAGES—CASES, PORTABLE

See Cases—Portable

PACKAGES—COMPONENT OVENS (INCL. CRYSTAL OVENS)

INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA.....	818-991-9614
Automatic Test Systems Malden MA.....	617-322-1107
Cox & Company Inc New York NY.....	212-674-4727
CTS Knights Inc Sandwich IL.....	815-786-8411
International Instrumentation Inc Westlake Village CA.....	818-991-9614
Isotemp Research Inc Charlottesville VA.....	804-295-3101
Microtest Systems Inc Sunnyvale CA.....	408-745-7000
Midwest Components Inc Muskegon MI.....	616-777-2602
Monitor Products Co Inc Oceanside CA.....	619-433-4510
Oven Industries Inc Mechanicsburg PA.....	804-977-8050
Photofabrication Technology Inc Derry NH.....	603-432-1200
Plastronic Engineering Co Haverhill MA.....	617-372-7703
Ross Co Milton Southampton PA.....	215-355-0200
Schott Electronics Ansonia CT.....	203-736-2677

PACKAGES—CRYSTAL, RELAY & SIMILAR (EXCEPT OVENS)

Hermetic Seal Corp Rosemead CA.....	213-283-0411
Hudson Tool & Die Co Newark NJ.....	201-589-1800
Plastronic Engineering Co Haverhill MA.....	617-372-7703
Reeves-Hoffman Div Carlisle PA.....	717-243-5929
Schott Electronics Ansonia CT.....	203-736-2677
Stetron International Inc Buffalo NY.....	716-854-3443
Stevens Products Inc East Orange NJ.....	201-672-2140
Wilbrecht Electronics Inc St Paul MN.....	612-222-2791

PACKAGES—FLATPACKS

Accessories for Electronics Inc Baldwin NY.....	516-546-1751
Aegis Inc New Bedford MA.....	617-998-3141
Betatron Inc Costa Mesa CA.....	714-557-9933
Budd Cato Assoc Inc Brielle NJ.....	201-528-7439
Frenchtown Ceramics Co Frenchtown NJ.....	201-996-2121
Gibson-Egan Co Duarte CA.....	818-358-0191
Glassteel Products Inc Lakewood NJ.....	201-370-9100
Hermetic Seal Corp Rosemead CA.....	213-283-0411
Hudson Tool & Die Co Newark NJ.....	201-589-1800
Isotronics Inc New Bedford MA.....	617-998-2000
Metal Forming Oper GTE Prods Corp York PA.....	717-848-8080
Mini-Systems Inc No Attleboro MA.....	617-695-0203
National Beryllia Div/General Ceramics Inc Haskell NJ.....	201-839-1600
NTK Technical Ceramic Div Richardson TX.....	214-235-8332
Pantasote Inc Packaging Div Passaic NJ.....	201-777-8500
Plastiglide Mfg Corp Hawthorne CA.....	213-777-8108
Plastronic Engineering Co Haverhill MA.....	617-372-7703
Reeves-Hoffman Div Carlisle PA.....	717-243-5929
Republic Packaging Corp Chicago IL.....	312-233-6530
Ross Co Milton Southampton PA.....	215-355-0200
Schott Electronics Ansonia CT.....	203-736-2677
Solltron Devices Inc Semiconductor Group Riviera Beach FL.....	305-848-4311
Stetron International Inc Buffalo NY.....	716-854-3443
Tekform Products Div Gen Ceramics Inc Haskell NJ.....	201-839-1600
Texas Instruments Optoelectronics Dallas TX.....	214-995-6611
Wells Electronics Inc South Bend IN.....	219-287-5941
Wilbrecht Electronics Inc St Paul MN.....	612-222-2791

PACKAGES—PLUG-IN MODULES (WITH BASES)

Adams-Russell Modpak Burlington MA.....	617-273-3330
Aegis Inc New Bedford MA.....	617-998-3141
Applied Design Co Inc Tonawanda NY.....	716-837-4400
Betatron Inc Costa Mesa CA.....	714-557-9933
Budd Cato Assoc Inc Brielle NJ.....	201-528-7439
Circuit Assembly Corp Irvine CA.....	714-855-7887
Dietz Design Inc Belton MO.....	816-331-4911
Elecpac Div Wilbrecht Electronics Cary IL.....	312-639-2307
Electrical Industries Div Philips Elctns Inc Murray Hill NJ.....	201-464-3200
Frenchtown Ceramics Co Frenchtown NJ.....	201-996-2121
Hermetic Seal Corp Rosemead CA.....	213-283-0411
Hestia Industries & Technologies Santa Clara CA.....	408-737-1212
Isotronics Inc New Bedford MA.....	617-998-2000
Kulka Smith Inc Manassan NJ.....	201-223-9400
Modor Technical Products Tampa FL.....	813-855-5736
Moldtronics Inc Downers Grove IL.....	312-968-7000
Plastronic Engineering Co Haverhill MA.....	617-372-7703
Polycase Products Div ECP Corp Cleveland OH.....	216-391-0444
Ross Co Milton Southampton PA.....	215-355-0200
Samtec Inc New Albany IN.....	812-944-6733
Schott Electronics Ansonia CT.....	203-736-2677
Schroff Inc Warwick RI.....	401-732-3770
Tekform Products Div Gen Ceramics Inc Haskell NJ.....	201-839-1600
Vector Electronic Co Inc Sylmar CA.....	818-365-9661

PACKAGES—SHIPPING & STORAGE

See Boxes

PACKAGES—TRANSISTOR TYPE (INCL. SCR, TRANSISTOR OUTLINE IC, ETC.)

POWEREX INC YOUNGWOOD PA.....	412-925-7272
Electrical Industries Div Philips Elctns Inc Murray Hill NJ.....	201-464-3200
Frenchtown Ceramics Co Frenchtown NJ.....	201-996-2121
Gentron Corp Milwaukee WI.....	414-351-1660
Glassteel Products Inc Lakewood NJ.....	201-370-9100
GTE Precision Materials Danvers MA.....	617-777-1900
Isotronics Inc New Bedford MA.....	617-998-2000
K-20 Industries Palo Alto CA.....	415-941-3461
Kyocera Intl Inc Elctn Comps Group San Diego CA.....	619-454-1800
Moldtronics Inc Downers Grove IL.....	312-968-7000
National Beryllia Div/General Ceramics Inc Haskell NJ.....	201-839-1600
NTK Technical Ceramic Div Richardson TX.....	214-235-8332
Pantasote Inc Packaging Div Passaic NJ.....	201-777-8500
Powerex Inc Youngwood PA.....	412-925-7272
Schott Electronics Ansonia CT.....	203-736-2677
Semikron Inc Hudson NH.....	603-883-8102
Solltron Devices Inc Semiconductor Group Riviera Beach FL.....	305-848-4311
Texas Instruments Optoelectronics Dallas TX.....	214-995-6611
Tulox Plastics Corp Marion IN.....	317-664-5155
Wells Electronics Inc South Bend IN.....	219-287-5941
Wilbrecht Electronics Inc St Paul MN.....	612-222-2791

PACKAGING MATERIALS (FOR SHIPPING)

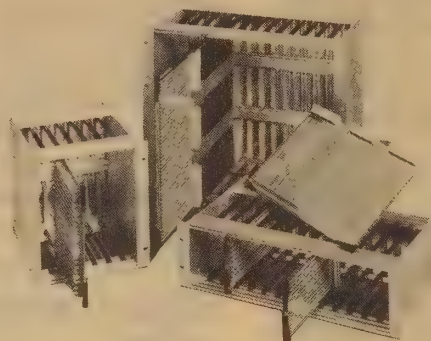
See Also Boxes

INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA.....	818-991-9614
3M CO STATIC CONTROL SYSTEMS AUSTIN TX.....	800-328-1368
Associated Sales & Bag Co Milwaukee WI.....	414-272-2380
A Subs US Box Crafts Inc Brooklyn NY.....	718-387-1510
Conductive Containers Inc Northbrook IL.....	312-480-7887
Corrugated Paper Products Inc Roosevelt NY.....	516-379-8200
Donray Co Cleveland OH.....	216-449-6450
Dow Chemical Co Midland MI.....	517-636-1000
ECS Composites Grants Pass OR.....	503-476-8871
Erich Intl Div All Pkg Machy & Supplies Corp Ronkonkoma NY.....	718-895-5870
Flex Products Carlstadt NJ.....	201-933-3030
Form Fit Plastics Dracut MA.....	617-957-2943
Hardigg Industries Inc South Deerfield MA.....	413-665-2163
Harwil Co Santa Monica CA.....	213-829-2310
International Instrumentation Inc Westlake Village CA.....	818-991-9614
Jiffy Packaging Murray Hill NJ.....	201-665-2200
Kole Industries Inc Miami FL.....	305-633-2556
Minigrip Inc Orangeburg NY.....	914-359-3100
3M Co Static Control Systems Austin TX.....	800-328-1368
Nitto Denko America Inc Port Washington NY.....	516-484-9700
Olympic Plastics Co Los Angeles CA.....	213-837-5321
Pantasote Inc Packaging Div Passaic NJ.....	201-777-8500
Parsons Mfg Corp Menlo Park CA.....	415-324-4726
Peter Partition Corp Brooklyn NY.....	212-693-6900
Plastics Systems Inc Marlboro MA.....	617-485-7390
Prevent Static Inc Pennsauken NJ.....	609-665-5595
Rectico Inc Fairfield NJ.....	201-575-0009
Republic Packaging Corp Chicago IL.....	312-233-6530
Richmond Technology Inc Redlands CA.....	714-794-2111
Scientific Enterprises Inc Broomfield CO.....	303-469-7801
Sealed Air Corp Fair Lawn NJ.....	201-797-4000
Static Inc Skippack PA.....	215-584-9600
Teknational Industries Inc Rochester NY.....	716-232-1291
Thermodyne Intl Ltd Long Beach CA.....	213-603-1976
U S Box Corp Newark NJ.....	201-481-2000
Wescorp Div DAL Indus Inc Mt View CA.....	415-969-7771
Zippertubing Co Los Angeles CA.....	213-321-3910



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PACKAGING SERVICES (ELECTRONIC ASSEMBLY)

See Production Services

PACKAGING SERVICES (FOR SHIPPING)

Donray Co Cleveland OH.....	216-449-6450
Erich Int'l Div All Pckg Machy & Supplies Corp Ronkonkoma NY.....	718-895-5870
Hardman Incorporated Belleville NJ.....	201-751-3000
Peter Partition Corp Brooklyn NY.....	212-693-6900
Prevent Static Inc Pennsauken NJ.....	609-665-5595
Rectico Inc Fairfield NJ.....	201-575-0009
Republic Packaging Corp Chicago IL.....	312-233-6530
Sealed Air Corp Fair Lawn NJ.....	201-797-4000
Wescorp Div DAL Indus Inc Mt View CA.....	415-969-7717

PACKAGING SYSTEMS (WITH MODULAR CASES, CONNECTORS & INTERCONNECTIONS)

BUD INDUSTRIES INC WILLOUGHBY OH.....	216-946-3200
ADV PG 173	
COMPAC HOLBROOK NY.....	516-585-3400
ADV PG 174	
INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA.....	818-991-9614
MUPAC CORP BROCKTON MA.....	617-588-6110
ADV PG 314	
PREMIER METAL PRODUCTS CO BRONX NY.....	212-993-9200
ADV PG 51	
PREMIER METAL PRODUCTS CO FONTANA CA.....	714-829-3089
ADV PG 51	
RESEARCH INSTRUMENT CO INC SOUTH WINDSOR CT.....	203-528-9625
Adams-Russell Modpak Burlington MA.....	617-273-3330
Aegis Inc New Bedford MA.....	617-998-3141
AMP Products Corp Southeastern PA.....	215-647-1000
Bud Industries Inc Willoughby OH.....	216-946-3200
Circuit Assembly Corp Irvine CA.....	714-855-7887
Compac Holbrook NY.....	516-585-3400
ECS Composites Grants Pass OR.....	503-476-8871
Elec Corp Newport Beach CA.....	714-476-0663
Electronic Molding Corp Woonsocket RI.....	401-769-3800
Electronic Solutions San Diego CA.....	714-292-0242
Hybricon Corp Littleton MA.....	617-486-0311
Interdyne Co Van Nuys CA.....	213-787-6800

International Electronic Research Corp Burbank CA.....	213-849-2481
Omega Instrumentation Inc Westlake Village CA.....	818-991-9614
Isotronics Inc New Bedford MA.....	617-998-2000
LaFrance Corp Philadelphia PA.....	215-365-8000
Malco Div Microdot Inc Montgomeryville PA.....	215-699-5373
Methode Electronics Inc Interconnect Prods Div Rolling Meadows IL.....	312-392-3500
Mupac Corp Brockton MA.....	617-588-6110
New Jersey Machine Inc Fairfield NJ.....	201-227-8300
Ny-Glass Plastics Paramount CA.....	213-636-1035
Optima Div Scientific-Atlanta Inc Tucker GA.....	404-939-6340
PCK Elastomerics Inc Hatboro PA.....	215-672-0787
Premier Metal Products Co Bronx NY.....	212-993-9200
Premier Metal Products Co Fontana CA.....	714-829-3089
Research Instrument Co Inc South Windsor CT.....	203-528-9625
Scanbe Div Zero Corp El Monte CA.....	818-579-2300
Schroff Inc Warwick RI.....	401-732-3770
Skydyne A Brooks & Perkins Div AAR Corp Port Jervis NY.....	914-856-6655
Stanford Applied Engineering Santa Clara CA.....	408-988-0700
Symtron Corp Mt View CA.....	415-965-4500
Teradyne Connection Systems Inc Nashua NH.....	603-889-5156
Vector Electronic Co Inc Sylmar CA.....	818-365-9661

PADS

See Attenuators—A-F

PAINTS & VARNISHES—METAL & WOOD FINISHING

CRC Chemicals USA Warminster PA.....	215-674-4300
Injectorall Electronics Corp Glen Cove NY.....	516-671-6010
Pierce & Stevens Chemical Corp Buffalo NY.....	716-631-8991
Sakas Inc Baltimore OH.....	614-862-4114
Schenectady Chemicals Inc Schenectady NY.....	518-370-4200
SPC Technology Bensenville IL.....	312-766-6711
Sperex Corp Gardena CA.....	213-323-6162
Viking Chemical Products Inc Waverly NY.....	607-565-4551

PAINTS—LUMINOUS

Canrad-Hanovia Inc Newark NJ.....	201-589-4300
GTE Precision Materials Danvers MA.....	617-777-1900
Markal Co Chicago IL.....	312-826-1700
Shannon Luminous Materials Inc Santa Ana CA.....	714-432-0122
Strobilite Co Inc New York NY.....	212-929-3778

PAINTS—PRINTED CIRCUIT, CONDUCTIVE & RESISTIVE

See Also Coatings; Silk Screen Listings

OLIN HUNT SPECIALTY PRODUCTS INC WEST PATERSON NJ.....	201-977-6000
TECKNIT CRANFORD NJ.....	201-272-5500
Acheson Colloids Co Port Huron MI.....	313-984-5588
Acme Div Allied Prods Corp New Haven CT.....	203-562-217
Chomerics Inc Woburn MA.....	617-935-485
Echelon Industries Inc Walnut CA.....	714-594-189
GC Electronics Div Household Intl Rockford IL.....	815-968-986
GTE Precision Materials Danvers MA.....	617-777-1900
Master Bond Inc Englewood NJ.....	201-343-898
Mereco Div Metachem Resins Corp Warwick RI.....	401-828-455
Methode Electronics Inc Chicago IL.....	312-867-960
Micro-Circuits Co New Buffalo MI.....	616-469-272
Olin Hunt Specialty Products Inc West Paterson NJ.....	201-977-6000
Pierce & Stevens Chemical Corp Buffalo NY.....	716-631-899
Tecknit Cranford NJ.....	201-272-550

PAINTS—SILK-SCREEN CIRCUIT

See Silk Screening Inks

PAINTS—TEMPERATURE INDICATING

See Temperature Indicating Paints

PALLADIUM

See Metals—Platinum

PANEL LAMPS

See Indicator Lights; Lamps

PANEL METERS

See Meters

PANELS—DISPLAY

See Display Panels

PANELS—INSTRUMENT

BUD INDUSTRIES INC WILLOUGHBY OH.....	216-946-3200
MILLER CO INC W A OQUOSSOC ME.....	207-864-334
ADV PG 79	
OMEGA ENGINEERING INC STAMFORD CT.....	203-359-166
ADV PG Gatefold	
PANELTEC INC SANTA CLARA CA.....	408-496-117
PREMIER METAL PRODUCTS CO BRONX NY.....	212-993-9200
ADV PG 51	
PREMIER METAL PRODUCTS CO FONTANA CA.....	714-829-3089
ADV PG 51	
SAGER HINGHAM MA.....	617-749-670
ADV PGS Green Pages/Footstrips	
Abalon Precision Mfg Corp Bronx NY.....	212-589-568
ADC Telecommunications Minneapolis MN.....	612-835-680
Advanced Input Devices Coeur d'Alene ID.....	208-765-8000
Amco Engineering Co Schiller Park IL.....	312-671-667
Ango Electronics Corp Harrison NJ.....	201-484-111
Apahouse-Elcom Inc Watertown MA.....	617-924-150
Applied Controls Co Inc Fairfield NJ.....	201-227-545
ATACS Corp Oxford PA.....	215-932-300
Automation Displays Inc Eau Claire WI.....	715-834-959
Bailey Controls Co Wickliffe OH.....	216-585-850
Best Mfg Co Montrose CO.....	303-249-BES
Brady Co W H Xymox Div Milwaukee WI.....	414-355-830
Bud Industries Inc Willoughby OH.....	216-946-3200
Churchill Corp Melrose MA.....	800-225-393
Crouse-Hinds Co Syracuse NY.....	315-477-700
Delta Electronics Inc Alexandria VA.....	703-354-335
Devco Engineering Inc Fairfield NJ.....	201-228-032
Doric Scientific Div Emerson Elec Co San Diego CA.....	619-565-441
Electro Standards Lab Inc Providence RI.....	401-943-116
Elzee Metal Products Co Inc Brooklyn NY.....	718-435-500
Engineered Plastics Inc Gibsonville NC.....	919-449-412
Equipto Enclosure Systems Div Equipto Elctns Corp Aurora IL.....	312-897-469
Falstrom Co Passaic NJ.....	201-777-001
Fischer & Porter Co Warminster PA.....	215-674-600
The Foxboro Co Foxboro MA.....	617-543-875
Glax-Ban Div Mark IV Industries Tonawanda NY.....	716-694-507
Grimes Div Midland Ross Corp Urbana OH.....	513-652-143
Hallmark Nameplate Inc Farmingdale NY.....	800-645-950
Harva Co Inc Schoharie NY.....	518-295-810
Hoffman Engineering Co Div Fed Cartridge Corp Anoka MN.....	612-421-224
Honeycomb Systems Inc Biddeford ME.....	207-282-152
Honeywell Process Control Div Ft Washington PA.....	215-641-300
Jan Hardware Mfg Co Inc Long Island City NY.....	212-361-080
Kato Engineering Co Div Reliance Elec Mankato MN.....	507-625-401
K C Industries Inc Cambridge NE.....	308-697-471
Kirk & Blum Mfg Co Cincinnati OH.....	513-351-140
LaFrance Corp Philadelphia PA.....	215-365-800

ake Shore Electric Corp Bedford OH.....	216-232-0200
ear Siegler Inc Instrument Div	
Grand Rapids MI.....	616-241-7000
etaphoto Div Horizons Rsch Inc	
Cleveland OH.....	216-475-0555
iller Co Inc W A Quososs ME.....	207-864-3344
obil Electronics Inc Anderson IN.....	317-642-7976
eal Feay Co Goleta CA.....	805-967-4521
ES Inc Carpentersville IL.....	312-426-5900
mega Engineering Inc Stamford CT.....	203-359-1660
ptima Div Scientific-Atlanta Inc Tucker GA.....	404-939-6340
ac-Tec Corp Sub LaFrance Corp	
Philadelphia PA.....	215-365-8400
analographic Corp West Caldwell NJ.....	201-227-1500
anetec Inc Santa Clara CA.....	408-496-1175
lasti-Glas Molded Products Inc Trenton NJ.....	609-587-1188
recision Crafts Inc La Crescenta CA.....	213-248-3211
remier Metal Products Co Bronx NY.....	212-993-9200
remier Metal Products Co Fontana CA.....	714-829-3089
uleo Electronics Inc Lynbrook NY.....	516-599-4875
elliance Electric Co Cleveland OH.....	800-245-4497
ager Hingham MA.....	617-749-6700
akas Inc Baltimore OH.....	614-862-4114
cientific-Atlanta Inc Atlanta GA.....	404-441-4000
elo Metal Products Inc Hawthorne NJ.....	201-427-9700
orenson Lighted Controls Inc Hartford CT.....	203-527-3092
trandberg Engineering Labs Inc	
Greensboro NC.....	919-274-3775
trongbox Los Angeles CA.....	213-204-0472
chmar Corp Los Angeles CA.....	213-478-0046
nifab Inc Hampstead NH.....	603-329-8205
ebbb Co Jervis B Farmington Hills MI.....	313-553-1220
vestberg Mfg Inc Sonoma CA.....	707-938-2121
ro Corp Burbank CA.....	818-846-4191

PANELS—JACK

See Jack Panel Assemblies; Jack Panels

PANELS—PLASTIC, EDGE LIGHTED

ANELTEC INC SANTA CLARA CA.....	408-496-1175
ergquist Co Minneapolis MN.....	612-835-2322
evco Engineering Inc Fairfield NJ.....	201-228-0321
talight Corp Brooklyn NY.....	718-497-7600
rake Industries Inc Austin TX.....	512-251-2231
rimes Div Midland Ross Corp Urbana OH.....	513-652-1431
allmark Nameplate Inc Farmingdale NY.....	800-645-9502
omalite Inc Wilmington DE.....	302-652-3686
orry Electronics Co Seattle WA.....	206-281-1300
VC Industries Inc Co-Ord Switch Div	
Freeport NY.....	516-868-1900
etaphoto Div Horizons Rsch Inc	
Cleveland OH.....	216-475-0555
anetec Inc Santa Clara CA.....	408-496-1175
ansicoll Inc Worcester PA.....	215-277-1300
nifab Inc Hampstead NH.....	603-329-8205

PANELS—RELAY RACK

JD INDUSTRIES INC WILLOUGHBY OH.....	216-946-3200
REMIER METAL PRODUCTS CO	
BRONX NY.....	212-993-9200
ADV PG 51	
REMIER METAL PRODUCTS CO	
FONTANA CA.....	714-829-3089
ADV PG 51	
AGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
ROMPETER ELECTRONICS INC	
WESTLAKE VILLAGE CA.....	818-707-2020
palon Precision Mfg Corp Bronx NY.....	212-589-5682
DC Telecommunications Minneapolis MN.....	612-835-6800
mco Engineering Co Schiller Park IL.....	312-671-6670
pahouser-Elcom Inc Watertown MA.....	617-924-1505
TACS Corp Oxford PA.....	215-932-3005
JD Industries Inc Willoughby OH.....	216-946-3200
nassis Trak Div General Devices Co Inc	
Indianapolis IN.....	317-897-7000
nurchill Corp Melrose MA.....	800-225-3932
ommunications Equipment Co Inc	
Glen Arbor MI.....	616-334-3081
etronic Enclosures Div Wyle Labs	
Pennsauken NJ.....	609-665-6810
mcor Products/Crenlo Inc Rochester MN.....	507-289-3371
eneral Kinetics Inc Rockville MD.....	301-881-2044
ammond Mfg Co Inc Buffalo NY.....	716-894-5710
C Industries Inc Cambridge NE.....	308-697-4711
eds & Northrup Instruments	
North Wales PA.....	215-643-2000
etaphoto Div Horizons Rsch Inc	
Cleveland OH.....	216-475-0555
obil Electronics Inc Anderson IN.....	317-642-7976
anal Feay Co Goleta CA.....	805-967-4521
analographic Corp West Caldwell NJ.....	201-227-1500
remier Metal Products Co Bronx NY.....	212-993-9200
remier Metal Products Co Fontana CA.....	714-829-3089
ager Hingham MA.....	617-749-6700
hroff Inc Warwick RI.....	401-732-3770
cientific-Atlanta Inc Atlanta GA.....	404-441-4000
lo Metal Products Inc Hawthorne NJ.....	201-427-9700
rongbox Los Angeles CA.....	213-204-0472
ruthers-Dunn Inc Pitman NJ.....	609-589-7500
omputer Electronics Inc	
Westlake Village CA.....	818-707-2020
nt-Rak Div General Devices Co Inc	
Indianapolis IN.....	317-897-7000
el Controls Inc Mishawaka IN.....	219-259-7804

ANORAMIC EQUIPMENT

See Adapters—Panoramic;

Receivers—Panoramic

r addresses, phones & sales offices, see green pages

PAPER—CAPACITOR

Jonesville Paper Tube Corp Jonesville MI.....	517-849-9963
Keene Corp Laminates Div	
East Providence RI.....	401-434-2340
Schweitzer Div Kimberly-Clark Corp Lee MA.....	513-243-1000

PAPER—DRAFTING

See Drafting Supplies

PAPER—FACSIMILE

See Facsimile Equipment

PAPER—GRAPH & GRAPHIC
RECORDING

See Graph Paper

PAPER—INSULATING (INCL.
FISHPAPER)

Asheville-Schoonmaker Mica Co	
Newport News VA.....	804-244-7311
Cottrell Paper Co Inc Rock City Falls NY.....	518-885-1702
Essex Group/IWI Ft Wayne IN.....	219-461-4000
Fibre Materials Corp Plainville NY.....	516-349-1660
Keene Corp Laminates Div	
East Providence RI.....	401-434-2340
Mosinee Paper Corp Pulp & Paper Div	
Mosinee WI.....	715-693-2111
Penn Fibre & Specialty Co Philadelphia PA.....	215-288-7366
Precision Paper Tube Co Wheeling IL.....	312-537-4250
Sohio Engineered Materials Co	
Niagara Falls NY.....	716-278-2000
Wilmington Fibre Specialty Co New Castle DE.....	302-328-7525

PAPER—THERMAL

Appleton Papers Inc Appleton WI.....	414-734-9841
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PAPER PARTS—STAMPINGS &
PUNCHINGS

Asheville-Schoonmaker Mica Co	
Newport News VA.....	804-244-7311
Auburn Mfg Co Middletown CT.....	203-346-6877
Fibre Materials Corp Plainville NY.....	516-349-1660
Penn Fibre & Specialty Co Philadelphia PA.....	215-288-7366
Precision Paper Tube Co Wheeling IL.....	312-537-4250
Seastrom Mfg Co Inc Glendale CA.....	213-245-9121
Sjoberg & Son Inc Cranston RI.....	401-461-8220

PAPER TAPE MECHANISMS

A C D Corp Dayton OH.....	513-222-2600
Arvey Corp Chicago IL.....	312-463-1400
Data Specialties Inc Northbrook IL.....	312-564-1800
Ghielmetti Inc Los Angeles CA.....	213-463-5111
GNT Automatic Inc Waltham MA.....	617-890-3305
Remex CAM Oper/Ex-Cell-O Corp	
Anaheim CA.....	714-535-4160
Teleterminal Corp Greenland NH.....	603-431-1200
TTS (Telecom Terminal Sys) Inglewood CA.....	213-641-8111
United Mineral & Chemical Corp	
New York NY.....	212-966-4330
Wire Graphics Inc Farmingdale NY.....	516-293-1525

PAPER TAPE PUNCHES—DIGITAL

A C D Corp Dayton OH.....	513-222-2600
Addmaster Corp San Gabriel CA.....	818-285-1121
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
AT & T Teletype Corp Skokie IL.....	312-982-2000
Chalco Engineering Corp Gardena CA.....	213-321-0121
Data Specialties Inc Northbrook IL.....	312-564-1800
Decitek Corp Hopkinton MA.....	617-435-6931
Facit Inc Merrimack Pk NH.....	603-424-8000
GEN/COMP Inc Canton MA.....	617-828-2008
Ghielmetti Inc Los Angeles CA.....	213-463-5111
GNT Automatic Inc Waltham MA.....	617-890-3305
Leupold & Stevens Inc Beaverton OR.....	503-646-9171
Remex CAM Oper/Ex-Cell-O Corp	
Anaheim CA.....	714-535-4160
Teleterminal Corp Greenland NH.....	603-431-1200
Teletype Corp Skokie IL.....	312-982-2000
TTS (Telecom Terminal Sys) Inglewood CA.....	213-641-8111
Wire Graphics Inc Farmingdale NY.....	516-293-1525

PAPER TAPE READERS—DIGITAL
(EXCEPT COMPUTER MEMORIES)

SUPERIOR ELECTRIC CO THE BRISTOL CT.....	203-582-9561
A C D Corp Dayton OH.....	513-222-2600
Addmaster Corp San Gabriel CA.....	818-285-1121
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
AT & T Teletype Corp Skokie IL.....	312-982-2000
Chalco Engineering Corp Gardena CA.....	213-321-0121

Data Specialties Inc Northbrook IL.....	312-564-1800
Decitek Corp Hopkinton MA.....	617-435-6931
Facit Inc Merrimack Pk NH.....	603-424-8000
GEN/COMP Inc Canton MA.....	617-828-2008
Ghielmetti Inc Los Angeles CA.....	213-463-5111
GNT Automatic Inc Waltham MA.....	617-890-3305
HEI Inc Victoria MN.....	612-443-2500
Leupold & Stevens Inc Beaverton OR.....	503-646-9171
Remex CAM Oper/Ex-Cell-O Corp	
Anaheim CA.....	714-535-4160
Superior Electric Co The Bristol CT.....	203-582-9561
Teleterminal Corp Greenland NH.....	603-431-1200
Teletype Corp Skokie IL.....	312-982-2000
Wire Graphics Inc Farmingdale NY.....	516-293-1525

PAPER TAPES (COMPUTER, CONTROL,
TELEPRINTER & SIMILAR TYPES
ONLY)

Arvey Corp Chicago IL.....	312-463-1400
Data Specialties Inc Northbrook IL.....	312-564-1800
Keene Corp Laminates Div	
East Providence RI.....	401-434-2340
Remex CAM Oper/Ex-Cell-O Corp	
Anaheim CA.....	714-535-4160
Teleterminal Corp Greenland NH.....	603-431-1200
TTS (Telecom Terminal Sys) Inglewood CA.....	213-641-8111
Wire Graphics Inc Farmingdale NY.....	516-293-1525

PARAMAGNETIC AMPLIFIERS

See Amplifiers, R-F—Maser

PARAMETRIC AMPLIFIERS

See Amplifiers, R-F—Parametric

PARTICLE ACCELERATORS

See Accelerators

PARTICLE ANALYZERS

Ball Aerospace Systems Div Boulder CO.....	303-939-4000
Canberra Industries Inc Meriden CT.....	203-238-2351
EG & G Ortec Oak Ridge TN.....	615-482-4411
Gam Rad West Inc Garden Grove CA.....	714-564-0773
GCA/IC Systems Group Bedford MA.....	617-275-5400
Hiac/Royco Instruments Div Menlo Park CA.....	415-325-7811
Leeds & Northrup Instruments	
North Wales PA.....	215-643-2000
Macrodyn Inc Schenectady NY.....	518-356-3500
Mine Safety Appliances Co Pittsburgh PA.....	412-273-5175
RIL Electronics Inc Warrington PA.....	215-343-5075
TSI Inc St Paul MN.....	612-483-0900
Cari Zeiss Inc Thornwood NY.....	914-747-1800

PARTICLE COUNTERS

See Counters—Nuclear

PARTS—SPECIAL

See Components & Parts Reference List

PATCHBOARDS

See Computer Patchboards

PATCHCORDS

See Cords

PC BOARDS

See Printed Circuit Listings

PERFORATED METALS

See Metals

PERFORATORS

See Key punches; Paper Tape Perforators;

Machines, PC Production—Punching

PHASED ARRAYS

See Antennas—Microwave

PHASE INSTRUMENTS

See Comparators; Indicators; Meters; Standards

PHASE NETWORKS

See Microwave Phased Array Beam Steering

Networks; Networks—Phasing

PHASE SHIFTERS (EXCEPT MICROWAVE)

See Also Networks

ESC ELECTRONICS CORP	
PALISADES PARK NJ	201-947-0400
HISONIC INC OLATHE KS	913-782-0012
JOHANSON MFG CORP BOONTON NJ	201-334-2676
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Douglas Randall Div Pawcatuck CT	203-599-2075
ESC Electronics Corp Palisades Park NJ	201-947-0400
Evans Electronics Berkeley CA	415-653-3083
Feedback Inc Berkeley Heights NJ	201-464-5181
Ferrite Control Co Div Micon Inc Brick NJ	201-458-3333
Hirose Electric USA Inc Chatsworth CA	818-709-1247
Hisonic Inc Olathe KS	913-782-0012
Johanson Mfg Corp Boonton NJ	201-334-2676
Lorch Electronics Corp Englewood NJ	201-569-8282
Merrimac Industries Inc West Caldwell NJ	201-575-1300
Ryan International Corp Columbus OH	614-885-3303
States Co Div Multi-Amp Corp Dallas TX	214-333-3201
Teledyne Microelectronics Los Angeles CA	213-870-9831
Vari-L Co Inc Denver CO	303-371-1560

PHASE SHIFTERS—MICROWAVE

See Microwave Phase Shifters

PH CONTROLS

See Controls—pH

PHENOLICS

See Plastics Listings; Printed Circuit Laminates

PHONOGRAPH CHANGERS

SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Aldshir Mfg Co Inc Mt Vernon NY	914-668-1297
Electronic Creations Co Inc	
Mount Vernon NY	914-OW9-2100
Emerson Radio Corp North Bergen NJ	201-854-4800
Shokai Far East Ltd Hartsdale NY	914-681-0700
Thomson CSF Inc White Plains NY	914-694-4450

PHONOGRAPH CROSSOVER NETWORKS

See Networks—Crossover

PHONOGRAPH NEEDLES

SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Aldshir Mfg Co Inc Mt Vernon NY	914-668-1297
Astatic Corp Conneaut OH	216-593-1111
Bruce Diamond Corp Attleboro MA	617-222-3755
Emerson Radio Corp North Bergen NJ	201-854-4800
General Ruby & Sapphire Corp	
New Port Richey FL	813-849-0638
Planstiel Waukegan IL	312-623-1360
Recon Corp Long Island City NY	718-392-6442
Shokai Far East Ltd Hartsdale NY	914-681-0700
Shure Brothers Inc Evanston IL	312-866-2200

PHONOGRAPH PICKUP CARTRIDGES

SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
AKG Acoustics Inc Stamford CT	203-348-2121
Aristo-Craft New York NY	212-924-4041
Astastic Corp Conneaut OH	216-593-1111
Planstiel Waukegan IL	312-623-1360
Shokai Far East Ltd Hartsdale NY	914-681-0700
Shure Brothers Inc Evanston IL	312-866-2200

PHONOGRAPH RECORDS—TEST RECORDINGS ONLY

Bruel & Kjaer Instruments Inc Marlboro MA	617-481-7000
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Shure Brothers Inc Evanston IL	312-866-2200

PHONOGRAPH SUBSYSTEMS (INCL. CHANGERS WITH AMPLIFIERS)

Electronic Creations Co Inc	
Mount Vernon NY	914-OW9-2100
Emerson Radio Corp North Bergen NJ	201-854-4800
MP Audio Corp Easton CT	203-268-2385
Sakata USA Corp Elk Grove Village IL	312-593-3211

PHONOGRAPH TURNTABLES

SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Audiotronics Corp North Hollywood CA	818-765-2645
Broadcast Electronics Inc Quincy IL	217-224-9600

Electronic Creations Co Inc	
Mount Vernon NY	914-OW9-2100
Emerson Radio Corp North Bergen NJ	201-854-4800
Shokai Far East Ltd Hartsdale NY	914-681-0700
Teledyne Acoustic Research Canton MA	617-769-4200
Thomson CSF Inc White Plains NY	914-694-4450

PHOSPHIDES

See Chemicals; Semiconductors

PHOSPHOR BRONZE

See Metals—Brass & Bronze; Wire—Bare

PHOSPHORS

See Chemicals—CRT Screen

PHOTOCELLS—EMITTER TYPE

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Automatic Timing & Controls Co	
King of Prussia PA	800-441-8245
Centronic Inc Mountainside NJ	201-233-7200
Hamamatsu Corp Middlesex NJ	201-469-6640
Leecraft Mfg Co Inc Long Island City NY	718-392-8800
Scientific Technology Inc Mtn View CA	415-965-0910
Silicon Sensors Inc Dodgeville WI	608-935-2707
Simco/Ramic Corp Medford OR	503-776-9800
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
TRW Optoelectronics Div Carrollton TX	214-323-2200
United Detector Technology Hawthorne CA	213-978-0516

PHOTOCELLS—SENSOR TYPE (INCL. PHOTOCONDUCTIVE)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
CLAIREX ELECTRONICS DIV CLAIREX CORP MT VERNON NY	914-664-6602
ADV PG 319	
EG&G VACTEC ST LOUIS MO	314-423-4900
ADV PG 317	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
SILONEX INC PLATTSBURGH NY	518-561-3160
ADV PG 318	
Advanced Detector Corp City of Industry CA	818-369-6886
AEG Corporation Somerville NJ	201-722-9800
Automatic Timing & Controls Co	
King of Prussia PA	800-441-8245
Centronic Inc Mountainside NJ	201-233-7200
Clairex Electronics Div Clairex Corp	
Mt Vernon NY	914-664-6602
De-Tec-Tronic Corp Elgin IL	312-695-9150
Ealing Corp South Natick MA	617-655-7000
EG & G Inc Electro-Optics Div Salem MA	617-745-3200
EG & G Vactec St Louis MO	314-423-4900
Hamamatsu Corp Middlesex NJ	201-469-6640
Hyde Park Electronics Inc Dayton OH	513-435-2121
Infrared Industries Inc Detector Div	
Orlando FL	305-282-7700
Leecraft Mfg Co Inc Long Island City NY	718-392-8800
Philips Electronic Comps & Mattis Div	
Eindhoven Netherlands	040791111
Pioneer Electric & Research Corp	
Forest Park IL	312-771-8242
Scientific Technology Inc Mtn View CA	415-965-0910
Semicoa Costa Mesa CA	714-979-1900
Sensor Technology Inc Chatsworth CA	213-882-4100
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sigma Instruments Inc Fisher Pierce Div	
Braintree MA	617-843-5000
Silicon Sensors Inc Dodgeville WI	608-935-2707
Silonex Inc Plattsburgh NY	518-561-3160
Simco/Ramic Corp Medford OR	503-776-9800
Skan-A-Matic Corp Elbridge NY	315-689-3961
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
TRW Optoelectronics Div Carrollton TX	214-323-2200
United Detector Technology Hawthorne CA	213-978-0516

PHOTOCELLS—PHOTOVOLTAIC (INCL. SOLAR CELLS)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
CLAIREX ELECTRONICS DIV CLAIREX CORP MT VERNON NY	914-664-6602
ADV PG 319	
EG&G VACTEC ST LOUIS MO	314-423-4900
ADV PG 317	
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
SILONEX INC PLATTSBURGH NY	518-561-3160
ADV PG 318	
TAUBER ELECTRONICS INC SAN DIEGO CA	619-274-7242
Advanced Detector Corp City of Industry CA	818-369-6886
AEG Corporation Somerville NJ	201-722-9800
Centronic Inc Mountainside NJ	201-233-7200
Clairex Electronics Div Clairex Corp	
Mt Vernon NY	914-664-6602
Computer Optical Products Inc	
Chatsworth CA	818-882-0424
Crystal Systems Inc Salem MA	617-745-0088
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dionics Inc Westbury NY	516-997-7474
Ealing Corp South Natick MA	617-655-7000
EG & G Inc Electro-Optics Div Salem MA	617-745-3200

EG & G Vactec St Louis MO	314-423-4900
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Hamamatsu Corp Middlesex NJ	201-469-6640
Hydrocap Corp Miami FL	305-696-2500
Infrared Industries Inc Detector Div	
Orlando FL	305-282-7700
Keene Corp Laminates Div	
East Providence RI	401-434-2340
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
Mouser Electronics Mansfield TX	817-483-0165
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA	818-781-0500
Optical Coating Lab Inc Santa Rosa CA	707-545-6440
Philips Electronic Comps & Mattis Div	
Eindhoven Netherlands	040791111
Sensor Technology Inc Chatsworth CA	213-882-4100
Shokai Far East Ltd Hartsdale NY	914-681-0700
Siemens Corp Optoelectronics Div	
Cupertino CA	408-257-7910
Silicon Sensors Inc Dodgeville WI	608-935-2707
Silonex Inc Plattsburgh NY	518-561-3160
Solarex Corp Rockville MD	301-948-0200
Spectrolab Inc Sylmar CA	818-365-4610
Tauber Electronics Inc San Diego CA	619-274-7242
Telefunken electronic Heilbronn West Germany	07131 8820
United Detector Technology Hawthorne CA	213-978-0516
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

PHOTOCOPY MACHINES

See Machines—Copying

PHOTODIODES

See Diodes

PHOTOELECTRIC EQUIPMENT

See Choppers—Light

Controls

Counters

Display Listings

Gages—Dimension

Infrared Listings

Optical Listings

Optoelectronic Listings

Power Generators—Photoelectric

PHOTOETCHING SERVICES

See Metal Parts—Electroformed; Printed Circuits

PHOTOFLASH EQUIPMENT—ELECTRONIC

TNR TECHNICAL INC DEER PARK NY	516-242-4800
EG & G Inc Electro-Optics Div Salem MA	617-745-3200
Gen Rad Inc Waltham MA	617-369-4400
Laboratory Products Inc Hyde Park MA	617-364-6260
Polaroid Corp Cambridge MA	617-577-2000
Recon/Optical Inc Barrington IL	312-381-2400
TNR Technical Inc Deer Park NY	516-242-4800

PHOTOGRAPHIC FILM RECORDERS

See Recorders—Film

PHOTOGRAPHIC FILMS (EXCEPT PHOTOMASK)

TNR TECHNICAL INC DEER PARK NY	516-242-4800
Eastman Kodak Co Rochester NY	716-724-4000
Ethomatic Inc Waltham MA	617-893-2000
Polaroid Corp Cambridge MA	617-577-2000
TNR Technical Inc Deer Park NY	516-242-4800

PHOTOMASK FILM

Dynachem Corp Tustin CA	714-730-4200
Keuffel & Esser Co Parsippany NJ	201-428-7000
Nitto Denko America Inc Port Washington NY	516-484-9700
Optilab Inc Phoenix AZ	602-271-0392
Photronic Labs Inc Brookfield Center CT	203-775-0460
Ullano Corp Brooklyn NY	718-643-1770

PHOTOMASKING CAMERAS

See Cameras

PHOTOMASKING DIGITIZERS

See Digitizers

- Photoconductive Cells
- Interrupter Switches
- Phototransistors and Photodarlington
- Selenium Photovoltaic Cells
- Vactrols (Opto-Isolators)
- Standard Silicon and Blue-Enhanced Photovoltaic Cells, Blue-Enhanced Photodiodes, and PIN Photodiodes



EG&G VACTEC

INDUSTRY'S BROADEST OPTOELECTRONIC LINE

RETROREFLECTIVE & INTERRUPTER SWITCHES (SLOTTED)

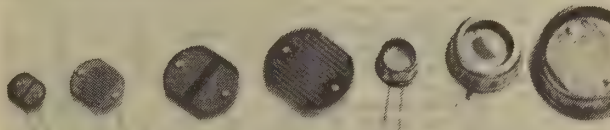
Standard and custom optical switches—infrared GaAs LED and silicon photo-transistor interrupters available in sealed housing of I-R transmitting plastic or opaque plastic with open apertures. Three retro styles: arrow, TO-18, and cubic.



60% Actual Size

PHOTOCONDUCTIVE CELLS

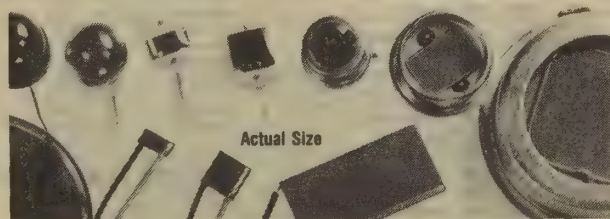
Vactec light dependent resistors (LDR's) are available in three hermetic enclosures (TO-18, TO-5, TO-8) and 4 ceramic types. Ceramic types have automatically inserted wires which insure perfect contact integrity. Six materials of CdS, CdSe and CdSe-CdS mixtures with spectral response peaks from 565-735 nm. Each material has a variety of sensitivities to satisfy all requirements.



Actual Size

SILICON PHOTOVOLTAIC CELLS

Three processes: BLUE ENHANCED, LOW CAPACITANCE, STANDARD SOLAR. All available in a variety of hermetic, ceramic, as chips, or with flying leads. The BLUE ENHANCED cells are unique large area detectors with high U-V sensitivity to as low as 200 nm. Almost non-existent U-V enhancement effect with stability equivalent to high quality photodiodes. LOW CAPACITANCE cells have fast response less than 15μs with 10KΩ load. The high shunt impedance is desirable for driving amplifiers. SOLAR cells have high V_{oc} at low illumination (typ 200mV at .05mW/cm²). Linear over wide illumination range.



Actual Size

PHOTOTRANSISTORS — LED'S — PHOTODARLINGTONS — LIGHT ACTIVATED SWITCHES (LAS)

Phototransistors and photodarlington are NPN passivated—4 chip sizes of 25, 40, 50, and 60, mil square in TO-18, ceramic, coaxial, and lateral (side looking) packages. High light current at very low drive current ideal for instrumentation applications. GaAs I-R LED's with excellent stability in TO-18, T-1, T-1½, lateral packages. LAS (light activated switches) have high sensitivity with Schmitt Trigger output. New—high power GaAlAs I-R LED's in TO-18, T-1, T-1½ packages.



Actual Size

PHOTODIODES

BLUE ENHANCED photodiodes are extremely low dark current devices with excellent response in the U-V. Less than 10pA (I_D) for small chips. Large area diodes (VTB5051) 14.8mm² active area with 1.2A/(W/cm²) at 365nm. and I_D of 250pA max. FAST photodiodes have low capacitance. Use with reverse bias for fast response time and excellent linearity. Ideal for remote I-R sensor digital controls.



Actual Size

VACTROLS

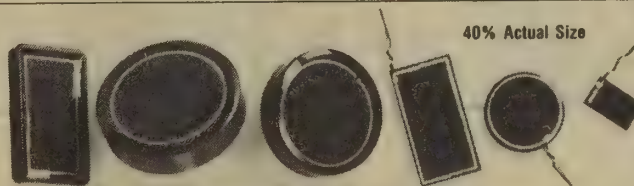
Optical couplers using LED's, neons, or incandescent lamps as the emitter and Vactec photoconductive cells (LDR's) as the detector. For noiseless switching and signal monitors for audio. Neon types to sense telephone ring. LED types for triac gate control. Incandescent types for low cost true RMS sensor as voltage regulator or control of constant wattage heater. Five package types include 2 hermetic.



Actual Size

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Large area detectors for direct meter drive or in conjunction with amplifier. Spectral response peaks at 575 nm and is close to visible response. Available with integral #102 filter to match standard observer curve (CIE). Available in many flat or round cells with or without leads—also in 9 package styles including 2 hermetic.



40% Actual Size

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CUSTOMIZED OPTOELECTRONIC ASSEMBLIES**

CdS & CdSe PHOTOCELLS

Cell Type No.	Typical 1.0 Ftc. Res. K Ω	Min. Dark Res. M Ω	Max. Peak Volt.	Max. Power MW	Description
NSL-3120	75	100	70	50	CdSe Photoconductive Cell in Hermetic Glass and Metal. TO-18 CdS versions also available.
NSL-3130	30	100	70	50	
NSL-3140	14	100	70	50	
NSL-3150	550	1000	250	50	
NSL-3180	280	1000	250	50	
NSL-3170	110	1000	250	50	CdSe Photoconductive cell in TO-5 plastic coated "open pill" package. Also available in CdS material.
NSL-3180	50	500	120	50	
NSL-3812	43	10	80	100	
NSL-3822	18.6	10	80	100	
NSL-3832	8	10	80	100	
NSL-3842	3.5	10	80	100	1" CdS Photoconductive Cell in Hermetic Glass and Metal case 1.25" diameter.
NSL-3852	330	100	320	100	
NSL-3862	155	100	320	100	
NSL-3872	66	100	320	100	
NSL-4440	120	50	1000	1000	
NSL-4450	28.0	15	1000	1000	1" CdS Photoconductive Cell in plastic coated "open pill" package.
NSL-4460	11.4	5	1000	1000	
NSL-4470	5.5	0.5	1000	1000	
NSL-4442	120	10	1000	500	
NSL-4452	26	1.5	1000	500	
NSL-4462	11.4	0.5	1000	500	CdS Photoconductive Cell in Hermetic Glass and Metal 1/4" dia case Hermetic CdSe versions also available.
NSL-4472	5.5	0.2	1000	500	
NSL-4610	65	80	80	100	
NSL-4620	28	20	80	100	
NSL-4630	12	2.7	80	100	
NSL-4640	5.2	0.7	80	100	CdS Photoconductive Cell in Hermetic Glass and Metal TO-5 Plastic coated "open pill" versions also available
NSL-4650	550	180	250	100	
NSL-4660	230	20	250	100	
NSL-4670	100	4	250	100	
NSL-4810	43.0	65	120	200	
NSL-4820	18.6	15	120	200	TO-8 Hermetic CdS/Se Photoconductive Cell.
NSL-4830	8	1.8	120	200	
NSL-4840	3.5	0.25	120	200	
NSL-4850	330	200	320	200	
NSL-4860	155	130	320	200	
NSL-4870	65	20	320	200	TO-8 CdSe Photocon- ductive Cell in Plastic Case, Glass Lens and Plastic Coated "Open Pill" and CdS versions also available
NSL-2930	1.7	0.5	80	500	
NSL-2940	.75	0.1	80	500	
NSL-2970	7.5	5.0	250	500	
NSL-3921	4.0	2	80	200	
NSL-3931	1.7	2	80	200	CdS Photoconductive Cell in Hermetic Glass and Metal TO-8. Hermetic CdSe version also available
NSL-3941	0.75	2	80	200	
NSL-3951	40.0	5	320	200	
NSL-3961	17.0	5	320	200	
NSL-3971	7.5	5	320	200	
NSL-4920	14.0	2.0	80	500	CdS Photocell in 0.5" lensed Plastic case
NSL-4930	1.7	0.4	80	500	
NSL-4940	0.75	0.05	80	500	
NSL-4950	40	30	320	500	
NSL-4960	17	4.0	320	500	
NSL-4970	7.5	0.5	320	500	CdS Photoconductive cell in hermetic TO-5 package. Two plastic encapsulated versions also available
NORP-11	20	2.5	320	250	
NORP-12	9	1	320	250	
NORP-13	4	0.5	320	250	
NSL-4512	43.0	5	120	100	
NSL-4522	18.6	1.5	120	100	0.5" Plastic case with Phosphor Coated Quartz window
NSL-4532	8	0.50	120	100	
NSL-4542	3.5	0.10	120	100	
NSL-4552	330	20	320	100	
NSL-4562	155	15	320	100	
NSL-4572	65	2	320	100	

PHOTODETECTOR LAMP/LED ASSEMBLIES

Module Type No.	Emitter			Detector			Description
	Current mA	Max. ON Res. Ω	Min. OFF Res. M Ω	Max. V _{OLTS}	Max. Power mW		
PL 1033-1	10	15	100	10	80	250	Phenolic .75" x .75" x .625"
PL 1036-1	10	15	400	50	320	250	Pin Leads for
PL 2H33-1	200	2	100	10	80	250	P.C. Board
PL 2H36-1	200	2	400	50	320	250	Mounting,
PL 5S33-1	25	250	10	80	250	250	(Matched, Multi-Detector Configurations available.)
PL 5S36-1	25	2000	100	320	250	250	
PLT 10384	10	15	250	10	80	100	Standard
PLT 10387	10	15	3000	50	320	100	tube
PLT 2H384	200	2	500	10	80	100	Axial Leads
PLT 2H387	200	2	10000	50	320	100	
PLS 5S380	25	250	10	80	100	100	Small tube.
PLS 5S387	25	4000	100	320	100	100	Axial leads
PLM 5S310	25	500	10	80	50	50	Miniature
PLM 5S317	25	5000	100	320	50	50	Axial leads

SILICON PLANAR PHOTODETECTORS

Cell Type No.	Min. Short Ct. μ A	Min. Open Ct. μ A	Dark Curr. nA @ 5V	Break- down Voltage (V)	Description
NSL 811	100	0.4	5	40	TO 18, Flat Window
NSL 812	310	0.4	5	40	TO 18, Low Lens
NSL 813	220	0.4	5	40	TO 18, High Lens
NSL 814	90	0.4	5	40	TO 52, Flat Window
NSL 815	240	0.4	5	40	TO 52, Low Lens
NSL 883	360	0.4	10	20	TO 5, Flat Window
NSL 893	800	0.4	20	10	TO 8, Flat Window

*At 500 Ftc. 2870 K Source

PIN PHOTODIODES

NSL Type No.	Light Current* mA	Dark Current nA	Rise Time nS	Fall Time nS	Description
NSL 530	0.3	10	3	6	TO 18 Package
NSL 580	1.5	20	5	8	TO 5

*At 500 Ftc (25 MW/cm²) 2870 K Source

UV SENSITIVE LDRs

Cell Type No.	Typical 1.0 Ftc. Res. K Ω	Min. Dark Res. M Ω	Max. Peak Volt.	Max. Power MW	Description
NSL 2129/3	1.7	0.2	80	200	0.5" Plastic case
NS 2129/6	17.0	1	320	200	with Phosphor Coated Quartz window

SILICON PHOTODIODES

Cell Type No.	Min. Short Curr. MA	Min. Open Ct. μ A	Dark Curr. μ A @ IV @ 25 C	Reverse Voltage Recom. Maximum	Description
NSL 701.1	0.30	0.35	3	5	1" x 2" Chip
NSL 801.1	0.325	0.275	1.5	10	Wire Leads
NSL 701.9	0.30	0.35	3	5	9 Element Cell 0.1" Spacing
NSL 702	0.6	0.35	5	5	2" x 2" Chip
NSL 802	0.65	0.275	2.5	10	Wire Leads
NSL 703	1.4	0.35	15	5	2" x 4" Chip
NSL 803	1.5	0.275	7.5	10	Wire Leads
NSL 705	4.5	0.35	25	5	76" x 354"
NSL 805	4.77	0.275	12.5	10	Chip Wire Leads
NSL 706	2.9	0.35	20	5	4" x 4" Chip
NSL 806	3.0	0.275	10	10	Wire Leads
NSL 707	3.3	0.35	25	5	2" x 1" Chip
NSL 807	3.5	0.275	12.5	10	Wire Leads
NSL 708	1.3	0.35	15	5	1" x 1" Chip
NSL 808	1.4	0.275	7.5	10	Wire Leads
NSL 710	0.125	0.4	1	5	TO 18 Package
NSL 810	0.150	0.275	0.5	10	
NSL 751	1.4	0.35	2.0	5	0.5" dia
NSL 851	1.5	0.275	10	10	Epoxy Package
NSL 781	0.28	0.35	5	5	Hermetic TO-5
NSL 881	0.3	0.275	2.5	10	Case
NSL 782	0.42	0.35	5	5	
NSL 791	0.60	0.35	5	5	Hermetic TO-8
NSL 792	1.1	0.35	15	5	Case
NSL 8932	0.65	0.275	0.5	10	0.5" Dia. Ceramic
NSL-6138	100	.38	3	5	.05" x .125" Chip
NSL-6122	110	.33	2	10	.05" x .125" Chip
NSL-6134	150	.40	3	5	.130" x .150" Dual Chip

*At 500 Ftc (25 MW/cm²) 2870 K Source

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Clairex Photoconductive Cells

Part No.	Diam. X Length (inches)	Resistance @ 2 ftc $\pm$ 33-1/3%	Minimum resistance ratio from 2 ftc to Dark within 5 sec.	Maximum voltage	Power Dissipation @ 25°C (mw)
CL5M9M	55 X .18	11K	1:1000	250	2000 500 ¹
CL709L	36 X .18	28K		100	125
CL909L	21 X .15	100K		100	50

Type 9 CdS, peak spectral response 5500 angstroms combines high speed with extreme temperature stability and high linearity.

CL5M3	55 X .18	7.2K	1 10,000	250	2000 500 ¹
CL603	25 X .5	133K		300	75
CL603A	25 X .5	75K		300	75
CL603AL	25 X .5	3.5K		170	75
CL703	36 X .18	133K		300	125
CL703A	36 X .18	67K		300	125
CL703L	36 X .18	2.7K		100	125
CL903	21 X .15	133K		250	50
CL903A	21 X .15	67K		250	50
CL903L	21 X .15	6.0K		100	50

Type 3 CdSe, peak spectral response 7350 angstroms, fast response, and very high light-to-dark resistance ratio. Can be used for high speed switching or counting. Sensitive to near infra red. For use with incandescent or neon lamps.

CL5M4	55 X .18	1.5K	1 400	250	2000 500 ¹
CL5M4L	55 X .18	0.25K		170	2000 500 ¹
CL604	25 X .5	30K		300	75
CL604L	25 X .5	1.5K		170	75
CL704	36 X .18	30K		300	125
CL704L	36 X .18	0.6K		100	125
CL904	21 X .15	30K		250	50
CL904L	21 X .15	2K		100	50

Type 4 CdSe, peak spectral response 6900 angstroms, lowest resistance photocells available. Can be used for "on-off" applications when low resistance is desired. For use with incandescent or neon lamps.

CL5M5	55 X .18	9K	1 100	250	2000 500 ¹
CL5M5L	55 X .18	1.5K		170	2000 500 ¹
CL605	25 X .5	166K		300	75
CL605L	25 X .5	7.5K		170	75
CL705	36 X .18	166K		300	125
CL705L	36 X .18	3.3K		100	125
CL905	21 X .15	166K		250	50
CL905L	21 X .15	10K		100	50

Type 5 CdS, peak spectral response 5500 angstroms (closely matches the human eye), most stable, lowest memory photocell available. Can be used in light measuring applications and precision low speed switching. For use with incandescent, fluorescent or neon lamps.

CL705HL	36 X .18	28K	1:1000	100	125
CL905HLL	21 X .15	15K		60	50
CL905HL	21 X .15	100K		100	50
CL905HN	21 X .15	700K		100	50

Type 5H CdS, peak spectral response 5500 angstroms (closely matches the human eye). Combines high speed, stability, linearity, and uniform color temperature response. Footnote 1: with and without heat sink.

Part No.	Diam. X Length (inches)	Resistance @ 2 ftc $\pm$ 33-1/3%	Minimum resistance ratio from 2 ftc to Dark within 5 sec.	Maximum voltage	Power Dissipation @ 25°C (mw)
CL707H	36 X .18	500K	1:1000	300	125
CL707HM	36 X .18	100K		250	125
CL907H	21 X .15	600K		250	50
CL907HN	21 X .15	300K		100	50
CL907HL	21 X .15	24K		100	50

Type 7H CdS peak Spectral response 6200 angstroms. Very fast decay time coupled with low resistance and high linearity. Ideal for beam breaking applications.

CL5M7	55 X .18	7.2K	1.300	250	2000 500 ¹
CL607	25 X .5	133K		300	75
CL707	36 X .18	133K		300	125
CL707L	36 X .18	2.7K		100	125
CL907	21 X .15	133K		250	50
CL907N	21 X .15	66K		100	50
CL907L	21 X .15	6K		100	50

Type 7 CdS, peak spectral response 6150 angstroms, moderate speed and ratio. Can be used in general beam breaking applications. For use with incandescent, neon or fluorescent lamps.

Part No.	Diam. X Length (inches)	Resistance @ 2 ftc $\pm$ 33-1/3%	Minimum resistance ratio from 2 ftc to Dark within 5 sec.	Maximum voltage	Power Dissipation @ 25°C (mw)	Type
CL704L/2	36 X .18	1.5K	1:400	100	125	4 CdSe
CL705/2	36 X .18	166K	1:100	300	125	5 CdS
CL705L/2	36 X .18	7.5K	1:100	100	125	5 CdS
CL705HL/2	36 X .18	6.7K	1:1000	100	125	5H CdS
CL709L/2	36 X .18	6.7K	1:1000	100	125	9 CdS

Plastic Encapsulated Photoconductive Cells

CL5P4L	430 X .130	0.45K		170	250	Type 4 CdSe
CL7P4L	283 X .075	1K		170	125	
CL9P4L	180 X .065	2K		100	50	
CL5P5	430 X .130	9K	1:100	250	250	Type 5 CdS
CL5P5M	430 X .130	6K		250	250	
CL5P5L	430 X .130	1.5K		170	250	
CL7P5	283 X .075	166K		300	125	Type 5H CdS
CL7P5L	283 X .075	3.3K		170	125	
CL9P5	180 X .065	166K		250	50	
CL9P5L	180 X .065	10K		100	50	Type 7H CdS
CL7P5HL	283 X .075	28K	1:1000	170	125	
CL9P5HL	180 X .065	100K		100	50	
CL7P7HL	283 X .075	10K	1:1000	170	125	Type 9 CdS
CL7P7HM	283 X .075	30K		400	125	
CL9P7HL	180 X .065	24K		100	50	
CL9P7HLL	180 X .065	4.5K		70	50	Type 9 CdS
CL5P9M	430 X .130	9K	1:1000	250	250	
CL7P9L	283 X .075	28K		170	125	
CL9P9L	180 X .065	100K		100	50	Type 9 CdS
CL9P9LL	180 X .065	15K		70	50	



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chem Products Co Sub Rohm & Haas Lincoln RI.....	401-723-2100
orton Performance Plastics Wayne NJ	201-696-4700
astronic Engineering Co Haverhill MA	617-372-7703
ss Co Milton Southampton PA	215-355-0200
S Plastic Corp Lima OH	419-228-2242

LASTIC BINS

See Bins & Trays

LASTIC BOXES

See Boxes

LASTIC CABINETS & CONSOLES

See Cabinets & Consoles

LASTIC CIRCUIT BOARDS

See Printed Circuit Listings

LASTIC COATING COMPOUNDS

See Coating Compounds

LASTIC FABRICS

See Fabric Parts; Fabrics

LASTIC FIBERS

See Fibers

LASTIC FILM—PIEZOELECTRIC

PENNWALT CORP KYNAR PIEZO GROUP KING OF PRUSSIA PA	215-337-6710
ADV PG 321	
innwalt Corp Kynar Piezo Group King of Prussia PA	215-337-6710

LASTIC FILMS (EXCEPT CAPACITOR)

PENNWALT CORP KYNAR PIEZO GROUP KING OF PRUSSIA PA	215-337-6710
ADV PG 321	
ociated Sales & Bag Co Milwaukee WI.....	414-272-2380
tosplisec Inc Woodside NY	718-429-0500
hemical Fabrics Corp Merrimack NH.....	603-424-9000

addresses, phones & sales offices, see green pages

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Dixon Industries Corp Bristol RI	401-253-2000
Dow Chemical Co Midland MI	517-636-1000
Eastman Chemical Products Inc Kingsport TN	800-327-8626
Engineered Plastics Inc Gibsonsville NC	919-449-4121
Erich Int'l Div All Pkg Machy & Supplies Corp Ronkonkoma NY	718-895-5870
Keene Corp Laminates Div East Providence RI	401-434-2340
Lamar Corp Clifton NJ	201-772-6262
Norton Performance Plastics Wayne NJ	201-696-4700
Olympic Plastics Co Los Angeles CA	213-837-5321
Optical Devices Inc Camarillo CA	805-987-8801
Pennwalt Corp Kynar Piezo Group King of Prussia PA	215-337-6710
Richmond Technology Inc Redlands CA	714-974-2111
U S Plastic Corp Lima OH	419-228-2242
Westlake Plastics Co Lenni PA	215-459-1000

PLASTIC FILMS—CAPACITOR

SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Chemical Fabrics Corp Merrimack NH	603-424-9000
Chomerics Laminates Inc Hudson NH	603-880-4807
Dixon Industries Corp Bristol RI	401-253-2000
Keene Corp Laminates Div East Providence RI	401-434-2340
Norton Performance Plastics Wayne NJ	201-696-4700
Sager Hingham MA	617-749-6700
Schweitzer Div Kimberly-Clark Corp Lee MA	413-243-1000
Shokai Far East Ltd Hartsdale NY	914-681-0700

PLASTIC FOAMS

(PREFOAMED)—CONDUCTIVE

3M CO STATIC CONTROL SYSTEMS AUSTIN TX	800-328-1368
Donray Co Cleveland OH	216-449-6450
3M Co Static Control Systems Austin TX	800-328-1368
Olympic Plastics Co Los Angeles CA	213-837-5321
Parsons Mfg Corp Menlo Park CA	415-324-4726
Plastics Systems Inc Marlboro MA	617-485-7390
Prevent Static Inc Pennsauken NJ	609-665-5595
Republic Packaging Corp Chicago IL	312-233-6530
Simco Co Inc Hatfield PA	215-822-2171
Wescorp Div DAL Indus Inc Mt View CA	415-969-7717
Wilson-Fiberfil International Evansville IN	800-457-3764

PLASTIC FOAMS

(PREFOAMED)—INSULATION GRADES

Donray Co Cleveland OH	216-449-6450
Dow Chemical Co Midland MI	517-636-1000
Emerson & Cuming Canton MA	617-828-3300
Technical Specialties Co Inc Spring Valley NY	914-425-9700
Tra-Con Inc Medford MA	617-391-5550
Wescorp Div DAL Indus Inc Mt View CA	415-969-7717
Wilson-Fiberfil International Evansville IN	800-457-3764

PLASTIC LENSES

See Antenna Lenses; Optical Lenses & Prisms

PLASTIC MOLDING COMPOUNDS

(EXCEPT POTTING COMPOUNDS OR FOLLOWING TYPES LISTED)

HUNTER PRODUCTS INC BRIDGEWATER NJ	201-526-8440
Ampacet Corp Mt Vernon NY	914-699-9100
Durez Div Occidental Chem Corp North Tonawanda NY	716-696-6000
Eastman Chemical Products Inc Kingsport TN	800-327-8626
Furane Products Co Los Angeles CA	818-247-6210
Glastic Co Cleveland OH	216-486-0100
Haysite Reinforced Plastics Erie PA	814-868-3691
Hunter Products Inc Bridgewater NJ	201-526-8440
LNP Corp Malvern PA	215-644-5200
Master Bond Inc Englewood NJ	201-343-8983
Nitto Denko America Inc Port Washington NY	516-484-9700
Olympic Plastics Co Los Angeles CA	213-837-5321
Parker Seal Group Lexington KY	606-269-2351
Plaskon Electronic Materials Inc Toledo OH	419-389-5600
Polymer Corp Reading PA	215-320-6600
Precision Paper Tube Co Wheeling IL	312-537-4250
Rawn Co Inc Spooner WI	715-635-8711
Rogers Corp Rogers CT	203-774-9605
Sterling Group Reichhold Chemicals Sewickley PA	412-766-7600
Tra-Con Inc Medford MA	617-391-5550
Wilson-Fiberfil International Evansville IN	800-457-3764

PLASTIC MOLDING

COMPOUNDS—EPOXY

HUNTER PRODUCTS INC BRIDGEWATER NJ	201-526-8440
Abbeon Cal Inc Santa Barbara CA	805-966-0810
Allaco Div Bacon Indus Inc Watertown MA	617-926-2550
Assemblyonics Inc Brentwood NY	516-231-4440

Bacon Industries Inc Watertown MA	617-926-2550
Crown Industrial Products Hebron IL	815-648-2424
Devcon Corp Danvers MA	617-777-1100
Dow Chemical Co Midland MI	517-636-1000
Emerson & Cuming Canton MA	617-828-3300
Formulated Resins Inc Greenville RI	401-949-2060
Furane Products Co Los Angeles CA	818-247-6210
Hardman Incorporated Belleville NJ	201-751-3000
Hightemp Resins Inc Stamford CT	203-357-7401
Hunter Products Inc Bridgewater NJ	201-526-8440
Hysol Div The Dexter Corp Industry CA	213-968-6511
Mark V Lab Inc East Granby CT	203-653-7201
Master Bond Inc Englewood NJ	201-343-8983
Mercero Div Metachem Resins Corp Warwick RI	401-828-4550
Nitto Denko America Inc Port Washington NY	516-484-9700
Plaskon Electronic Materials Inc Toledo OH	419-389-5600
Sterling Group Reichhold Chemicals Sewickley PA	412-766-7600
Tra-Con Inc Medford MA	617-391-5550

PLASTIC MOLDING

COMPOUNDS—EPOXY, ION-FREE AFTER MOLDING

Emerson & Cuming Canton MA	617-828-3300
Formulated Resins Inc Greenville RI	401-949-2060
Furane Products Co Los Angeles CA	818-247-6210
Hysol Div The Dexter Corp Industry CA	213-968-6511
Master Bond Inc Englewood NJ	201-343-8983
Plaskon Electronic Materials Inc Toledo OH	419-389-5600

PLASTIC MOLDING

COMPOUNDS—PHENOLIC

Durez Div Occidental Chem Corp North Tonawanda NY	716-696-6000
Hardman Incorporated Belleville NJ	201-751-3000
Mark V Lab Inc East Granby CT	203-653-7201
Parker Hannifin Corp Seal Group Lexington KY	606-269-2351
Plaskon Electronic Materials Inc Toledo OH	419-389-5600
Plastics Consulting & Mfg Co Camden NJ	609-963-7700
Rogers Corp Rogers CT	203-774-9605

PLASTIC MOLDING

COMPOUNDS—SILICONE, RIGID

See Also Silicone Rubber

HUNTER PRODUCTS INC BRIDGEWATER NJ	201-526-8440
Chomerics Inc Woburn MA	617-935-4850
Dow Corning Corp Midland MI	517-496-4000
Formulated Resins Inc Greenville RI	401-949-2060
General Electric Co Silicone Prods Div Waterford NY	518-237-3330
Hardman Incorporated Belleville NJ	201-751-3000
Hunter Products Inc Bridgewater NJ	201-526-8440
Multi-Flex Seals Inc Hackensack NJ	201-487-8080
Parker Hannifin Corp Seal Group Lexington KY	606-269-2351
Parker Seal Group Lexington KY	606-269-2351
SP America Inc San Jose CA	408-947-0311
Technical Specialties Co Inc Spring Valley NY	914-425-9700
Tra-Con Inc Medford MA	617-391-5550

PLASTIC MOLDS

See Molds; Potting Shells

PLASTIC PANELS—EDGE LIGHTED

See Panels

PLASTIC PARTS—CAST

INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA	818-991-9614
SADA ELETRONICA SPA PAVIA ITALY	382-4669 31
ADV PG 127	
Emerson & Cuming Canton MA	617-828-3300
Engineered Plastics Inc Gibsonsville NC	919-449-4121
Homalite Inc Wilmington DE	302-652-3686
International Instrumentation Inc Westlake Village CA	818-991-9614
Jan Hardware Mfg Co Inc Long Island City NY	212-361-0800
Meridian Lab Middleton WI	608-836-7571
Multi-Flex Seals Inc Hackensack NJ	201-487-8080
New York Testing Labs Inc Westbury NY	516-334-7770
Norton Co Worcester MA	617-853-1000
Norton Performance Plastics Wayne NJ	201-696-4700
Plastics Consulting & Mfg Co Camden NJ	609-963-7700
Polymer Corp Reading PA	215-320-6600
SADA Elettronica SpA Pavia Italy	382-4669 31
Serfilco Ltd Glenview IL	312-998-9300
SPC Technology Bensenville IL	312-766-6711
Twin Rivers Engineering Inc E Boothbay ME	207-633-2975
U S Plastic Corp Lima OH	419-228-2242
Upson Tools Inc Rochester NY	716-663-5373

PLASTIC PARTS—EXTRUDED (NOT STANDARD TUBING)

ZEUS INDUSTRIAL PRODUCTS INC RARITAN NJ	201-526-0
Accessories for Electronics Inc Baldwin NY	516-546-0
Amatom Electronic Hardware Co New Haven CT	203-397-3
Amphenol Products Lisle IL	312-983-3
Amrad Div Transm Mfg Co Ft Smith AR	501-452-3
Coaxco Inc Tualatin OR	503-692-2
DEK Inc St Charles IL	312-377-2
Dixon Industries Corp Bristol RI	401-253-2
Engineered Plastics Inc Gibsonsville NC	919-449-4
Kirkhill Rubber Co Brea CA	714-529-2
Kollmorgen Corp PCK Technology Div Melville NY	516-454-4
Molex Inc Lisle IL	312-989-4
New York Testing Labs Inc Westbury NY	516-334-7
Norton Co Worcester MA	617-853-1
Norton Performance Plastics Wayne NJ	201-696-4
Olympic Plastics Co Los Angeles CA	213-837-5
Parker Hannifin Corp Seal Group Lexington KY	606-269-2
Parker Seal Group Lexington KY	606-269-2
Plastics Consulting & Mfg Co Camden NJ	609-963-7
Plastiglide Mfg Corp Hawthorne CA	213-777-8
Polymer Corp Reading PA	215-320-6
Pyramid Paper Tube Co Wheeling IL	312-537-4
Raychem Corp Menlo Park CA	501-777-5
Republic Packaging Corp Chicago IL	312-233-6
Richco Plastic Co Chicago IL	312-539-4
Richmond Technology Inc Redlands CA	714-794-2
Rogers Corp ATD Lithonia GA	404-981-9
Serfilco Ltd Glenview IL	312-998-9
Shamban & Co W S Santa Monica CA	213-397-2
Shaw Plastics Corp Berkeley Heights NJ	201-464-1
SL Plastics Nazareth PA	215-759-0
SPC Technology Bensenville IL	312-766-6
Technical Specialties Co Inc Spring Valley NY	914-425-9
Tulox Plastics Corp Marion IL	317-664-5
Wescorp Div DAL Indus Inc Mt View CA	415-969-7
Westlake Plastics Co Lenni PA	215-459-1
Zeus Industrial Products Inc Raritan NJ	201-526-0

PLASTIC PARTS—LAMINATES & REINFORCED SHAPES

Accurate Electronics Corp Elyria OH	216-365-1
Armo Middleton OH	800-231-3
Atlas Fibre Co Skokie IL	312-465-1
Autosplice Inc Woodside NY	718-429-01
Best Mfg Co Montrose CO	303-249-81
Chomerics Laminates Inc Hudson NH	603-880-48
CoTech Inc Hatfield PA	215-822-81
Dixon Industries Corp Bristol RI	401-253-2
Doro Electronics Inc Paramount CA	415-636-51
ECS Composites Grants Pass OR	503-476-81
Electrical Insulation Co Div Workman Eln Prods Sarasota FL	813-371-2
Engineered Plastics Inc Gibsonsville NC	919-449-4
Fibre Materials Corp Plainview NY	516-349-1
Glastic Co Cleveland OH	216-486-0
Harva Co Inc Schoharie NY	518-295-8
Haysite Reinforced Plastics Erie PA	814-868-3
Heath Techn Aerospace Co Kent WA	206-872-7
Keene Corp Laminates Div East Providence RI	401-434-2
Kollmorgen Corp PCK Technology Div Melville NY	516-454-4
Laminated Fabricators San Bruno CA	415-583-5
Mantex Corp Oxford MI	313-628-9
Norplex LaCrosse WI	608-784-6
Norton Co Worcester MA	617-853-1
Norton Performance Plastics Wayne NJ	201-696-4
Ny-Glass Plastics Paramount CA	213-636-1
Parabram Inc Rancho Dominguez CA	213-537-1
Penn Fibre & Specialty Co Philadelphia PA	215-288-7
Plastics Consulting & Mfg Co Camden NJ	609-963-7
Polygon Co Walkerton IN	219-586-3
Polymer Corp Reading PA	215-320-6
Precision Paper Tube Co Wheeling IL	312-537-4
Republic Packaging Corp Chicago IL	312-233-6
Rogers Corp ATD Lithonia GA	404-981-9
Rostone Lafayette IN	317-474-2
Seton Name Plate Corp New Haven CT	203-488-0
Shamban & Co W S Santa Monica CA	213-397-2
Stevens Products Inc East Orange NJ	201-672-21
Synthane-Taylor Corp Oaks PA	215-666-03
Vernay Lab Inc Yellow Springs OH	513-767-72
Westlake Plastics Co Lenni PA	215-459-1

PLASTIC PARTS—MACHINED

CONCORD ELECTRONICS CORP NEW YORK NY	212-777-65
ENVIROMARINE SYSTEMS INC LAUREL MD	301-598-88
Accessories for Electronics Inc Baldwin NY	516-546-0
Accurate Electronics Corp Elyria OH	216-365-1
Alden Products Co Brockton MA	617-583-01
Amatom Electronic Hardware Co New Haven CT	203-397-3
Amphenol Products Lisle IL	312-983-3
Apahouser-Eicom Inc Watertown MA	617-924-15
Atlas Fibre Co Skokie IL	312-465-12
Berg Inc Winfred M East Rockaway NY	516-599-50
Best Mfg Co Montrose CO	303-249-81
Comco Plastics Inc Richmond Hill NY	718-849-90
Concord Electronics Corp New York NY	212-777-65
Dan-L Inc E Northport NY	516-757-80
D-Cemco Inc Burbank CA	213-849-63

K Inc St Charles IL	312-377-2575
Industries Corp Bristol RI	401-253-2000
Electronics Inc Paramount CA	213-636-5552
Electrical Insulation Co Div Workman Elctn Prods Inc	
Sarasota FL	813-371-2355
Engineered Plastics Inc Gibsonville NC	919-449-4121
Formal Systems Inc Laurel MD	301-598-8833
Formal Screw Products Inc Chicago IL	312-478-5744
Formal Carbon Chicago Div Mundelein IL	312-949-0850
Form-Plastics Inc Philadelphia PA	215-425-5500
Formed Plastics Inc Carle Place NY	516-ED4-2300
Form Precision Materials Danvers MA	617-777-1900
Forma Co Inc Schoharie NY	518-295-8101
Form Jones Electronics North Hollywood CA	213-875-0213
Forma Inc Wilmington DE	302-652-3686
Form Hardware Mfg Co Inc	
Form Island City NY	212-361-0800
Form Industries Corp Tuckahoe NY	914-793-0700
Form Electronics Temple City CA	818-445-2692
Form Fabricators San Bruno CA	415-583-5092
Form Laboratories Alachua FL	607-754-5800
Form Corp Oxford MI	313-628-9711
Form York Testing Labs Inc Westbury NY	516-334-7770
Form Industries Inc Farmingdale NY	516-249-7262
Form Co Worcester MA	617-853-1000
Form Performance Plastics Wayne NJ	201-696-4700
Glass Plastics Paramount CA	213-636-1035
Glass Plastics Inc Menlo Park CA	415-324-4726
Glass Fibre & Specialty Co Philadelphia PA	215-288-7365
Glass Consulting & Mfg Co Camden NJ	609-963-7700
Glass Engineering Co Haverhill MA	617-372-7703
Glass Co Walkerton IN	219-586-3122
Glass Corp Reading PA	215-320-6600
Glass Crafts Inc La Crosse WI	213-248-3211
Glass Corp ATD Lithonia GA	312-537-4250
Glass Corp ATD Lithonia GA	404-981-9830
Glass Co Milton Southampton PA	215-355-0200
Glass Inc New Albany IN	812-944-6733
Glass Corp Trumbull CT	203-372-4118
Glass Name Plate Corp New Haven CT	203-488-0085
Glass & Co W S Santa Monica CA	213-397-2195
Glass Carbon Products Fairfield NJ	201-227-2432
Glass Technology Bensenville IL	312-766-6711
Glass Pine Mica Co Inc Spruce Pine NC	704-765-4241
Glass Engineering Labs Inc	
Glassboro NC	919-274-3775
Glass-Taylor Corp Oaks PA	215-666-0300
Glass Tools Inc Rochester NY	716-663-5373
Glass Div Litton Systems Inc Van Nuys CA	818-786-9381
Glass Fibre Specialty Co New Castle DE	302-328-7525

PLASTIC PARTS—METALIZED

Formal Fabrics Corp Merrimack NH	603-424-9000
Formal Laminates Inc Hudson NY	603-880-4807
Form Mfg Co Inc Buffalo NY	716-894-5710
Form Corp Laminates Div	
Form Providence RI	401-434-2340
Form Corp PCK Technology Div	
Formville NY	516-454-4400
Form Slegier Inc Santa Monica CA	213-452-5444
Form Plast Electrochemicals Corp Bronx NY	212-328-2444
Glass Plastics Paramount CA	213-636-1035
Glass Mfg Corp Hawthorne CA	213-777-8108
Glass Co Milton Southampton PA	215-355-0200
Glass Corp York PA	717-843-9901
Glass Plastics Inc Tacoma WA	206-582-0644

PLASTIC PARTS—MOLDED

CONCORD ELECTRONICS CORP	
NEW YORK NY	212-777-6571
INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA	818-991-9614
SA ELECTRONICA SPA PAVIA ITALY	382-4669-31
DJ PG 127	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Form Corp Baltimore MD	301-666-1400
Form Electronics Inc Baldwin NY	516-466-1751
Form Electronics Corp Elyria OH	216-365-1211
Formed Input Devices Coeur d'Alene ID	208-765-8000
Form Products Co Brockton MA	617-583-0160
Form Systems Corp Greensboro NC	919-299-2294
Form Electronic Hardware Co	
Form Haven CT	203-397-3311
Form Unibox Products Riverside CA	714-686-1400
Form Products Lisle IL	312-983-3500
Form Div Transcon Mfg Co Ft Smith AR	501-452-3987
Form Middletown OH	800-231-3748
Form Inc Winfred M East Rockaway NY	516-599-5010
Form Inc Irvine CA	714-951-8808
Form Co Inc Delbert Pomona CA	213-628-8794
Form Plastics Inc Pittsburgh PA	412-787-2100
Form Mfg Co Ramona CA	619-789-0900
Form Assembly Corp Irvine CA	714-855-7887
Form Corp Elmhurst NY	718-429-5200
Form Mfg Svc Inc	
Form Bridgewater MA	617-580-0111
Form Electronics Corp New York NY	212-777-6571
Form Plastics Co Cleveland OH	216-861-5594
Form Inc E Northport NY	516-757-8000
Form Molding Co Harry Chicago IL	312-622-8966
Form Inc Burbank CA	213-849-6341
Form Mfg Co Inc Lexington OH	419-884-0071
Form Inc St Charles IL	312-377-2575
Form Computron Inc Pasadena CA	818-791-5600
Form Gray Co Centerville OH	513-433-7600
Form Industries Corp Bristol RI	401-253-2000
Form R Div Cabot Corp Indianapolis IN	317-872-1111
Form Kodak Co Rochester NY	716-724-4000
Form Corp Engineered Fasteners Div	
Form Cleveland OH	216-523-5361
Form Corp Cleveland OH	216-391-0444
Form Composites Grants Pass OR	503-476-8871
Form Industries Inc Rockford Div Rockford IL	815-397-5151
Form Electronics Inc Woodside NY	718-898-8300

Electronized Chemicals Co Wilmington MA	617-657-8030
Federal Screw Products Inc Chicago IL	312-478-5744
Fibre Materials Corp Plainville NY	516-349-1660
Flambeau Products Corp Middlefield OH	216-632-1831
Fluorocarbon Chicago Div Mundelein IL	312-949-0850
Fluoro-Plastics Inc Philadelphia PA	215-425-5500
Formed Plastics Inc Carle Place NY	516-ED4-2300
Form Industries Inc Dayton OH	513-278-9416
General Industries Co Elyria OH	216-323-3136
Gibson-Egan Co Duarte CA	818-558-0191
Glastic Co Cleveland OH	216-486-0100
Globe Plastics Inc Pomona CA	714-623-2747
Gries/Dynacast Div Coats & Clark Inc	
Yorktown Hts NY	914-633-8600
GTE Precision Materials Danvers MA	617-777-1900
Hammond Mfg Co Inc Buffalo NY	716-894-5710
Hayrite Reinforced Plastics Erie PA	814-868-3691
Heisenor Industries Inc Mt Vernon NY	914-667-3535
Industrial Electronic Hardware Corp	
New York NY	212-677-1881
International Instrumentation Inc	
Westlake Village CA	818-991-9614
Jaco Mfg Co Berea OH	216-234-4000
Kysor/Cadillac Cadillac MI	616-775-4681
LaFrance Corp Philadelphia PA	215-365-8000
Lea Siegler Inc Santa Monica CA	213-452-5444
Magnetic Laboratories Alachua FL	607-754-5800
Martex Corp Oxford MI	313-628-9711
Masterite Industries Corp Torrance CA	213-775-3471
Meridian Lab Middletown CT	608-836-7571
Methode Electronics Inc Chicago IL	312-867-9600
Methode Electronics Inc Interconnect Prods Div	
New York NY	312-392-3500
Modor Technical Products Tampa FL	813-855-5736
Moldtronics Inc Downers Grove IL	312-968-7000
Molex Inc Lisle IL	312-969-4550
Montevideo Technology Inc Montevideo MN	612-269-6562
Morris Enterprises Inc Sepulveda CA	213-894-9103
Multi-Flex Seals Inc Hackensack NJ	201-487-8080
Naugler Engineering Inc Beverly MA	617-922-5634
New York Testing Labs Inc Westbury NY	516-334-7770
Norton Co Worcester MA	617-853-1000
Norton Performance Plastics Wayne NJ	201-696-4700
Ny-Glass Plastics Paramount CA	213-636-1035
Olympic Plastics Co Los Angeles CA	213-837-5321
Omega Laboratories Inc Rowley MA	617-948-7757
Orion Resdel Corp Rio Grande NJ	609-886-1111
Parker Hannifin Corp Seal Group	
Lexington KY	606-269-2351
Parker Seal Group Lexington KY	606-269-2351
Permonite Mfg Co Palatine IL	312-358-0088
Plastics Consulting & Mfg Co Camden NJ	609-963-7700
Plastiglide Mfg Corp Hawthorne CA	213-777-8108
Plastronic Engineering Co Haverhill MA	617-372-7703
Polaroid Corp Cambridge MA	617-577-2000
Polymer Corp Reading PA	215-320-6600
Precision Paper Tube Co Wheeling IL	312-537-4250
Projects Unlimited Inc Dayton OH	513-890-1918
Quality Components Inc St Marys PA	814-834-2817
Raychem Corp Menlo Park CA	415-361-3333
Republic Packaging Corp Chicago IL	312-233-6530
Richco Plastic Co Chicago IL	312-539-4060
Richmond Technology Inc Redlands CA	714-794-2111
Robison Electronics Inc San Luis Obispo CA	805-544-8000
Ross Co Milton Southampton PA	215-355-0200
Rostone Lafayette IN	317-474-2421
SADA Electronica SpA Pavia Italy	382-4669-31
Santec Inc New Albany IN	812-944-6733
SCI Systems Inc Huntsville AL	205-882-4800
Security Plastics Inc Miami Lakes FL	305-823-5440
Shamban & Co W S Santa Monica CA	213-397-2195
Shaw Plastics Corp Berkeley Heights NJ	201-464-1000
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sinclair & Rush Inc St Louis MO	314-481-2450
SL Plastics Nazareth PA	215-759-0280
SPC Technology Bensenville IL	312-766-6711
Staffall Inc Providence RI	401-351-8282
Stevens Products Inc East Orange NJ	201-672-2140
Storm Products Co Inglewood CA	213-776-8141
Synthane-Taylor Corp Oaks PA	215-666-0300
Teknological Industries Inc Rochester NY	716-232-1291
Thermalloy Inc Dallas TX	214-243-4321
Thermotech Minnesota Oper Hopkins MN	612-933-9400
Tran Spectra Inc Greenfield TN	901-235-2218
Trwin Rivers Engineering Inc E Boothbay ME	207-633-2975
UFE Incorporated Stillwater MN	612-439-1561
Ultra Products Manitow Beach MI	517-547-3161
U S Precision Lens Inc Cincinnati OH	513-752-7000
Unit Industries Inc Fullerton CA	714-871-4161
Upson Tools Inc Rochester NY	716-663-5373
USECO Div Litton Systems Inc Van Nuys CA	818-786-9381
Van Norman Molding Co Bridgeview IL	312-430-4343
Viz Test Equip Div Viz Mfg Co	
Philadelphia PA	215-844-2626
Warren Components Corp Warren PA	814-723-6200
Wells Electronics Inc South Bend IN	219-287-5941
Wescorp Div DAL Indus Inc Mt View CA	415-969-7717
Westmoreland Plastics Co Div Umec Corp	
Latrobe PA	412-539-1612
Whitso Inc Schiller Park IL	312-678-5200
Xytec Plastics Inc Tacoma WA	206-582-0644

PLASTIC PARTS—STAMPED OR PUNCHED

CONCORD ELECTRONICS CORP	
NEW YORK NY	212-777-6571
KEYSTONE ELECTRONICS CORP	
NEW YORK NY	212-475-4600
Accessories for Electronics Inc Baldwin NY	516-546-1751
Accurate Electronics Corp Elyria OH	216-365-1211
Acme Model Engineering Co Ridgfield NJ	201-943-7650
Atomat Electronic Hardware Co	
New Haven CT	203-397-3311
Apahouse-Schoonmaker Mica Co	
Asheville-Elcom Inc Watertown MA	617-924-1505
Newport News VA	804-244-7311

Auburn Mfg Co Middletown CT	203-346-6677
Blinn Co Inc Delbert Pomona CA	213-628-8794
Chomerics Laminates Inc Hudson NH	603-880-4807
Comco Plastics Inc Richmond Hill NY	718-849-9000
Concord Electronics Corp New York NY	212-777-6571
Dan-L Inc E Northport NY	516-757-8000
DEK Inc St Charles IL	312-377-2575
Dixon Industries Corp Bristol RI	401-253-2000
Dorco Electronics Inc Paramount CA	213-636-5552
E-A-R Div Cabot Corp Indianapolis IN	317-872-1111
Electrical Insulation Co Div Workman Elctn Prods Inc	
Sarasota FL	813-371-2355
Electronic Essentials Inc Woodside NY	718-898-8300
Engineered Plastics Inc Gibsonville NC	919-449-4121
Fibre Materials Corp Plainville NY	516-349-1660
Fluorocarbon Chicago Div Mundelein IL	312-949-0850
Fluoro-Plastics Inc Philadelphia PA	215-425-5500
Formed Plastics Inc Carle Place NY	516-ED4-2300
Harva Co Inc Schoharie NY	518-295-8101
Industrial Electronic Hardware Corp	
New York NY	212-677-1881
Jan Hardware Mfg Co Inc	
Long Island City NY	212-361-0800
Kestler Electronics Temple City CA	818-445-2692
Keystone Electronics Corp New York NY	212-475-4600
Kolmogorov Corp PCK Technology Div	
Melville NY	516-454-4400
Laminated Fabricators San Bruno CA	415-583-5092
Mantex Corp Oxford MI	313-628-9711
Methode Electronics Inc Chicago IL	312-867-9600
New York Testing Labs Inc Westbury NY	516-334-7770
Norplex LaCrosse WI	608-784-6070
Norton Co Worcester MA	617-853-1000
Norton Performance Plastics Wayne NJ	201-696-4700
Ny-Glass Plastics Paramount CA	213-636-1035
Parsons Mfg Corp Menlo Park CA	415-324-4726
Penn Fibre & Specialty Co Philadelphia PA	215-288-7365
Permonite Mfg Co Palatine IL	312-358-0088
Plastics Consulting & Mfg Co Camden NJ	609-963-7700
Plastronic Engineering Co Haverhill MA	617-372-7703
Polymer Corp Reading PA	215-320-6600
Republic Packaging Corp Chicago IL	312-233-6530
Ross Co Milton Southampton PA	215-355-0200
Seastrom Mfg Co Inc Glendale CA	213-245-9121
Sheldahl Inc Northfield MN	507-663-8000
Sjoberg & Son Inc Cranston RI	401-461-8220
SPC Technology Bensenville IL	312-766-6711
Spruce Pine Mica Co Inc Spruce Pine NC	704-765-4241
Stock Drive Products Inc Div Designtronics	
New Hyde Park NY	516-328-0200
Synthane-Taylor Corp Oaks PA	215-666-0300
Teknological Industries Inc Rochester NY	716-232-1291
Tonlight Corp York PA	717-843-9901
Upson Tools Inc Rochester NY	716-663-5373
Vector Electronic Co Inc Sylmar CA	818-365-9661
Wilmington Fibre Specialty Co New Castle DE	302-328-7525

PLASTIC PARTS—VACUUM FORMED

SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Applied Design Co Inc Tonawanda NY	716-837-4400
Bal Corp William Elizabeth NJ	201-354-9625
Comco Plastics Inc Richmond Hill NY	718-849-9000
Daniels Inc C R Elliott City MD	301-461-2100
Dan-L Inc E Northport NY	516-757-8000
Engineered Plastics Inc Gibsonville NC	919-449-4121
Fluorocarbon Chicago Div Mundelein IL	312-949-0850
Formed Plastics Inc Carle Place NY	516-ED4-2300
Form Fit Plastics Dracut MA	617-957-2943
Formulated Resins Inc Greenville RI	401-949-2060
Harva Co Inc Schoharie NY	518-295-8101
Heath Techn Aerospace Co Kent WA	206-872-7500
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Mantex Corp Oxford MI	313-628-9711
New York Testing Labs Inc Westbury NY	516-334-7770
Olympic Plastics Co Los Angeles CA	213-837-5321
Pantastote Inc Packaging Div Passaic NJ	201-777-8500
Parsons Mfg Corp Menlo Park CA	415-324-4726
Plastics Consulting & Mfg Co Camden NJ	609-963-7700
Prevent Static Inc Pennsauken NJ	609-665-5595
Richmond Technology Inc Redlands CA	714-794-2111
Ross Co Milton Southampton PA	215-355-0200
SCI Systems Inc Huntsville AL	205-882-4800
Shokai Far East Ltd Hartsdale NY	914-681-0700
Thermodyne Intl Ltd Long Beach CA	213-603-1970
Wescorp Div DAL Indus Inc Mt View CA	415-969-7717
Zero Corp Burbank CA	818-846-4911

PLASTIC POTTING COMPOUNDS

See Potting Compounds

PLASTIC RODS

SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
ZEUS INDUSTRIAL PRODUCTS INC	
RARITAN NJ	201-526-0800
Amphenol Products Lisle IL	312-983-3500
Atlas Fibre Co Skokie IL	312-465-1234
Bacon Industries Inc Watertown MA	617-926-2550
Berg Inc Winfred M East Rockaway NY	516-599-5010
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Comco Plastics Inc Richmond Hill NY	718-849-9000
Dixon Industries Corp Bristol RI	401-253-2000
Electrical Insulation Co Div Workman Elctn Prods Inc	
Sarasota FL	813-371-2355
Emerson & Guming Canton MA	617-828-3300
Engineered Plastics Inc Gibsonville NC	919-449-4121
Federal Screw Products Inc Chicago IL	312-478-5744
Fluorocarbon Chicago Div Mundelein IL	312-949-0850
Fluoro-Plastics Inc Philadelphia PA	215-425-5500
Formed Plastics Inc Carle Place NY	516-ED4-2300
Glastic Co Cleveland OH	216-486-0100
Harva Co Inc Schoharie NY	518-295-8101

Harvel Plastics Inc Easton PA	215-252-7355
Hayrite Reinforced Plastics Erie PA	814-868-3691
Laminated Fabricators San Bruno CA	415-583-5092
Norelcom Industries Inc Farmingdale NY	516-249-7262
Norton Co Worcester MA	617-853-1000
Norton Performance Plastics Wayne NJ	201-696-4700
Plastics Consulting & Mfg Co Camden NJ	609-963-7700
Polygon Co Walkerton IN	219-586-3122
Polymer Corp Reading PA	215-320-6600
Pyramid Plastics Inc Hope AR	501-777-5759
Republic Packaging Corp Chicago IL	312-233-6530
Rogers Corp ATD Lithonia GA	404-981-9830
Shokai Far East Ltd Hartsdale NY	914-681-0700
SL Plastics Nazareth PA	215-759-0280
Spruce Pine Mica Co Inc Spruce Pine NC	704-765-4241
Stevens Products Inc East Orange NJ	201-672-2140
Synthane-Taylor Corp Oaks PA	215-666-0300
Thermoplastic Processes Inc Stirling NJ	201-627-1000
U S Plastic Corp Lima OH	419-228-2242
Westlake Plastics Co Lenni PA	215-459-1000
Wilmington Fibre Specialty Co New Castle DE	302-328-7525
Zeus Industrial Products Inc Raritan NJ	201-526-0800

Pyramid Plastics Inc Hope AR	501-777-5759
Raychem Corp Menlo Park CA	415-361-3333
Republic Packaging Corp Chicago IL	312-233-6530
Richco Plastic Co Chicago IL	312-539-4060
Rogers Corp ATD Lithonia GA	404-981-9830
Sinclair & Rush Inc St Louis MO	314-481-2450
SOS Lighting Devices Div MEMCO Philadelphia PA	215-423-7077
Spruce Pine Mica Co Inc Spruce Pine NC	704-765-4241
Stevens Products Inc East Orange NJ	201-672-2140
Synthane-Taylor Corp Oaks PA	215-666-0300
Technical Specialties Co Inc Spring Valley NY	914-425-9700
Thermoplastic Processes Inc Stirling NJ	201-627-1000
Tulox Plastics Corp Marion IN	317-664-5155
U S Plastic Corp Lima OH	419-228-2242
Varflex Corp Rome NY	315-336-4400
Westlake Plastics Co Lenni PA	215-459-1000
Wilmington Fibre Specialty Co New Castle DE	302-328-7525
Zeus Industrial Products Inc Raritan NJ	201-526-0800
Zippertubing Co Los Angeles CA	213-321-3901

PLATES—PHOTOMASK

See Photomask Plates

PLATING ANODES—COMMON METALS

HUNTER PRODUCTS INC BRIDGEWATER NJ	201-526-8440
Alpha Metals Inc Jersey City NJ	201-434-6778
Atomergic Chemetals Corp Plainview NY	516-349-8800
Etchomatic Inc Waltham MA	617-893-2020
Gardiner Solder Co Chicago IL	312-847-0100
H B S Equipment Corp Los Angeles CA	213-726-3033
Hunter Products Inc Bridgewater NJ	201-526-8440
Indium Corp of America Utica NY	315-797-1630
Kester Solder Div Litton Sys Inc Chicago IL	312-235-1600
MacDermid Inc Waterbury CT	203-575-5600
M & T Chemicals Inc Rahway NJ	201-499-0200
Sifco Selective Plating Div Sifco Ind Inc Cleveland OH	216-524-0099

PLATING ANODES—PRECIOUS METALS

HUNTER PRODUCTS INC BRIDGEWATER NJ	201-526-8440
Atomergic Chemetals Corp Plainview NY	516-349-8800
Eastern Smelting & Refining Corp Lynn MA	617-599-9000
Engelhard Industries Iselin NJ	201-321-5900
GTE Technical Products Div Reidsville NC	919-342-2381
Handy & Harman New York NY	212-752-3400
H B S Equipment Corp Los Angeles CA	213-726-3033
Hunter Products Inc Bridgewater NJ	201-526-8440
Indium Corp of America Utica NY	315-797-1630
M & T Chemicals Inc Rahway NJ	201-499-0200
Sel-Rex/OMI Intl Corp Nutley NJ	201-667-5200
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Sifco Selective Plating Div Sifco Ind Inc Cleveland OH	216-524-0099
Supercon Inc Shrewsbury MA	617-842-0174
Wilkinson Co Westlake Village CA	818-889-0050
Williams Gold Refining Co Inc Precious Metals Div Buffalo NY	716-837-1000

PLATING CHEMICALS

See Chemicals

PLATING MACHINES

See Machines

PLATING SERVICES

See Production Services

PLATING TANKS

See Tanks

PLATINUM

See Metals; Wire—Bare

PLAYERS

See Magnetic Tape Players

PLOTTERS

See Computer Output Plotters; Computer

Plotting Boards; Recorders—Graphic

PLUGBOARDS

See Breadboards, Computer Patchboards,

Plugboards & Problem Boards

PLUGS—ADAPTER (EXCEPT LINE-CORD GROUNDING)

CONNECTOR CORP CHICAGO IL	312-539-3125
ADV PG 125	
MOUSER ELECTRONICS MANSFIELD TX	817-483-0100
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
POWER DYNAMICS INC WEST ORANGE NJ	201-736-5700
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Accessories for Electronics Inc Baldwin NY	516-546-6100
ADC Telecommunications Minneapolis MN	612-835-6100
Augat Inc Attleboro MA	617-222-1600
Connector Corp Chicago IL	312-539-3125
Cooper Industries Arrow Hart Hartford CT	203-249-8400
Ercona Corp Port Jefferson Sta NY	516-331-5500
GC Electronics Div Household Intl Rockford IL	815-968-9600
ITT Pomona Electronics Pomona CA	714-623-3400
Kings Electronics Co Inc Tuckahoe NY	914-793-5000
Kulka Smith Inc Manassquan NJ	201-223-9400
Mouser Electronics Mansfield TX	817-483-0100
National Tel-Tronics Div Technodyne Inc Meadville PA	814-724-6400
Panduit Corp Tinley Park IL	312-532-1800
Pass & Seymour Syracuse NY	315-468-6600
Peerless Radio Corp Lynbrook NY	516-593-2121
Permonite Mfg Co Palatine IL	312-358-0000
Planstiel Waukegan IL	312-623-1300
Philmore Mfg Co Inc Inwood NY	516-239-6100
Power Dynamics Inc West Orange NJ	201-736-5700
Recotcon Corp Long Island City NY	718-392-6400
Sager Hingham MA	617-749-6700
Schroff Inc Warwick RI	401-732-3700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Staffall Inc Providence RI	401-351-8200
Switchcraft Inc Chicago IL	312-792-2700
Vector Electronic Co Inc Sylmar CA	818-365-9600

PLUGS—COAXIAL

AMP INCORPORATED HARRISBURG PA	717-564-0100
CONCORD ELECTRONICS CORP NEW YORK NY	212-777-6500
CORD ELECTRONICS INC WESTBURY NY	516-935-3600
KING WIRE & CABLE CORP JAMAICA NY	718-657-4400
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TROMPETER ELECTRONICS INC WESTLAKE VILLAGE CA	818-707-2000
ADC Telecommunications Minneapolis MN	612-835-6100
AMP Incorporated Harrisburg PA	717-564-0100
AMP Products Corp Southeastern PA	215-647-1000
Applied Engineering Products New Haven CT	203-387-5200
BTC Electronic Components Inc Old Bridge NJ	201-536-8000
Caton Connector Corp Kingston MA	617-585-4200
Concord Electronics Corp New York NY	212-777-6500
Cord Electronics Inc Westbury NY	516-935-3600
Decibel Products Inc Dallas TX	214-631-0100
Ercona Corp Port Jefferson Sta NY	516-331-5500
Excelan Inc San Jose CA	408-434-2200
GC Electronics Div Household Intl Rockford IL	815-968-9600
Inmac Santa Clara CA	408-727-1900
ITT Pomona Electronics Pomona CA	714-623-3400
Johnson Co E/F/Components Div Waseca MN	507-835-6200
King Wire & Cable Corp Jamaica NY	718-657-4400
Kings Electronics Co Inc Tuckahoe NY	914-793-5000
Kulka Smith Inc Manassquan NJ	201-223-9400
LVC Industries Inc Co-Ord Switch Div Freeport NY	516-868-1900
Malco Div Microdot Inc Montgomeryville PA	215-699-5300
National Tel-Tronics Div Technodyne Inc Meadville PA	814-724-6400
Panduit Corp Tinley Park IL	312-532-1800
Peerless Radio Corp Lynbrook NY	516-593-2121
Planstiel Waukegan IL	312-623-1300
Philmore Mfg Co Inc Inwood NY	516-239-6100
Recotcon Corp Long Island City NY	718-392-6400
Rowe Industries Inc Toledo OH	419-729-9700
Sager Hingham MA	617-749-6700
Sealelectro Corp Trumbull CT	203-372-4100
Shokai Far East Ltd Hartsdale NY	914-681-0700
SPC Technology Bensenville IL	312-766-6700
Trompeter Electronics Inc Westlake Village CA	818-707-2000
Tru-Connector Corp Peabody MA	617-532-0700
United Microwave Products Inc Torrance CA	213-320-1200
Virginia Panel Corp Waynesboro VA	703-949-8300
Wall-Able Mfg Corp Chicago IL	312-440-1000

PLUGS—HOLE

CONCORD ELECTRONICS CORP NEW YORK NY	212-777-6500
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TROMPETER ELECTRONICS INC WESTLAKE VILLAGE CA	818-707-2000
Bruce Plastics Inc Pittsburgh PA	412-787-2100
Concord Electronics Corp New York NY	212-777-6500
Heyco Molded Products Kenilworth NJ	201-245-0000
Kulka Smith Inc Manassquan NJ	201-223-9400

PLASTIC SHEETS & PLATES

Atlas Fibre Co Skokie IL	312-465-1234
Bell Co Inc Trussville AL	205-655-2135
Chemical Fabrics Corp Merrimack NH	603-424-9000
Comco Plastics Inc Richmond Hill NY	718-849-9000
Dixon Industries Corp Bristol RI	401-253-2000
Eastman Chemical Products Inc Kingsport TN	800-327-8626
Electrical Insulation Co Div Workman Elctn Prods Inc Sarasota FL	813-371-2355
Emerson & Cuming Canton MA	617-828-3300
Engineered Plastics Inc Gibsonville NC	919-449-4121
Fluoro-Plastics Inc Philadelphia PA	215-425-5500
Formed Plastics Inc Carle Place NY	516-ED4-2300
Glasic Co Cleveland OH	216-486-0100
Harva Co Inc Schorharie NY	518-295-8101
Hayrite Reinforced Plastics Erie PA	814-868-3691
Homalite Inc Wilmington DE	302-652-3686
Keene Corp Laminates Div East Providence RI	401-434-2340
Laminated Fabricators San Bruno CA	415-583-5092
Norplex LaCrosse WI	608-784-6070
Norton Co Worcester MA	617-853-1000
Norton Performance Plastics Wayne NJ	201-696-4700
Olympic Plastics Co Los Angeles CA	213-837-5321
Panagraphic Corp West Caldwell NJ	201-227-1500
Penn Fibre & Specialty Co Philadelphia PA	215-288-7366
Plastics Consulting & Mfg Co Camden NJ	609-963-7700
Polymer Corp Reading PA	215-320-6600
Republic Packaging Corp Chicago IL	312-233-6530
Rogers Corp ATD Lithonia GA	404-981-9830
SL Plastics Nazareth PA	215-759-0280
Spruce Pine Mica Co Inc Spruce Pine NC	704-765-4241
Synthane-Taylor Corp Oaks PA	215-666-0300
U S Plastic Corp Lima OH	419-228-2242
Wescorp Div DAL Indus Inc Mt View CA	415-969-7717
Westlake Plastics Co Lenni PA	215-459-1000

PLASTIC TUBING

ZEUS INDUSTRIAL PRODUCTS INC RARITAN NJ	201-526-0800
Acme Model Engineering Co Ridgefield NJ	201-943-7650
Alpha Wire Corp Elizabeth NJ	201-925-8000
Amphenol Products Lisle IL	312-983-3500
Atlas Fibre Co Skokie IL	312-465-1234
Berg Inc Winfred M East Rockaway NY	516-599-5010
Brady Co W H Industrial Prods Div Milwaukee WI	414-351-6630
Champlain Cable Corp Winooski VT	802-655-2121
Chemical Fabrics Corp Merrimack NH	603-424-9000
Coaxco Inc Tualatin OR	503-692-2900
Comco Plastics Inc Richmond Hill NY	718-849-9000
Dixon Industries Corp Bristol RI	401-253-2000
Dorco Electronics Inc Paramount CA	213-636-5552
Electrical Insulation Co Div Workman Elctn Prods Inc Sarasota FL	813-371-2355
Electronized Chemicals Co Wilmington MA	617-657-8030
Engineered Plastics Inc Gibsonville NC	919-449-4121
Flex Products Claristadt NJ	201-933-3030
Fluoro-Plastics Inc Philadelphia PA	215-425-5500
Formed Plastics Inc Carle Place NY	516-ED4-2300
General Scientific Equipment Co Philadelphia PA	215-564-6366
Gilbreth International Corp Cornwells Hgts PA	215-638-7100
Glasic Co Cleveland OH	216-486-0100
Harva Co Inc Schorharie NY	518-295-8101
Harvel Plastics Inc Easton PA	215-252-7355
Harvel Co Santa Monica CA	213-829-2310
Homalite Inc Wilmington DE	302-652-3686
Icor International Inc Sunnysvale CA	408-732-5400
Kirkhill Rubber Co Brea CA	714-529-4901
Laminated Fabricators San Bruno CA	415-583-5092
Markel Corp Norristown PA	215-272-8960
Nalgene Industrial Dept Nalge Co Rochester NY	716-586-8800
National Wire & Cable Corp Los Angeles CA	213-225-5611
Natvac Co Div High Voltage Eng Clayton NC	919-553-4151
Norelcom Industries Inc Farmingdale NY	516-249-7262
Norton Co Worcester MA	617-853-1000
Norton Performance Plastics Wayne NJ	201-696-4700
Olympic Plastics Co Los Angeles CA	213-837-5321
Orion Resdel Corp Rio Grande NJ	609-886-1111
Parker Hannifin Corp Hose Prods Div Wickliffe OH	216-943-5700
Parker Hannifin Corp Parflex Div Ravenna OH	216-296-2871
Parker Seal Group Lexington KY	606-269-2351
Phoenix Wire Inc South Hero VT	802-372-4581
Plastics Consulting & Mfg Co Camden NJ	609-963-7700
Polygon Co Walkerton IN	219-586-3122
Polymer Corp Reading PA	215-320-6600
Precision Paper Tube Co Wheeling IL	312-537-4250

Peerless Radio Corp Lynbrook NY	516-593-2121
Westlight Mfg Corp Hawthorne CA	213-777-8108
Ger Hingham MA	617-449-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Clear & Rush Inc St Louis MO	314-481-2450
C Technology Bensenville IL	312-766-6711
Imperial Co Inc Bayport NY	516-472-2000
Switchcraft Inc Chicago IL	312-792-2700
Computer Electronics Inc	
Westlake Village CA	818-707-2020

PLUGS—LINE CORD & LINE-CORD GROUNDING ADAPTERS

Peerless Radio Corp Lynbrook NY	516-593-2121
ADV PGS Green Pages/Footstrips	
POWER DYNAMICS INC	
WEST ORANGE NJ	201-736-5722
GER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
MC Telecommunications Minneapolis MN	612-835-6800
Den Products Co Brockton MA	617-583-0160
rol Cable Co Inc Electn Cables Div	
Pawtucket RI	401-724-9605
oper Industries Arrow Hart Hartford CT	203-249-8471
etro Cords Div Middlebury IN	219-825-9466
ona Corp Port Jefferson Sta NY	516-331-5500
Electronics Div Household Int'l	
Rockford IL	815-968-9661
ernational Configurations Inc Enfield CT	203-749-6380
ilton Mfg Co Inc Little Neck NY	212-229-4040
ler Elec Co Div Carol Cable Co	
Pawtucket RI	401-728-7000
nel Components Corp Santa Rosa CA	707-523-0600
ss & Seymour Syracuse NY	315-468-6211
erless Radio Corp Lynbrook NY	516-593-2121
ilmore Mfg Co Inc Inwood NY	516-239-6161
wer Dynamics Inc West Orange NJ	201-736-5722
ger Hingham MA	617-749-6700
okai Far East Ltd Hartsdale NY	914-681-0700
C Technology Bensenville IL	312-766-6711
itchcraft Inc Chicago IL	312-792-2700
ginia Plastics Co Roanoke VA	703-985-3811

PLUGS—PHONE

RD ELECTRONICS INC WESTBURY NY	516-935-3640
NG WIRE & CABLE CORP JAMAICA NY	718-657-4422
MASTER SWITCH CORP	
WOODSTOCK CT	203-974-1000
USER ELECTRONICS MANSFIELD TX	817-483-0165
ERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
GER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
OKAI FAR EAST LTD HARTSDALE NY	914-681-0700
urate Electronics Corp Elyria OH	216-365-1211
MC Telecommunications Minneapolis MN	612-835-6800
AP Products Corp Southeastern PA	215-647-1000
mpment Mfg Svc Inc	
West Bridgewater MA	617-580-0111
rd Electronics Inc Westbury NY	516-935-3640
Electronics Div Household Int'l	
Rockford IL	815-968-9661
ng Wire & Cable Corp Jamaica NY	718-657-4422
gs Electronics Co Inc Tuckahoe NY	914-793-5000
ika Smith Inc Manassquan NJ	201-223-9400
master Switch Corp Woodstock CT	203-974-1000
an Electronics Corp Feasterville PA	215-355-8200
R Electronics Inc Gaithersburg MD	301-921-9440
user Electronics Mansfield TX	817-483-0165
ational Tel-Tronics Div Technodyne Inc	
Meadville PA	814-724-6440
erless Radio Corp Lynbrook NY	516-593-2121
ilmore Mfg Co Inc Inwood NY	516-239-6161
ha Electronics Industries Inc Niles IL	312-647-8338
oton Corp Long Island City NY	718-392-6442
ger Hingham MA	617-749-6700
okai Far East Ltd Hartsdale NY	914-681-0700
C Technology Bensenville IL	312-766-6711
thcraft Inc Chicago IL	312-792-2700
mm Inc Libertyville IL	312-362-3700
WV Connector Div Elk Grove Village IL	312-981-6000
rkman Electronic Products Inc	
Sarasota FL	800-237-6666

PLUGS—PHONO

CONCORD ELECTRONICS CORP	
NEW YORK NY	212-777-6571
INJECTOR CORP CHICAGO IL	312-539-3108
ADV PG 125	
RD ELECTRONICS INC WESTBURY NY	516-935-3640
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
KESTONE ELECTRONICS CORP	
NEW YORK NY	212-475-4600
NG WIRE & CABLE CORP JAMAICA NY	718-657-4422
USER ELECTRONICS MANSFIELD TX	817-483-0165
ERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
GER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
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AP Products Corp Southeastern PA	215-647-1000
mpment Mfg Svc Inc	
West Bridgewater MA	617-580-0111
ncord Electronics Corp New York NY	212-777-6571
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rd Electronics Inc Westbury NY	516-935-3640
ctronic Equipment Co Ltd Hempstead NY	516-538-5510

r addresses, phones & sales offices, see green pages

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GC Electronics Div Household Int'l	
Rockford IL	815-968-9661
Keystone Electronics Corp New York NY	212-475-4600
King Wire & Cable Corp Jamaica NY	718-657-4422
Kulka Smith Inc Manassquan NJ	201-223-9400
LZR Electronics Inc Gaithersburg MD	301-921-9440
Molex Inc Lisle IL	312-969-4550
Mouser Electronics Mansfield TX	817-483-0165
National Tel-Tronics Div Technodyne Inc	
Meadville PA	814-724-6440
Oneida Electronic Mfg Inc Meadville PA	814-336-2125
Peerless Radio Corp Lynbrook NY	516-593-2121
Planstiehl Waukegan IL	312-623-1360
Philmore Mfg Co Inc Inwood NY	516-239-6161
Preh Electronics Industries Inc Niles IL	312-647-8338
Recoton Corp Long Island City NY	718-392-6442
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
SPC Technology Bensenville IL	312-766-6711
Switchcraft Inc Chicago IL	312-792-2700
TRW Connector Div Elk Grove Village IL	312-981-6000
Wall-Able Mfg Corp Chicago IL	312-440-1000
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

PLUGS—TEST LEAD TERMINAL

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KESTONE ELECTRONICS CORP	
NEW YORK NY	212-475-4600
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Accurate Electronics Corp Elyria OH	216-365-1211
ADC Telecommunications Minneapolis MN	612-835-6800
Alden Products Co Brockton MA	617-583-0160
Allied Systems Corp Greensboro NC	919-299-2294
Concord Electronics Corp New York NY	212-777-6571
Ercona Corp Port Jefferson Sta NY	516-331-5500
GC Electronics Div Household Int'l	
Rockford IL	815-968-9661
Interlok Div Wm J Purdy Co Burlingame CA	415-348-5625
ITT Pomona Electronics Pomona CA	714-623-3463
Keystone Electronics Corp New York NY	212-475-4600
Kulka Smith Inc Manassquan NJ	201-223-9400
Mac Panel Co High Point NC	919-884-8111
Mouser Electronics Mansfield TX	817-483-0165
National Tel-Tronics Div Technodyne Inc	
Meadville PA	814-724-6440
Oxley Developments Co Ltd	
Ulverston Cumbria England	0229-52621
Peerless Radio Corp Lynbrook NY	516-593-2121
Philmore Mfg Co Inc Inwood NY	516-239-6161
Sager Hingham MA	617-749-6700
Samtec Inc New Albany IN	812-944-6733
Sealectro Corp Trumbull CT	203-372-4118
Shokai Far East Ltd Hartsdale NY	914-681-0700
SPC Technology Bensenville IL	312-766-6711
Vector Electronic Co Inc Sylmar CA	818-365-9661
Virginia Panel Corp Waynesboro VA	703-949-8376

PLUGS—TWIN LINE

KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
POWER DYNAMICS INC	
WEST ORANGE NJ	201-736-5722
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Accurate Electronics Corp Elyria OH	216-365-1211
AMP Products Corp Southeastern PA	215-647-1000
Ercona Corp Port Jefferson Sta NY	516-331-5500
ITT Pomona Electronics Pomona CA	714-623-3463
King Wire & Cable Corp Jamaica NY	718-657-4422
Kings Electronics Co Inc Tuckahoe NY	914-793-5000
Malco Div Microdot Inc Montgomeryville PA	215-699-5373
Panduit Corp Tinley Park IL	312-532-1800
Peerless Radio Corp Lynbrook NY	516-593-2121
Power Dynamics Inc West Orange NJ	201-736-5722
Shokai Far East Ltd Hartsdale NY	914-681-0700
SPC Technology Bensenville IL	312-766-6711

POINTERS

See Dial Pointers

POLARIZERS

See Optoelectronic Switches

POLAR-TO-RECTANGULAR CONVERTERS

See Converters—Polar; Synchro Converters

POLICE RADAR

See Radar Speed Meters

POLICE RADIO

See Communications Systems; Receivers;

Transmitters

POLLUTION DETECTORS—AIR

TELEDYNE GEOTECH GARLAND TX	214-271-2561
Climatronics Corp Bohemia NY	516-567-7300
Columbia Scientific Industries Corp Austin TX	512-258-5191
De-Tec-Tronic Corp Elgin IL	312-695-8150
Devco Engineering Inc Fairfield NJ	201-228-0321
EG & G Inc Environmental Equip Div	
Waltham MA	617-890-3710
Electromatic Controls Corp	
Hoffman Estates IL	312-882-5757
Engelhard Industries Iselin NJ	201-321-5900
The Foxboro Co Foxboro MA	617-543-8750
Hiac/Royco Instruments Div Menlo Park CA	415-325-7811
Infincon Leybold-Heraeus Inc	
East Syracuse NY	315-437-0377
ITT Barton Instruments Co	
City of Industry CA	818-961-2547
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Leas Siegler Inc Santa Monica CA	213-452-5444
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Mine Safety Appliances Co Pittsburgh PA	412-273-5175
New York Testing Labs Inc Westbury NY	516-334-7770
Semetex Corp Torrance CA	213-539-0201
Synthatron Corp Parsippany NJ	201-335-5000
Teledyne Geotech Garland TX	214-271-2561
Thomson CSF Inc White Plains NY	914-694-4450
Tracor Inc Austin TX	512-929-2051

POLLUTION DETECTORS—WATER

Aerojet Electro Systems Co Azusa CA	818-334-6211
Aqua Media Int'l Sub Osmonics Inc	
Fremont CA	415-651-5000
Dohrmann Div Xertex Corp Santa Clara CA	408-727-6000
Eitel Mfg Inc Laguna Beach CA	714-494-2012
Formulabs Industrial Inks Inc Escondido CA	800-531-9358
The Foxboro Co Foxboro MA	617-543-8750
Gam Rad West Inc Garden Grove CA	714-554-0773
Hiac/Royco Instruments Div Menlo Park CA	415-325-7811
ITT Barton Instruments Co	
City of Industry CA	818-961-2547
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Leeds & Northrup Instruments	
North Wales PA	215-643-2000
Montedoro-Whitney Corp	
San Luis Obispo CA	805-543-1233
Osmonics Inc Osmo Membrane Sys Div	
Minnetonka MN	612-933-2277
Tracor Inc Austin TX	512-929-2051
Yellow Springs Instrument Co Inc	
Yellow Springs OH	513-767-7241

POLYESTERS

See Plastic Listings; Potting Compounds

POLYURETHANE

See Potting Compounds

PORCELAIN

See Ceramic Listings

PORTABLE CASES

See Cases

PORTABLE EQUIPMENT

See Equipment Type Desired

POSITIONING EQUIPMENT

See Controls; Servos; Synchros; Transducers

POSTS—BINDING

See Terminals—Binding Post

POTASSIUM

See Metals—Alkaline

POTENTIOMETER SERVOS

See Servo Potentiometers

POTENTIOMETERS (EXCEPT FOLLOWING TYPES LISTED)

ALPS ELECTRIC (USA) INC	
ROCKVILLE CENTRE NY	516-766-3636
ADV PG 111	
MEASUREMENT SYSTEMS INC	
NORWALK CT	203-838-5561
MURATA ERIE NORTH AMERICA INC	
SMYRNA GA	404-436-1300
ADV PG 327	
RCD COMPONENTS INC	
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SERVO INSTRUMENT CORP BARABOO WI	608-356-6623
ADV PG 327	

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(For complete catalog, see
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Brel Intl Components Sarasota FL.....	813-355-9791
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CTS Corp Elkhart IN.....	219-293-7511
Duncan Electronics Inc Costa Mesa CA.....	714-545-8261
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Murata Erie North America Inc Smyrna GA.....	404-436-1300
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CTS Corp Asheville Div Elkhart IN.....	219-293-7511
ISKRA Electronics Inc Farmingdale NY.....	516-753-0400
JDK Controls Inc Newbury Park CA.....	805-499-7779
Litton Systems Inc Potentiometer Div Mt Vernon NY.....	914-664-7733
Mouser Electronics Mansfield TX.....	617-483-0165
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Murata Erie North America Inc Smyrna GA.....	404-436-1300
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Preh Electronics Industries Inc Niles IL.....	312-647-8338
RCD Components Inc Manchester NH.....	603-669-0054
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Shelley-Ragon Inc St Paul MN.....	612-542-2828
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
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Stetron International Inc Buffalo NY.....	716-854-3443
Techno-Components Corp Van Nuys CA.....	818-781-1616
Ultronix Inc Grand Junction CO.....	303-242-0606
United Mineral & Chemical Corp New York NY.....	212-966-4343
Vernitec Div Vernitron Corp Deer Park NY.....	516-586-5100
VRN International St Petersburg FL.....	813-347-2181

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Betatronix Inc Hauppauge NY.....	516-582-6740
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Brel Intl Components Sarasota FL.....	813-355-9791
Carter Mfg Corp Bolton MA.....	617-779-5501
Clarostat Mfg Co Inc Dover NH.....	603-742-1120
Copal Electronics Co Ltd Tokyo Japan.....	03-503-377
CTS Corp Elkhart IN.....	219-293-7511
Duncan Electronics Inc Costa Mesa CA.....	714-545-8261
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Preh Electronics Industries Inc Niles IL.....	312-647-8338

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N International St Petersburg FL.....	813-347-2181
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POTENTIOMETERS—RESISTANCE INDICATING

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lt Vernon NY.....	914-664-7733
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iley-Ragon Inc St Paul MN.....	612-542-2828
N International St Petersburg FL.....	813-347-2181

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ckman Industrial Corp Brea CA.....	714-871-4848
l Intl Components Sarasota FL.....	813-355-9791
al USA Inc Torrance CA.....	213-373-9020
d Electronics Inc Westbury NY.....	516-935-3640
S Corp Elkhart IN.....	219-293-7511
sumi Electronics Corp Melville NY.....	516-752-7730
agawa USA Corp Torrance CA.....	213-534-4985
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D Components Inc Manchester NH.....	603-669-0054
er Hingham MA.....	617-749-6700
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okai Far East Ltd Hartsdale NY.....	914-681-0700
ay Resistive Sys Group Div Vishay Intertechnology Inc	
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N International St Petersburg FL.....	813-347-2181

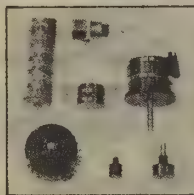
POTENTIOMETERS—TRIMMING, CARBON COMPOSITION, MOLDED

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ADV PGS 326, 328	
PS ELECTRIC (USA) INC	
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ADV PG 111	
RD ELECTRONICS INC WESTBURY NY.....	516-935-3640
ADV PG 326	
RA ELECTRONICS INC	
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ADV PG 328	
OKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
n-Bradley Co Milwaukee WI.....	414-382-2000
s Electric (USA) Inc Rockville Centre NY.....	516-766-3636
atronix Inc Hauppauge NY.....	516-582-6740

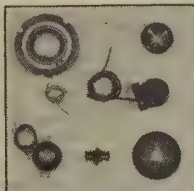
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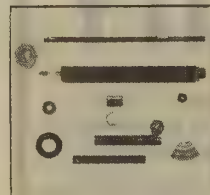
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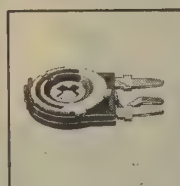
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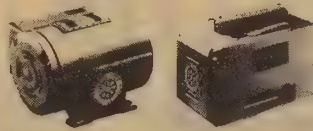
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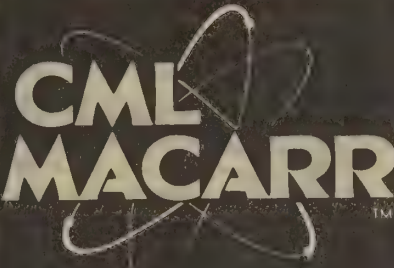
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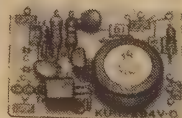
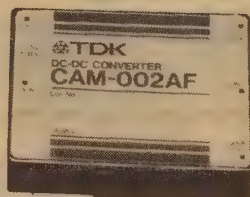
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El Microcircuits Inc Mankato MN	507-345-57
Electronic Research Assocs Inc Moonachie NJ	201-641-36
Electronics Diversified Inc Phoenix AZ	602-840-54
Elgin Electronics Erie PA	814-864-49
Elpac Power Systems Santa Ana CA	714-979-44

aco High Voltage Sutter Creek CA	209-223-3626
hn Franek Co Inc Irvine CA	714-261-5377
anayre Electronics Ltd Vancouver BC	604-293-1611
ilton Industries Inc Engrd Magnetics Div	
Hawthorne CA	213-679-0111
PowerSystems Corp Gallon OH	419-468-8100
to Engineering Co Div Reliance Elec	
Mankato MN	507-625-4011
YA-COM Microwave Power Devices Inc	
Hauptpaug NY	516-231-1400
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ular Devices Inc Bohemia NY	516-567-9620
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ational Power Technology Anaheim CA	714-937-1301
tronics Inc Cambridge MA	617-354-6534
offic Electro Dynamics Inc Redmond WA	206-881-1700
urko Electronics Co Inc Irvine CA	714-660-8014
oneer Magnetics Inc Santa Monica CA	213-829-6751
owcube Corp Billerica MA	617-867-9500
ower General Corp Canton MA	617-828-6216
ower Systems Inc Bloomfield CT	203-243-0357
ower Technology Inc Little Rock AR	501-568-1995
ower Ten Inc Sunnyvale CA	408-738-5559
ual Associates Inc Plano TX	214-424-7904
ia Inc Greenwicht CT	203-625-7300
imiconductor Circuits Inc Windham NH	603-893-2330
derberg Mfg Co Inc Walnut CA	714-595-1291
ilton Devices Inc Semiconductor Group	
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wellman High Voltage Electronics Corp	
Plainville NY	516-349-8686
rague Electric Co Lexington MA	617-862-5500
one Safety Corp Wallingford CT	203-265-7131
ohnpower A Fenit Co Danbury CT	203-748-7001
co Corp Winniequam NH	603-524-1998
edyne Microelectronics Los Angeles CA	213-870-9831
dd Products Corp Brentwood NY	516-231-3366
ko America Inc Mt Prospect IL	212-297-0070
o Laboratories Inc Plainville NY	516-349-0400
eco Electronics Inc Foster City CA	415-574-1100
iversal Corp Grand Junction CO	303-242-5267
lonex Santa Clara CA	408-727-7370
ite Technology Inc Phoenix AZ	602-437-1520
more Electronics Co Inc Hillsborough NC	919-732-9351

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ADV PGS Green Pages/Footstrips	
PERIOR ELECTRIC CO THE	
BRISTOL CT	203-582-9561
asco Corp Wakefield MA	617-246-3300
sic Measuring Instruments Foster City CA	515-570-5355
anetz Technologies Inc Edison NJ	201-287-3680
icrodyne Inc Schenectady NY	518-356-3500
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ner Hingham MA	617-749-6700
er Electric A Unit Of Gen Signal	
ik Grove Village IL	312-439-2800
erior Electric Co The Bristol CT	203-582-9561

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urlington MA	617-273-3333
th Electronics Boulder City NV	702-293-1576
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i-Circuits Lab Brooklyn NY	718-934-4500
ational Microelectronics Inc Semi-Films Div	
West Hurley NY	914-338-7714
Electronics Ltd Weston ON	416-741-7682
edyne Microelectronics Los Angeles CA	213-870-9831
stern Microwave Sunnyvale CA	408-734-1631

POWER DIVIDERS—RF & IF

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urlington MA	617-273-3333
n Industries Inc Columbus IN	812-372-8869
antek Inc Santa Clara CA	408-496-6710
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Band Engineering Co Inc Phoenix AZ	602-254-1570

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HN FRANEK CO INC IRVINE CA	714-261-5377
ADV PG 331	
ORATOR CORP MANASSAS VA	703-368-2101
erican Electronics Inc Fullerton CA	714-871-3020
rdix Electric Power Div Eatontown NJ	201-542-2000
tro-Pacific Inc Goleta CA	805-964-4878
pire Generator Corp Germantown WI	414-255-2700
n Franek Co Inc Irvine CA	714-261-5377
orator Corp Manassas VA	703-368-2101
o Engineering Co Div Reliance Elec	
tankato MN	507-625-4011
is Allis Div MagneTek Inc Milwaukee WI	414-481-6000
Products Co Inc Seattle WA	206-937-5505
ne Safety Corp Wallingford CT	203-265-7131
h Systems Corp Precise Power Div	
thomaston CT	203-283-5801

addresses, phones & sales offices, see green pages

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ABACUS CONTROLS INC SOMERVILLE NJ	201-526-6010
ADV PG 336	
ATLAS ENERGY SYSTEMS IRVINE CA	714-863-0900
ADV PGS 287,330	
CLARKE-HESS COMMUNICATIONS RESEARCH	
NEW YORK NY	212-255-2940
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ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
ELGAR CORP AN ONAN OPERATING UNIT	
SAN DIEGO CA	619-450-0085
ADV PG 337	
JOHN FRANEK CO INC IRVINE CA	714-261-5377
ADV PG 331	
INSTRUMENTS INC SAN DIEGO CA	619-571-1111
MURATA ERIE NORTH AMERICA INC	
SMYRNA GA	404-436-1300
ADV PG 342	
Abacus Controls Inc Somerville NJ	201-526-6010
Atlas Energy Systems Irvine CA	714-863-0900
Avionic Instrument Inc Rahway NJ	201-388-5500
Aviel Div Unirion Inc Dallas TX	214-340-8600
Behlman Engineering Carpinteria CA	805-684-8311
Bendix Electric Power Div Eatontown NJ	201-542-2000
California Instruments San Diego CA	619-279-8620
Clarke-Hess Communications Research	
New York NY	212-255-2940
CML Macarr Div Brooklyn NY	718-857-2400
Design Automation Inc Lexington MA	617-862-8998
Detroit Diesel Allison Div Detroit MI	313-592-5000
Dynamote Corp Seattle WA	206-282-1000
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Elgar Corp An Onan Operating Unit	
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John Franek Co Inc Irvine CA	714-261-5377
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hitrac Corp Flemington NJ	201-782-5525
Industrial Test Equipment Powertorn	
Port Washington NY	516-883-1700
Instruments Inc San Diego CA	619-571-1111
Lindberg/Cycle-Dyne Unit Gen Signal	
Chicago IL	312-942-2500
MCL Inc La Grange IL	312-354-4350
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Reeve Electronics Div Mellisa & Murray	
Chicago IL	312-670-0150
Teledyne Microelectronics Los Angeles CA	213-870-9831
Terado Corp St Paul MN	612-646-2868
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Spectrolab Inc Sylmar CA	818-365-4611

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EHRHORN TECHNOLOGICAL OPERATIONS INC	
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ADV PG 17	
Comdel Inc Beverly MA	617-927-3144
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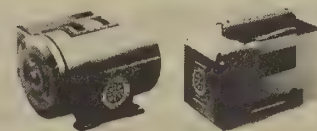
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ADV PGS 287,330	
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GEORATOR CORP MANASSAS VA	703-368-2101
ADV PG 333	
American Electronics Inc Fullerton CA	714-871-3020
Atlas Energy Systems Irvine CA	714-863-0900
Bendix Electric Power Div Eatontown NJ	201-542-2000
CML Macarr Div Brooklyn NY	718-857-2400
Detroit Diesel Allison Div Detroit MI	313-592-5000
Electro-Pacific Inc Goleta CA	805-964-4878
John Franek Co Inc Irvine CA	714-261-5377
Georator Corp Manassas VA	703-368-2101
Kato Engineering Co Div Reliance Elec	
Mankato MN	507-625-4011
Louis Allis Div MagneTek Inc Milwaukee WI	414-481-6000
Q-S Products Co Inc Seattle WA	206-937-5505
Stone Safety Corp Wallingford CT	203-265-7131
Tech Systems Corp Precise Power Div	
Thomaston CT	203-283-5801

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ADV PG 336	
AEG CORPORATION SOMERVILLE NJ	201-722-9800
ATLAS ENERGY SYSTEMS IRVINE CA	714-863-0900
ADV PGS 287,330	
ELECTRO POWERPACS CORP	
CAMBRIDGE MA	617-876-9220
ADV PG 334	
INTERELECTRONICS CORP CONGERS NY	914-358-8000
ADV PG 335	
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ	201-458-3000
Abacus Controls Inc Somerville NJ	201-526-6010
AEG Corporation Somerville NJ	201-722-9800
Atlas Energy Systems Irvine CA	714-863-0900
Bendix Electric Power Div Eatontown NJ	201-542-2000
Best Power Technology Inc Needah WI	608-565-7200
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Glentek Inc El Segundo CA	213-322-3026
Interelectronics Corp Congers NY	914-358-8000
Magneto Inc Holtsville NY	516-654-1166
Microwave Control Div Micon Inc Brick NJ	201-458-3000
MIL Electronics Inc Dracut MA	617-453-8000
Sanford Miller Corp Lynbrook NY	800-645-5900
Skyway Magnetics Warner Springs CA	619-782-3342
Sola Electric A Unit Of Gen Signal	
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Teledyne Microelectronics Los Angeles CA	213-870-9831
Transducer Systems Inc Kulpville PA	215-256-4611

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CML MACARR DIV BROOKLYN NY.....	718-857-2400
DEL ELECTRONICS CORP	
MT VERNON NY.....	914-699-2000
ADV PG 336,342	
ELECTRO POWERPACS CORP	
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ADV PG 334	
ELGAR CORP AN ONAN OPERATING UNIT	
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ADV PG 337	
ENDICOTT RESEARCH GROUP INC	
ENDICOTT NY.....	607-754-9187
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EPSCO INC ADDISON IL.....	312-543-0410
ADV PG 340	
JOHN FRANEK CO INC IRVINE CA.....	714-261-5377
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INTERELECTRONICS CORP CONGERS NY.....	914-358-8000
ADV PG 335	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
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PALISADES PARK NJ.....	201-944-2221
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Fincor Inc Int'l Inc York PA.....	717-757-4641
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General Power Systems Div ALS Corp	
Anaheim CA.....	714-956-9321
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Trio Laboratories Inc Plainview NY.....	516-349-04
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Ulveco Electronics Inc Foster City CA.....	415-574-11
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Meter Listings

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Wattmeters

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See Regulators

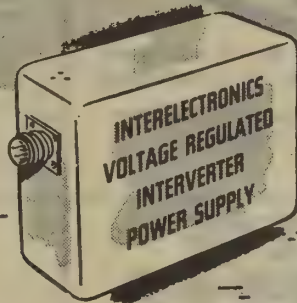
POWER SUPPLIES, AC TO AC—REGULATED (EXCEPT MOTOR-GENERATOR SETS & POWER CONVERTERS)

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Boeing Electronics Tukwila WA.....	206-575-5755
Bruce Electric Equipment Corp	
Lindenhurst NY.....	516-226-24
California Instruments San Diego CA.....	619-279-86
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Chloride Electric Networks Caledonia NY.....	716-538-4421
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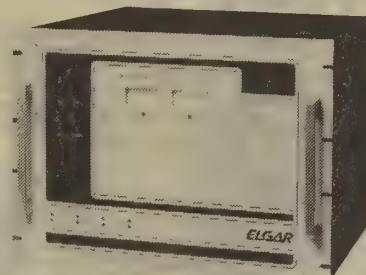
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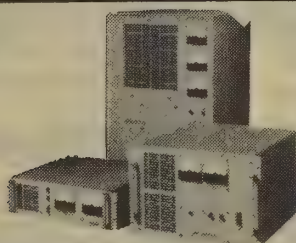
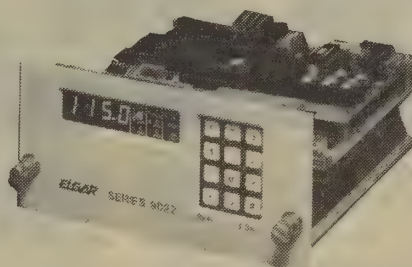


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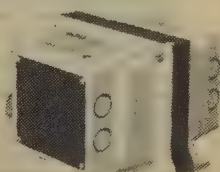
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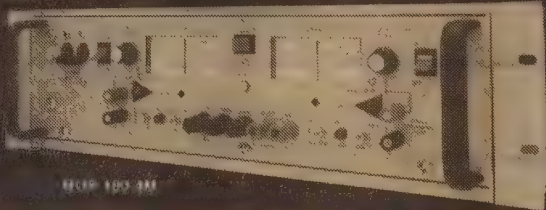
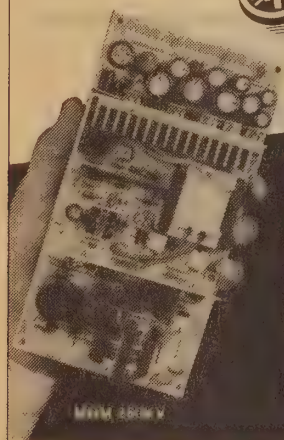
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stern Electronics Mfg Corp	
East Hartford CT	203-528-9821
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ctro Industries Inc Chicago IL	312-736-0999
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ctronic Measurements Inc Neptune NJ	201-922-9300
ctronic Research Assocs Inc	
Monachine NJ	201-641-3650
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Electro-Pacific Inc Goleta CA	805-964-4878
Electro Powerpacs Corp Cambridge MA	617-876-9220
Electrostatics Inc San Diego CA	619-279-1414
Elgin Electronics Erie PA	814-864-4921
Elma Engineering Palo Alto CA	415-494-7303
Elpac Power Systems Santa Ana CA	714-979-4440
Emco High Voltage Sutter Creek CA	209-223-3626
Emerson Industrial Controls Santa Ana CA	714-545-5581
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Gulton Industries Inc Engrd Magnetics Div	
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Hammond Mfg Co Inc Buffalo NY	716-894-5710
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Hellonetics Inc Delta Elctn Control Div	
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Intronics Inc Newton MA	617-964-4000
ITT PowerSystems Corp Gallion OH	419-468-8100
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Kaiser Systems Inc Beverly MA	617-992-9300
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KEC Electronics Inc Torrance CA	213-320-3902
Keltec Florida Div Amstar Tech Prods Co Inc	
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Ten-Tec Inc Sevierville TN	615-453-7
Texmate Inc Solana Beach CA	619-481-7
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Torotron Corp Mt Vernon NY	914-664-20
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TRW Electronic Assemblies Div Wheeling IL	312-319-05
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Tucker Electronics Co Garland TX	214-348-88
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ADV PGS 336,340	
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ADV PGS 336,342	
ELECTRO INDUSTRIES INC CHICAGO IL	312-736-09
ADV PG 342	
ELECTRO POWERPACS CORP CAMBRIDGE MA	617-876-92
ADV PG 334	
EMCO HIGH VOLTAGE SUTTER CREEK CA	209-223-36
ADV PGS 344,355	
EPSCO INC ADDISON IL	312-543-04
ADV PG 340	
JOHN FRANEK CO INC IRVINE CA	714-261-93
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HIPOTRONICS INC BREWSTER NY	914-279-80
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MICROWAVE CONTROL DIV MICON INC BRICK NJ	201-458-30
MULTI PRODUCTS INTERNATIONAL CEDAR GROVE NJ	201-239-81
OMEGA ENGINEERING INC STAMFORD CT	203-359-16
ADV PG Gatefold	
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ADV PG 493	
POWER DESIGNS INC WESTBURY NY	516-333-62
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TEXMATE INC SOLANA BEACH CA	619-481-71
ADV PGS 268,269	
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AAK Corp Haverhill MA	617-373-37
Abbott Transistor Labs Power Supply Div Los Angeles CA	213-936-81
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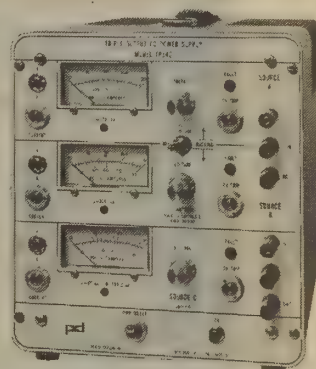
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MODEL TP343A • MODEL TP340

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Less than 1mV P-P

Independent adjustment of each output voltage or automatic tracking of both A and B Sources (selectable by panel mounted switch)



PARAMETER	MODEL TP343A SOURCE A & B	MODEL TP340 SOURCE A & B	BOTH MODELS SOURCE C
INPUT:	105-125, 58-440 Hz.	105-125, 58-440 Hz	
OUTPUT	0-20V, 0-2.5A	0-32V, 0-1A	0-6V, 0-5A/0-15V, 0-2.5A
LOAD REGULATION:	0.01% + 1 mV per amp	0.01% + 1 mV	0.01% + 1 mV per amp
LINE REGULATION:	0.01% + 0.5 mV	0.01% + 0.5 mV	0.01% + 0.5 mV
STABILITY	0.02% + 1 mV	0.02% + 1 mV	0.02% + 1 mV
RECOVERY TIME	100 μ s	50 μ s	100 μ s
CURRENT LIMIT	2%-105% of rated current	2%-105% of rated current	2%-105% of rated current
TEMP. RANGE	0-50°C	0-50°C	0-50°C
TEMP. COEFFICIENT	0.02% + 300 μ V/°C	0.02% + 300 μ V/°C	0.02% + 300 μ V/°C
OV CROWBAR	Adj. 3-30V	Adj. 3-40V	Adj. 3-20V
TRACKING	0.1% + 10 mV by front panel switch	0.1% + 10 mV by front panel switch	
VOLTAGE CONTROLS	10 turn potentiometer	10 turn potentiometer	10 turn potentiometer
FAULT INDICATORS	Lamp indicates short circuit and overload	Lamp indicates short circuit and overload	Lamp indicates short circuit and overload
METERING	Dual range volt/ammeter	Dual range volt/ammeter	Dual range volt/ammeter



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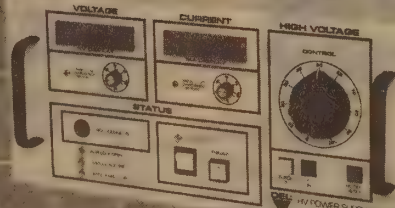
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Sager Hingham MA	617-749-67
Sanford Miller Corp Lynbrook NY	800-645-55
Sargent-Welch Scientific Co Skokie IL	312-677-06
Sel-Rex/OMI Int'l Corp Nutley NJ	201-667-52
Shokai Far East Ltd Hartsdale NY	914-681-07
Sierracin/Power Systems Chatsworth CA	818-998-96
Sigmapower Inc Carson CA	213-327-44
S K G Associates Inc Norwell MA	617-878-72
Skyway Magnetics Warner Springs CA	619-782-33
Sola Electric A Unit Of Gen Signal	
Elk Grove Village IL	312-439-99
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ADV PG 344	
DEL ELECTRONICS CORP	
MT VERNON NY	914-699-20
ADV PGS 336,342	
ELECTRO POWERPACS CORP	
CAMBRIDGE MA	617-876-92
ADV PG 334	
EMCO HIGH VOLTAGE SUTTER CREEK CA	209-223-36
ADV PGS 344,355	
JOHN FRANEK CO INC IRVINE CA	714-261-53
ADV PG 331	
GEORATOR CORP MANASSAS VA	703-368-21
HIPOTRONICS INC BREWSTER NY	914-279-80
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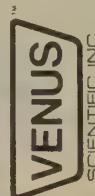
Standard Products "Quick" Selection Chart

MODEL NO.	Output Proportional to Input	Floating Bias Supply	Multiple Output	Low Power Battery Operated	PMT	CRT	Focus	Dynamic Focus	Switching Penetration	X-Ray Microscope	High Alt. Version	Volume in Cubic Inches	Output Voltage Range						Max. current rating
													5kV	10kV	15kV	20kV	25kV	30kV	
C-1/2	✓		✓									3	Center tapped						37mA
C-2T	✓		✓									3	Center tapped						8mA
C-8T	✓		✓				✓					3	Center tapped						2mA
C-15	✓		✓				✓					3	Center tapped						1mA
C-30	✓		✓				✓					3							500uA
CS-18	✓		✓				✓		✓			180							200uA
CS-18/DF	✓		✓				✓		✓			382							500uA
DF-18	✓		✓				✓					314							500uA
F-6	✓		✓									7							16mA
F-12	✓		✓									7							8mA
F-25	✓		✓									7							4mA
F-50	✓		✓									7							2mA
F-50A	✓		✓									7							500uA
G-6	✓		✓									15							500uA
G-10	✓		✓									15							500uA
G-12	✓		✓									15							500uA
H-16F	✓		✓				✓					31							500uA
H-20	✓		✓									31							500uA
H-20N	✓		✓									31							500uA
H-30	✓		✓									44							300uA
K-15(Z)	✓		✓				✓					2							1mA
K-30(Z)	✓		✓				✓					2							500uA
LR-2	✓		✓									33							10mA
LR-2N	✓		✓									33							10mA
LR-3	✓		✓									33							6.6mA
LR-3H	✓		✓									33							6.6mA
LR-6	✓		✓									33							3.3mA
LR-15	✓		✓				✓					33							1.3mA
LR-20	✓		✓				✓					33							1mA
LU-15	✓		✓				✓					27							300uA
MG-3	✓		✓									7							1mA
MG-12	✓		✓									7							500uA
MR-15	✓		✓				✓					33							1.3mA
MR-20	✓		✓				✓					33							1mA
O-15(Z)	✓		✓				✓					3							400uA
O-30(Z)	✓		✓				✓					3							200uA
SW-25	✓		✓				✓					97							10uA
ST-10N	✓		✓				✓					7							10uA

Above current ratings proportional to output voltage when units are operated at less than rated output voltage. *NOTE: Contact Factory

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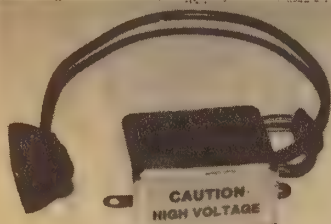
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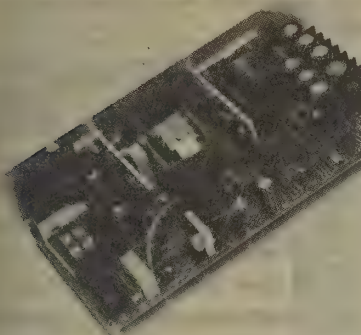
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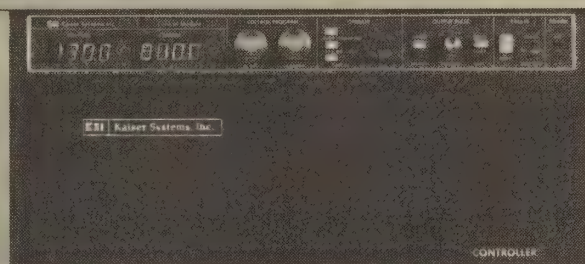
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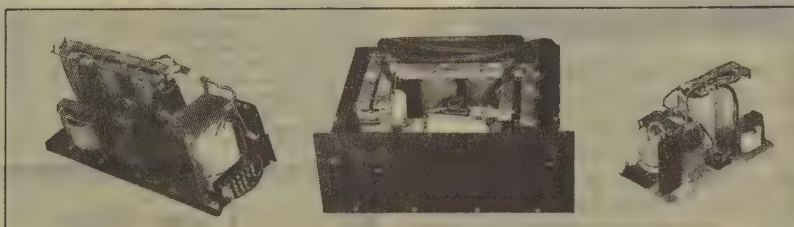
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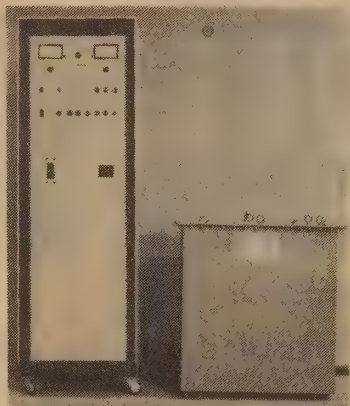
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Keltec Florida Div Amstar Tech Prods Co Inc Fort Walton Bch FL	904-244-00
Keltron Corp Waltham MA	617-894-87
Keppo Inc Flushing NY	718-461-70

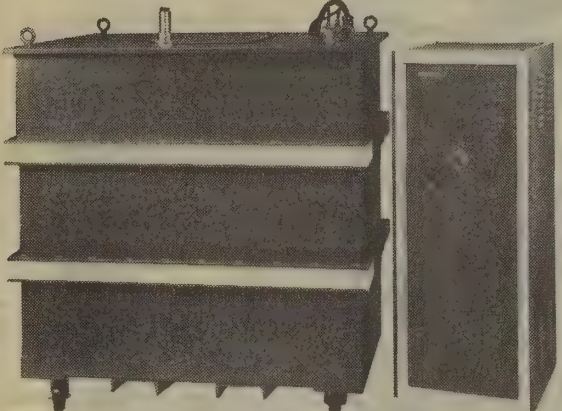
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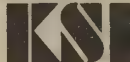
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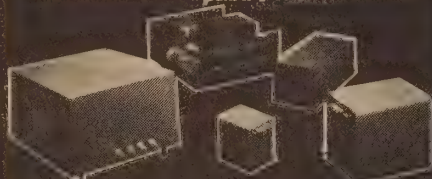
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Innovation Industries Inc Russellville AR.....	501-968-2232
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California DC Newbury Park CA.....	818-706-88
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San Luis Obispo CA.....	805-544-55

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CEI Corp Londonderry NH.....	800-DCPOV
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Condor Inc Camarillo CA.....	805-484-28
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Conver Corp Cupertino CA.....	408-255-00
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Cooper Laser Sonics-Power Supply Oper	
Sunnyvale CA.....	408-732-99

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C-Tek Inc Wakefield MA.....	617-246-11
Databyte Technology Inc Alhambra CA.....	818-289-22
Datatron Labs Inc Sussex NJ.....	914-856-44
D & B Power Inc Bayshore NY.....	516-586-55
Del Electronics Corp Mt Vernon NY.....	914-699-22
Delta Products Corp Milpitas CA.....	408-262-22
Deltron Inc North Wales PA.....	215-699-93
Design Automation Inc Lexington MA.....	617-862-88
Displex Inc Glen Cove NY.....	516-671-44
DNH Industries Inc Torrance CA.....	213-328-00
Dynamic Controls Corp South Windsor CT.....	203-528-99
Eastern Delta Corp Nutley NJ.....	201-667-88
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Eldec Corp Lynnwood WA.....	206-743-11
Electro Industries Inc Chicago IL.....	312-736-09
Electro-Mech Co Colorado Springs CO.....	303-597-16
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Electronic Measurements Inc Neptune NJ.....	201-922-99
Electronic Research Assocs Inc	
Moonachie NJ.....	201-641-36

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National Power Technology Anaheim CA.....	714-937-11
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OPT Industries Inc Phillipsburg NJ.....	201-454-21

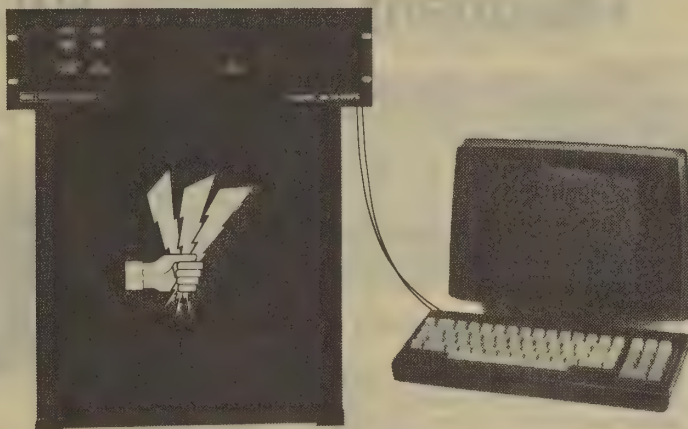
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ASCII spoken here.



Computer-controlled high voltage

• RS-232 • Light Link • IEEE 488



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NJE Corp Dayton NJ.....	201-329-4611	
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Spellman

 Spellman High Voltage Electronics Corporation
 7 Fairchild Avenue, Plainview, NY 11803 • (516) 349-8686 • TWX: 510-221-2155 • Cable SPELLTRON NEWYORK

RHP SERIES

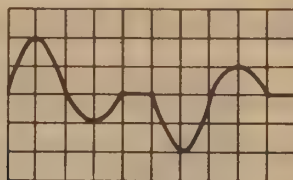
Resonant Inverter HV Power Supplies

FEATURES

- Low Stored Energy
- 0.02% Voltage Regulation
- 0.1% RMS Ripple
- Low RFI and EMI
- Arc, Short Circuit, and Reverse Voltage Protected
- Easy Parallel Operation
- Wide Range of Options

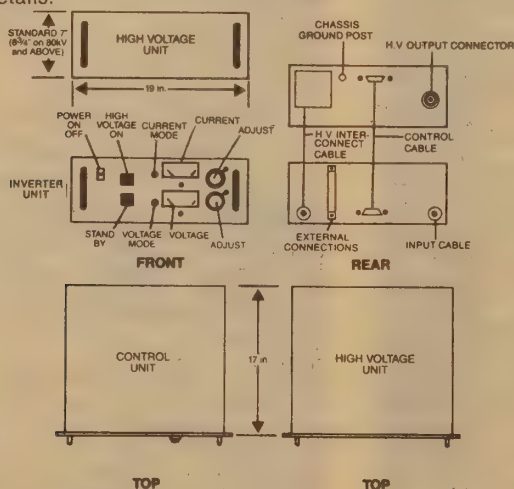
THEORY OF OPERATION

The Spellman RHP power supply is the first commercially available design to use a pure sine-wave current source produced by a series resonant circuit to generate high voltage power at switching frequencies higher than 20 kHz.



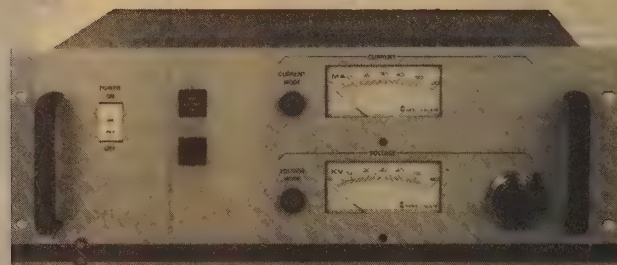
CONSTRUCTION

Two part construction is provided for all models. The high voltage chassis and inverter chassis are housed in rack mounted enclosures measuring 7" H x 19" W x 19" D. On 80 kV, 100 kV and 120 kV units, the high voltage chassis height increases to 8 3/4". Higher voltage models are also available. Consult factory for details.



SPECIFICATIONS

Input: 208 Volts AC $\pm 10\%$ Three Phase 50-60 Hz
 Line Regulation: $\pm 0.01\%$ for $\pm 10\%$ Line Change
 Load Regulation: 0.02% for Full Load Change
 Ripple: 0.1% RMS
 Stability: 0.02% / Hr, 0.05% / 8 Hrs
 Service Condition: 0°C to +50°C Operating
 -40°C to +85°C Storage
 Metering: Single Range kV Meter
 Single Range mA Meter Both 2% Accuracy



The waveform shows the typical current in the power circuit starting and stopping at zero, which eliminates undesirable electromagnetic radiation normally associated with switching and phase control regulators. Turn on and turn off of the power switch at zero current also effectively eliminates SCR switching losses resulting in input to output efficiencies of: previously unattainable in regulated power supplies using conventional technology.

90%

RHP 3KW SERIES MODELS

Model	Polarity	Output Voltage	Output Current (mA)
RHP3P3	Pos.	0-3KV	1000
RHP3N3	Neg.	0-3KV	1000
RHP6P3	Pos.	0-6KV	500
RHP6N3	Neg.	0-6KV	500
RHP10P3	Pos.	0-10KV	300
RHP10N3	Neg.	0-10KV	300
RHP15P3	Pos.	0-15KV	200
RHP15N3	Neg.	0-15KV	200
RHP20P3	Pos.	0-20KV	150
RHP20N3	Neg.	0-20KV	150
RHP30P3	Pos.	0-30KV	100
RHP30N3	Neg.	0-30KV	100
RHP40P3	Pos.	0-40KV	75
RHP40N3	Neg.	0-40KV	75
RHP50P3	Pos.	0-50KV	60
RHP50N3	Neg.	0-50KV	60
RHP60P3	Pos.	0-60KV	50
RHP60N3	Neg.	0-60KV	50
RHP80P3	Pos.	0-80KV	40
RHP80N3	Neg.	0-80KV	40
RHP100P3	Pos.	0-100KV	30
RHP100N3	Neg.	0-100KV	30
RHP120P3	Pos.	0-120KV	25
RHP120N3	Neg.	0-120KV	25
RHP150P3	Pos.	0-150KV	20
RHP150N3	Neg.	0-150KV	20
RHP180P3	Pos.	0-180KV	16
RHP180N3	Neg.	0-180KV	16
RHP200P3	Pos.	0-200KV	15
RHP200N3	Neg.	0-200KV	15

6, 10 and 15 kilowatt models also available. Consult factory for details.



Spellman High Voltage Electronics Corporation

7 Fairchild Avenue, Plainview, NY 11803 • (516) 349-8686 • TWX: 510-221-2155 • Cable SPELLTRON NEWYORK

RHR SERIES

Medium Power HV Power Supplies

FEATURES

- Over 100 Models Available from 5-400 kV, 10-500 Watts
- Excellent Regulation
- Low Ripple
- Low RFI due to Sinewave Operation
- Low Stored Energy
- Overload and Short Circuit Protected
- Three Year Warranty

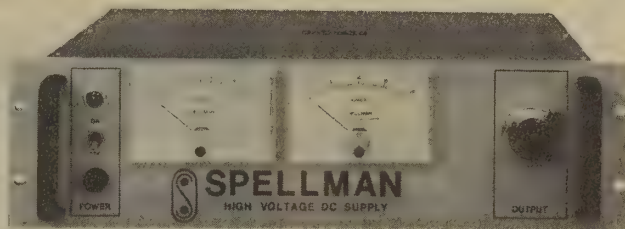
Options are available to adapt the unit to each specific requirement. Options include remote voltage programming, remote voltage and current monitoring, current regulation and external interlock. Contact factory for further details.

SPECIFICATIONS

Input: 105-125 VAC 50-60 Hz

Output: The voltage is continuously adjustable over entire range from zero to maximum rated voltage by means of a 10-turn potentiometer. Fixed and reversible polarity outputs are available. See chart for specific models.

Load Regulation: 0.01% +1V for a full load change



SPECIFICATIONS: Continued

Line Regulation: $\pm 0.01\%$ $\pm 1V$ for a $\pm 10\%$ line change

Ripple: 0.02% + 2 VRMS Models 100 kV and above are 0.1% RMS

Stability: 0.02% +2V/Hr, 0.05% +5V over 8 Hrs.

Metering: Analog voltage and analog current meters
2% accuracy

Physical: All units with ratings up to 100 kV are designed for 19" rack mounting (see chart); over 100 kV, the unit consists of a driver, a remote control panel (rack mountable with 15' cable length) and a high voltage multiplier stack. (Consult factory for outline dimensions and mounting instructions).

STANDARD MODELS

Max. Ratings			Model Number	Height ⁽¹⁾ in (cm)	Net Weight lbs. (kg)	
kV	mA	W			Fixed Pol.	Rev. Pol.
5	2	10	RHR5*10	5¼ (13.3)	25 (12)	25 (12)
5	6	30	RHR5*30	5¼ (13.3)	30 (14)	25 (12)
5	10	50	RHR5*50	5¼ (13.3)	30 (14)	30 (14)
5	20	100	RHR5*100	5¼ (13.3)	55 (25)	60 (27)
5	30	150	RHR5*150	5¼ (13.3)	70 (32)	75 (34)
10	1	10	RHR10*10	5¼ (13.3)	25 (12)	25 (12)
10	3	30	RHR10*30	5¼ (13.3)	30 (14)	25 (12)
10	6	60	RHR10*60	5¼ (13.3)	30 (14)	30 (14)
10	10	100	RHR10*100	5¼ (13.3)	30 (14)	30 (14)
10	20	200	RHR10*200	10½ (26.7)	55 (25)	60 (27)
10	30	300	RHR10*300	10½ (26.7)	60 (27)	70 (32)
10	50	500	RHR10*500	15¾ (40)	90 (41)	95 (43)
15	0.67	10	RHR15*10	5¼ (13.3)	25 (12)	25 (12)
15	2	30	RHR15*30	5¼ (13.3)	25 (12)	25 (12)
15	4	60	RHR15*60	5¼ (13.3)	30 (14)	30 (14)
15	8	120	RHR15*120	5¼ (13.3)	30 (14)	30 (14)
15	15	225	RHR15*225	10½ (26.7)	55 (25)	60 (27)
15	30	450	RHR15*450	15¾ (40)	90 (41)	95 (43)
20	0.5	10	RHR20*10	5¼ (13.3)	25 (12)	25 (12)
20	1.5	30	RHR20*30	5¼ (13.3)	25 (12)	25 (12)
20	3	60	RHR20*60	5¼ (13.3)	30 (14)	30 (14)
20	6	120	RHR20*120	5¼ (13.3)	30 (14)	30 (14)
20	12	240	RHR20*240	10½ (26.7)	55 (25)	60 (27)
20	24	480	RHR20*480	15¾ (40)	90 (41)	95 (43)
30	0.33	10	RHR30*10	5¼ (13.3)	25 (12)	25 (12)
30	1	30	RHR30*30	5¼ (13.3)	25 (12)	25 (12)
30	2	60	RHR30*60	5¼ (13.3)	30 (14)	30 (14)
30	4	120	RHR30*120	5¼ (13.3)	30 (14)	30 (14)
30	5	150	RHR30*150	5¼ (13.3)	50 (23)	55 (25)
30	8	240	RHR30*240	10½ (26.7)	55 (25)	60 (27)
30	16	280	RHR30*480	15¾ (40)	90 (41)	95 (43)
40	0.75	30	RHR40*30	5¼ (13.3)	40 (18)	40 (18)
40	1.5	60	RHR40*60	5¼ (13.3)	40 (18)	40 (18)
40	3	120	RHR40*120	5¼ (13.3)	40 (18)	40 (18)
40	6	240	RHR40*240	10½ (26.7)	60 (27)	60 (27)
40	12	480	RHR40*480	15¾ (40)	90 (41)	95 (43)

Max. Ratings			Model Number	Height ⁽¹⁾ in (cm)	Net Weight lbs. (kg)	
kV	mA	W			Fixed Pol.	Rev. Pol.
50	0.5	25	RHR50*25	5¼ (13.3)	40 (18)	52 (24)
50	1	50	RHR50*50	5¼ (13.3)	40 (18)	52 (24)
50	3	150	RHR50*150	8¾ (22.2)	55 (25)	70 (32)
50	5	250	RHR50*250	10½ (26.7)	60 (27)	75 (34)
50	10	500	RHR50*500	15¾ (40)	90 (41)	95 (43)
60	0.5	30	RHR60*30	5¼ (13.3)	40 (18)	52 (24)
60	1	60	RHR60*60	5¼ (13.3)	40 (18)	52 (24)
60	2	120	RHR60*120	5¼ (13.3)	40 (18)	52 (24)
60	4	240	RHR60*240	10½ (26.7)	60 (27)	75 (34)
60	8	480	RHR60*480	15¾ (40)	90 (41)	95 (43)
80	1	80	RHR80*80	8¾ (22.2)	52 (24)	52 (24)
80	3	240	RHR80*240	10½ (26.7)	72 (33)	75 (34)
80	6	480	RHR80*480	15¾ (40)	108 (49)	115 (52)
100	1	100	RHR100*100	8¾ (22.2)	52 (24)	52 (24)
100	1.5	150	RHR100*150	8¾ (22.2)	69 (31)	70 (32)
100	2	200	RHR100*200	10½ (26.7)	72 (33)	75 (34)
100	5	500	RHR100*500	15¾ (40)	108 (49)	115 (52)
150	1	150	RHR150*150	34 (86.4)	125 (57)	—(2)—
150	2	300	RHR150*300	40 (101.6)	145 (66)	—(2)—
200	0.5	100	RHR200*100	34 (86.4)	150 (68)	—(2)—
200	1	200	RHR200*200	34 (86.4)	170 (77)	—(2)—
300	0.5	150	RHR300*150	48 (122)	175 (80)	—(2)—
300	1	300	RHR300*300	60 (155.4)	200 (91)	—(2)—
400	0.5	200	RHR400*200	48 (122)	225 (102)	—(2)—
400	1	400	RHR400*400	60 (155.4)	225 (102)	—(2)—

* Specify "P" for positive polarity, "N" for negative polarity or "PN" for reversible polarity; note some models not available in "PN".

(1) All units are configured for mounting in a standard 19 inch rack and are 16½ inches deep.

(2) Consult the factory for size and weight of units with reversible polarity over 100 kV (stack units).

HOW TO SPECIFY

(series) (max. HV) (polarity) (Watts) / (opt.) / (opt.) /
(sample) RHR 10 - PN 30 / RVC / TP /
RHR10PN30/RVC/TP/...etc.



Spellman High Voltage Electronics Corporation

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WRM SERIES
CUSTOM DESIGNS
HVD SERIES

WRM SERIES-Well Regulated Modular HV Power Supplies

SPECIFICATIONS

Input: +28 Vdc $\pm 10\%$

Output: (See chart) variable from zero to maximum by external resistive divide of voltage (floating or grounded)

Line Regulation: $\pm 0.01\%$ for $\pm 10\%$ line voltage change

Load Regulation: 0.05% from zero to full load change

Protection: Overload, short circuit, arc and reverse voltage

Ripple: 1.5/3 W — 0.01% RMS

6 W — 0.02% RMS

10 W — 0.03% RMS

30 W — 0.1% RMS

Temperature: Operating 0-50°C case

Storage —30°C to +85°C



MODELS

Model Number	High Voltage Output		Size
	Voltage	Current	
WRM1.5*1500D	0-1.5 kV	1.0 mA	Consult Factory
WRM1.5*3000D	0-1.5 kV	2.0 mA	
WRM1.5*6000D	0-1.5 kV	4.0 mA	
WRM1.5*10KD	0-1.5 kV	6.0 mA	
WRM1.5*15KD	0-1.5 kV	10.0 mA	
WRM3*1500D	0-3 kV	0.5 mA	Consult Factory
WRM3*3000D	0-3 kV	1.0 mA	
WRM3*6000D	0-3 kV	2.0 mA	
WRM3*10KD	0-3 kV	3.0 mA	
WRM3*30KD	0-3 kV	10.0 mA	
WRM6*1500D	0-6 kV	0.25 mA	Consult Factory
WRM6*3000D	0-6 kV	0.5 mA	
WRM6*6000D	0-6 kV	1.0 mA	
WRM6*10KD	0-6 kV	1.5 mA	
WRM6*30KD	0-6 kV	5.0 mA	
WRM9*1500D	0-9 kV	0.15 mA	Consult Factory
WRM9*3000D	0-9 kV	0.3 mA	
WRM9*6000D	0-9 kV	0.6 mA	
WRM9*10KD	0-9 kV	1.0 mA	
WRM9*30KD	0-9 kV	3.3 mA	
WRM12*1500D	0-12 kV	0.15 mA	Consult Factory
WRM12*3000D	0-12 kV	0.3 mA	
WRM12*6000D	0-12 kV	0.6 mA	
WRM12*10KD	0-12 kV	0.8 mA	
WRM12*30KD	0-12 kV	2.5 mA	

Model Number	High Voltage Output		Size
	Voltage	Current	
WRM15*1500D	0-15 kV	0.1 mA	Consult Factory
WRM15*3000D	0-15 kV	0.2 mA	
WRM15*6000D	0-15 kV	0.4 mA	
WRM15*10KD	0-15 kV	0.6 mA	
WRM15*30KD	0-15 kV	2.0 mA	
WRM18*1500D	0-18 kV	0.08 mA	Consult Factory
WRM18*3000D	0-18 kV	0.16 mA	
WRM18*6000D	0-18 kV	0.3 mA	
WRM18*10KD	0-18 kV	0.5 mA	
WRM18*30KD	0-18 kV	1.6 mA	
WRM20*1500D	0-20 kV	0.07 mA	Consult Factory
WRM20*3000D	0-20 kV	0.15 mA	
WRM20*6000D	0-20 kV	0.3 mA	
WRM20*10KD	0-20 kV	0.5 mA	
WRM20*30KD	0-20 kV	1.5 mA	
WRM24*1500D	0-24 kV	0.06 mA	Consult Factory
WRM24*3000D	0-24 kV	0.12 mA	
WRM24*6000D	0-24 kV	0.24 mA	
WRM24*10KD	0-24 kV	0.4 mA	
WRM24*30KD	0-24 kV	1.25 mA	
WRM30*1500D	0-30 kV	0.05 mA	Consult Factory
WRM30*3000D	0-30 kV	0.1 mA	
WRM30*6000D	0-30 kV	0.2 mA	
WRM30*10KD	0-30 kV	0.3 mA	
WRM30*30KD	0-30 kV	1.0 mA	

* Specify "P" for positive output polarity, specify "N" for negative.

CUSTOM DESIGNS

X-RAY POWER SUPPLIES

High peak power up to 100 kW and continuous power up to 30 kW are available using resonant frequencies of 60 kHz and at repetition rates above 20 kHz. Typical applications include CT scanners, radiological equipment, x-ray lithography and industrial x-ray systems. Spellman's 30 kW CT scanner power systems includes a floating filament supply, emission control and built-in diagnostics.

CAPACITOR CHARGING SUPPLIES FOR LASERS

Spellman's rack mounted models are available for current mode operation to permit capacitor charging at a linear rate. Special models can be ordered for high power (up to 30 kW) when the capacitance is very high.

RESONANT INVERTERS FOR ION BEAM IMPLANTATION

The inherent short circuit protection characteristic of series resonant inverters is a most important advantage for ion beam implantation applications. Spellman power supplies are currently in use in medium and high power implanters, with models which include 600 W extraction supplies and acceleration supplies producing up to 180 kV and 55 mA. Custom designs up to 400 kV with multiple floating outputs can also be produced to special order.



HVD SERIES-Resistive Dividers

FEATURES ■ High Input Impedance ■ 0.5% Accuracy (Higher Accuracies Available)
■ 25 ppm Temperature Coefficient ■ Corona-free Operation

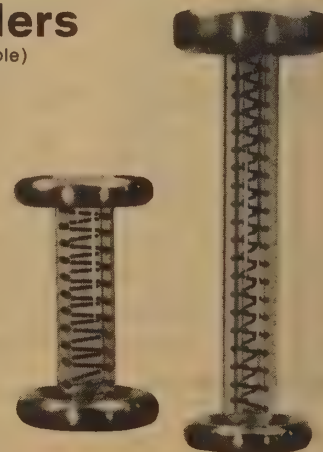
Spellman's Resistive Voltage Dividers provide laboratory or production facilities with a convenient method of measuring up to 100 kV or 200 kV with accuracy better than 0.5%. The Dividers are designed for use with standard digital and differential voltmeters.

SPECIFICATIONS

	Model HVD 100	Model HVD 200
Input Voltage:	0-100 kVdc	0-200 kVdc
Input Impedance:	1000 MEG	2000 MEG
Output Impedance:	1 MEG; 100 kohms	10 kohms
Output Taps:	100 V, 10 V	2 V
Accuracy:	0.5%; 0.1% opt ⁽¹⁾	0.5%; 0.25% opt ⁽²⁾
Stability:	0.01%/8 Hrs	0.025%/8 Hrs
Temperature Coefficient:	25 ppm/°C	25 ppm/°C
Size: Height	17½ in (44.5 cm)	33¼ in (84.5 cm)
Max. Dia.	10 in (25.4 cm)	12 in (30.5 cm)
Weight:	6¾ lbs (3.1 kg)	12 lbs (5.5 kg)
Output Connector:	BNC type	BNC type

(1) For accuracy of 0.1%, specify HVD100-1.

(2) For accuracy of 0.25%, specify HVD200-1.

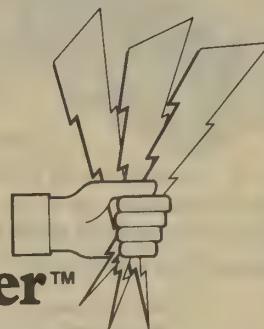
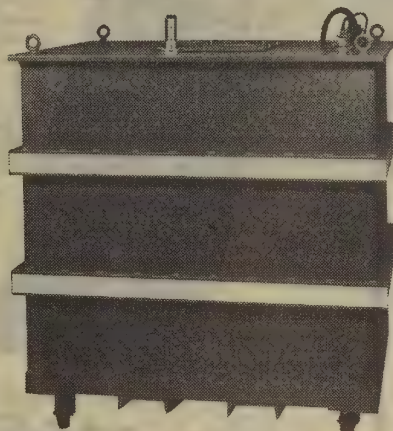


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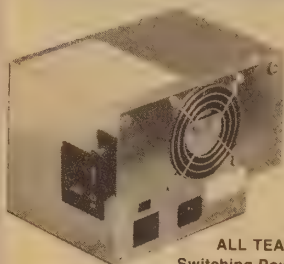
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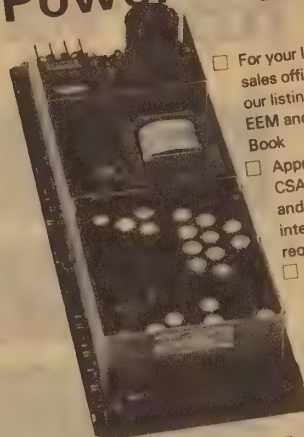
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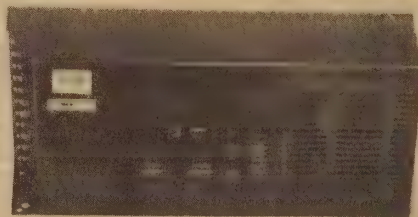
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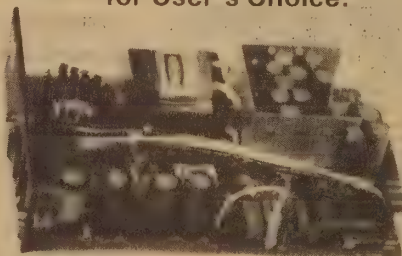
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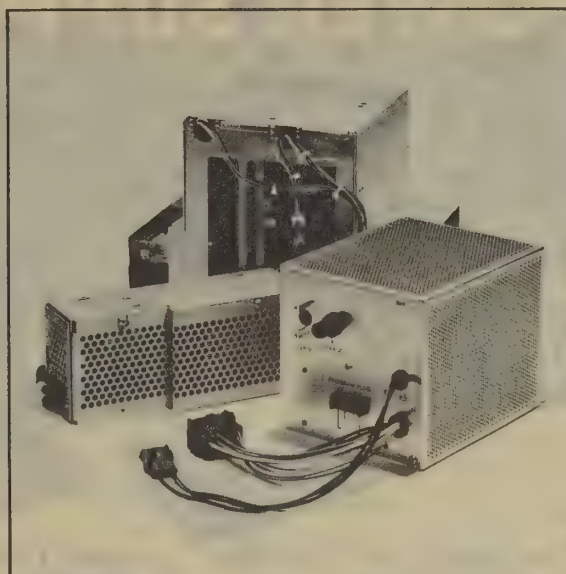
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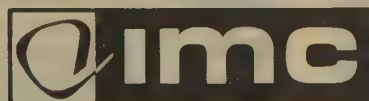


TYPICAL OUTPUTS

TOTAL OUTPUT POWER	OUTPUT #1		OUTPUT #2		OUTPUT #3		OUTPUT #4		
	V	I	V	I	V	I	V	I	
27w	+5	2.5	+12	1.2					+5V SHORT CIRCUIT, OVERVOLTAGE PROTECTION
40w	+5	6.0	+12	.4	-12	.4			OVERVOLTAGE PROTECTION SHORT CIRCUIT ALL OUTPUTS
41w	+5	4.0	+12	1.8					+5V OVERVOLTAGE PROTECTION SHORT CIRCUIT ALL OUTPUTS
47w	+5	6.0	+12	1.0	-12	.4			+5V OVERVOLTAGE PROTECTION SHORT CIRCUIT ALL OUTPUTS
60w	+5	6.5	+12	2.2					+5V OVERVOLTAGE PROTECTION SHORT CIRCUIT ALL OUTPUTS
80w	+5	8.0	+12	3.0	-12	.25			SHORT CIRCUIT ALL OUTPUTS CURRENT LIMIT +5V +12V
90w	+5	8.0	+12	4.0	-12	.25			+5V OVERVOLTAGE PROTECTION CURRENT LIMIT ALL OUTPUTS
122w	+5	9.5	+12	4.5	-12	1.7			+5V OVERVOLTAGE PROTECTION CURRENT LIMIT ALL OUTPUTS
145w	+5	12	-5	.7	+12	.7	-12	.7	SHORT CIRCUIT ALL OUTPUTS CURRENT LIMIT ALL OUTPUTS
180w	+5	18	-5	4	+24	1	+105	.4	SHORT CIRCUIT ALL OUTPUTS
190w	+5	20	-5	.3	+12	7	-12	.4	+5V OVERVOLTAGE PROTECTION SHORT CIRCUIT ALL OUTPUTS
300w	+5	50	+15	1	+15	1	+12	1.8	+5V OVERVOLTAGE PROTECTION SHORT CIRCUIT ALL OUTPUTS

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Westford MA.....	617-692-6000
Eldec Corp Lynnwood WA.....	206-743-1313
Electronic Research Assocs Inc.....	
Moonachie NJ.....	201-641-3650
Electro-Pacific Inc Goleta CA.....	805-964-4878
Emco High Voltage Sutter Creek CA.....	209-223-3626
Ferrotran Electronics Co Inc New York NY.....	212-691-3610
Fidelity Tech Inc Edison NJ.....	201-549-5721
Gamma High Voltage Research.....	
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Glassman High Voltage Inc.....	
Whitehouse Station NJ.....	201-534-9007
Ikegami Electronics USA Inc Maywood NJ.....	201-368-9171
Interelectronics Corp Congers NY.....	914-358-8000
International High Voltage Electronics Inc.....	
Danbury CT.....	203-792-7820
ITT PowerSystems Corp Gallon OH.....	419-468-8100
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Fort Walton Bch FL.....	904-244-0043
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MIL Electronics Inc Draut MA.....	617-453-8000
Modular Power Systems Inc Austin TX.....	512-834-9262
Murata Erie North America Inc Smyrna GA.....	404-436-1300
National Power Technology Anaheim CA.....	714-937-1301
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Penn Transformer Co Wingate PA.....	814-355-1521
Peschel Instruments Inc Cape Coral FL.....	813-574-3164
Pico Electronics Inc Mount Vernon NY.....	914-699-5514
Plastic Capacitors Inc Chicago IL.....	312-489-2229
Power General Corp Canton MA.....	617-828-6216
Power Pac Inc South Norwalk CT.....	203-866-4484
PTK Div Emerson Elec Co Los Osos CA.....	805-528-5858
Reich Associates Inc Plano TX.....	214-424-7904
RIL Electronics Inc Warrington PA.....	215-343-5075
Sierracin/Power Systems Chatsworth CA.....	818-998-9873
Soliton Devices Inc Semiconductor Group.....	
Riviera Beach FL.....	305-488-4311
Sparton of Canada Ltd London ON.....	519-455-6320
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Universal Voltronics Corp Mount Kisco NY.....	914-241-1300
Urban Electronics Dover MA.....	617-329-4068
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See Power Inverters; Dynamotors

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See Power Converters; Regulators

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AT&T COMPONENTS & ELECTRONIC SYSTEMS	
ALLEN TOWN PA.....	800-372-2447
DEL ELECTRONICS CORP	
MT VERNON NY.....	914-699-2000
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ELECTRO INDUSTRIES INC CHICAGO IL	312-736-0999
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INTERELECTRONICS CORP CONGERS NY	914-358-8000
ADV PG 335	
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ADV PGS 339, 341, 345, 347, 349, 351	
PICO ELECTRONICS INC MOUNT VERNON NY	914-699-5514
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ADV PG 348	
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AT & T Components & Electronic Systems Allentown PA	800-372-2447
Aydin Radar & EW Div San Jose CA	408-629-1100
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Power General Corp Canton MA	617-828-6216
Power Ten Inc Sunnyvale CA	408-738-5959
PPM Inc Cleveland OH	216-292-6006
Preferred Electronics Inc Westfield MA	413-568-2301
Qualidyne Systems Inc San Diego CA	619-575-1100
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HIPOTRONICS INC BREWSTER NY	914-279-8091
ADV PG 346	
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ADV PG 335	
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ADV PGS 339, 341, 345, 347, 349, 351	
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WALKER SCIENTIFIC INC WORCESTER MA	617-852-3674
Advanced High Voltage Co Inc Lancaster CA	818-997-7222
Aerotech Inc Pittsburgh PA	412-963-7470
Analog Modules Inc Longwood FL	305-339-4356
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ATR Electronics Inc St Paul MN	612-222-3791
Aydin Radar & EW Div San Jose CA	408-629-1100
Bertan Associates Inc Hicksville NY	516-433-3110
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CEA Berkleionics an EG & G Co San Luis Obispo CA	805-544-5454
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Computer Products Inc Power Conversion Grp Pompano Beach FL	305-974-5500
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Cooper Laser Sonics-Power Supply Oper Sunnyvale CA	408-732
Crestronics Div Applied Electro Technology Int Santa Ana CA	714-556
Del Electronics Corp Mt Vernon NY	914-699
Electronic Measurements Inc Neptune NJ	201-922
Electro-Pacific Inc Goleta CA	805-964
Elma Engineering Palo Alto CA	415-494
Emco High Voltage Sutter Creek CA	209-223
Ferrotran Electronics Co Inc New York NY	212-691
Gamma High Voltage Research Mt Vernon NY	914-667
Glassman High Voltage Inc Whitehouse Station NJ	201-534
Hipotonics Inc Brewster NY	914-279
Hughes Aircraft Co Ind Prods Div Carlsbad CA	619-931
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ADV PG 357	
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T T E INC LOS ANGELES CA	213-478-8
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ADV PG 354	
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Abbott Transistor Industrial Prods Div Sun Valley CA	818-504-0
Abbott Transistor Labs Power Supply Div Los Angeles CA	213-936-8
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Applied Controls Co Inc Fairfield NJ	201-227-5
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AT & T Components & Electronic Systems Allentown PA	800-372-2
Aydin Radar & EW Div San Jose CA	408-629-1
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Boschert Inc Sunnyvale CA	408-732-2
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d Products Corp Brentwood NY.....	516-231-3366
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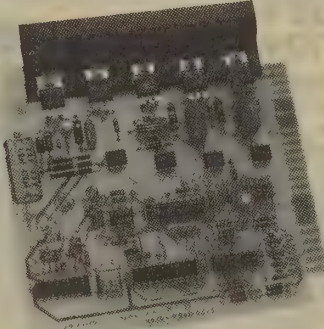
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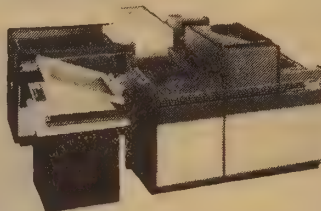
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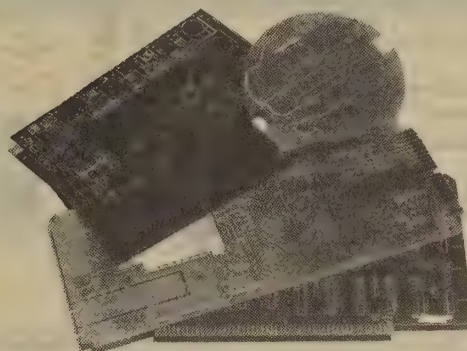
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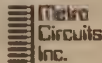
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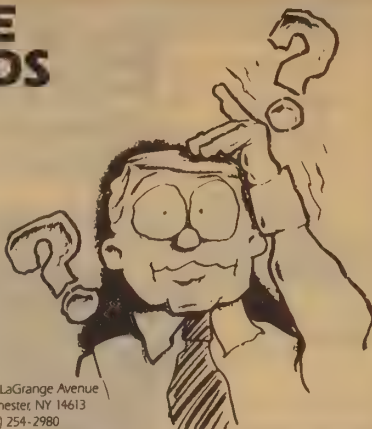
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TEKNECOMP SPA DIV ZINCOCELERE	
CAVAGLIA VC ITALY	161-96195
ADV PG 362	

Advance Conversion Devices Co Randolph NJ	201-989-0
Advanced Circuit Technology Inc Nashua NH	603-880-0
Astrom Corp St Paul MN	612-227-5
AT & T Components & Electronic Systems	
Allentown PA	800-372-2
Augat Microtec Newbury Park CA	805-498-9
Bearing Electronics Tukwila WA	206-575-5
Bureau of Engraving Inc Industrial Div	
Minneapolis MN	612-623-0
C A M Graphics Inc Farmingdale NY	516-694-1
CCI Omaha NE	402-592-8
Celtic Industries Inc Van Nuys CA	818-787-3
Cherry Electrical Products Corp Waukegan IL	312-662-9
Chomerics Inc Woburn MA	617-935-4
General Circuits Inc Rochester NY	716-235-2
GTI Corp Circuits Div Leesburg IN	219-453-
Hestia Industries & Technologies	
Santa Clara CA	408-737-
Hi-Tech Components/Mitsubishi Intl	
New York NY	212-605-2
Hughes Aircraft Co Connecting Devices Div	
Irvine CA	714-660-5
Hutchinson Technology Inc Hutchinson MN	612-587-3
Interconics Div BMC Industries Nashua NH	603-883-5
International Micro Industries Cherry Hill NJ	609-424-3
Keene Corp Laminates Div	
East Providence RI	401-434-2
Lamart Corp Clifton NJ	201-772-6
Leighton Electronics Inc Leighton PA	215-377-5
Lockheed-Georgia Co Marietta GA	404-424-4
Mantex Corp Oxford MI	313-628-9
Methode Electronics Inc Chicago IL	312-867-9
Minco Products Inc Minneapolis MN	612-571-3
Nitto Denko America Inc Port Washington NY	516-484-9
Nova-Tronix Inc Santa Clara CA	408-727-9
Optifab Inc Phoenix AZ	602-271-0
Pacific Industries Div D'Angelo Entrps	
Franklin Park IL	312-451-1
Parlex Corp Methuen MA	617-885-4
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Photofabrication Technology Inc Derry NH	603-432-1
Pierce Magnetics Los Angeles CA	213-264-7
Proto Systems Alpharetta GA	404-475-1
Rogers Corp Rogers CT	203-774-9
Sanders Associates Inc Nashua NH	603-885-4
Sheldahl Inc Northfield MN	507-663-8
Sierracin/Thermal Systems Bell CA	213-269-9
Speedy Circuits Inc Huntington Beach CA	714-898-4
Tech-Etch Inc Plymouth MA	617-747-0
Teknecomp SpA Div Zincocele	
Cavaglia VC Italy	161-961
Topflight Corp York PA	717-843-9

PRINTED CIRCUITS—MICROELECTRONIC

See ICs—Hybrid, Custom—Linear

PRINTED CIRCUITS—MULTILAYER (EXCEPT CERAMIC)

AT&T COMPONENTS & ELECTRONIC SYSTEMS	
ALLENTOWN PA	800-372-2
ADV PGS 363-365	
GENERAL TECHNOLOGY CORP	
ALBUQUERQUE NM	505-345-5
ADV PG 361	
METRO CIRCUITS INC ROCHESTER NY	716-254-2
ADV PG 362	
SANDERS ASSOCIATES INC NASHUA NH	603-885-4
SPEEDY CIRCUITS INC	
HUNTINGTON BEACH CA	714-898-4
ADV PG 362	
TEKNECOMP SPA DIV ZINCOCELERE	
CAVAGLIA VC ITALY	161-961
ADV PG 362	
Additive Products Div Kollmorgen Corp	
Aquebogue NY	516-722-4
Additive Technology Corp N Chelmsford MA	617-251-4
Algorex Corp Hauppauge NY	516-434-9
Astec (USA) Inc Santa Clara CA	408-748-1
Atlantic Coast Electronics Div Tyco Labs	
Pompano Beach FL	305-943-7
AT & T Components & Electronic Systems	
Allentown PA	800-372-2
Augat Inc Attleboro MA	617-222-2
Augat Microtec Newbury Park CA	805-498-9
Bartlett Mfg Co Inc Elk Grove Village IL	312-439-7
Basic Electronics Mfg Corp	
Round Lake Beach IL	312-546-8
BICC-Vero Electronics Inc Trumbull CT	203-372-0
Boeing Electronics Tukwila WA	206-575-5
Bureau of Engraving Inc Industrial Div	
Minneapolis MN	612-623-0
Celtic Industries Inc Van Nuys CA	818-787-3
Centerline Circuits Longmont CO	303-772-5
Circuit Service of NH Inc Lowell MA	617-452-1
Circuit Solve Ltd Milton Keynes England	0908-6488
Control Technology Div AirBorn Elect Corp	
Garland TX	214-272-5
CPC Inc Randolph MA	617-986-8
CTS Fabri-Tek Inc Eden Prairie MN	612-941-9
CTS Fabri-Tek Inc Connector Div	
New Hope MN	612-533-3
Electronic Controls Design Inc Mulino OR	503-829-9
Electronic Molding Corp Woonsocket RI	401-769-3
Enterprise Systems Corp Dover NH	603-742-7
Fema Electronics Corp East Brunswick NJ	201-238-1
Ferro-ECA Electronics Co Erie PA	814-838-2
General Circuits Inc Rochester NY	716-235-2
General Technology Corp Albuquerque NM	505-345-5
Hadco Corp Salem NH	608-898-8
Hestia Industries & Technologies	
Santa Clara CA	408-737-1

zincocelere

Professional Printed Circuits Group

INTERNATIONAL QUALITY STANDARDS SOURCE FOR RIGID, FLEXIBLE AND RIGID/FLEX HIGH TECH PRINTED CIRCUIT BOARDS.

UL - IPC - MIL - NATO - CECC - CNET - BT - ESA APPROVALS

TEKNECOMP S.p.A. - ZINCOCELERE DIV. - TEL. 0161/96195
VIA A. BERTONE, 12 - 13042 CAVAGLIA (VC) - TLX. 200039 ZINCO I



Multilayer Printed Wiring Boards

LEADERSHIP

... through automation. AT&T's Richmond plant offers high volume manufacturing capabilities that have been recognized industry-wide. Our efficient use of CAD/CAM allows downloading of computer files directly to manufacturing. This allows us to quickly update any **MLB** design while continuing high volume manufacture. For example, we can convert new design data directly to accurate laser generated artwork. This process is remarkably fast, yet still creates highly precise artwork for production.

The benefit to you of our highly automated, computer-controlled design and manufacturing processes is a higher quality **MLB** - one more way of providing total customer support.



For additional information, contact your AT&T Account Manager, or call:

☐ AT&T Technologies, 555 Union Boulevard, Dept. 50AL203140, Allentown, PA 18103

1-800-372-2447



Multilayer Printed Wiring Boards

TECHNOLOGY

... to produce high density multilayer boards. AT&T can accommodate your requirements with the following capabilities even on board sizes to 16½ x 23":

- . Line widths and spaces to 6 mils on surface and innerlayers
- . Plated-through hole sizes drilled to 13 mils
- . Buried microvias drilled to 8 mils
- . High aspect ratio drilling/plating (7:1)

If your design requirements are more complex, merely consult our applications engineers with your specifications.

AT&T's multilayer boards are UL approved. Available substrate materials include:

- . FR4
- . BT (Bismaleimide Triazine)

Various surface finishes are also available:

- . Fused Solder
- . SMOBC (Solder Mask Over



Bare Copper) with Hot Air Solder Leveling

- . Bare Copper (with solderability protection)
- . Gold Plating
- . Gold Plating Over Nickel
- . Gold Flashed - Palladium Plating Over Nickel

For additional information, contact your AT&T Account Manager, or call:

☐ AT&T Technologies, 555 Union Boulevard, Dept. 50AL203140, Allentown, PA 18103
1-800-372-2447



Multilayer Printed Wiring Boards

AT&T. A name synonymous with advanced technology outstanding reliability, and quality in high density multilayer printed wiring boards (MLBs) and backed by complete customer service.

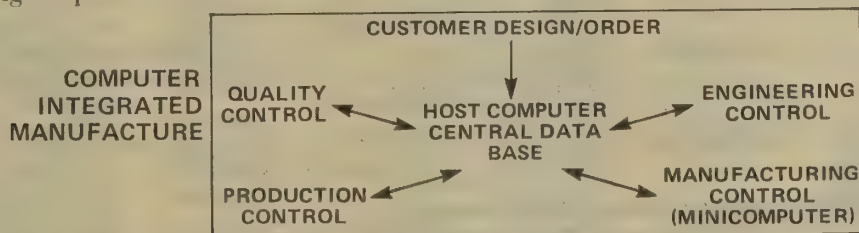
The foundation of AT&T's customer support for your MLBs is our team of applications engineers. Working closely with you from design-to-manufacture, they ensure a trouble-free introduction of your product into our automated facility. Extra effort and attention to every detail is our norm.

If you have special application requirements, AT&T supplies the resources to accommodate these needs. A separate prototype facility is available, offering fast turnaround of an MLB design by using leading-edge equipment and manufacturing techniques.

In whatever form your design information comes to us; be it digital data received over our computer network, magnetic tape, or single image artwork and a hole table; we can produce an MLB to fit your requirements.

Our extensive computer-integrated manufacturing system allows quick response to your requests for information on pricing, delivery, or job status. Owing to our highly automated production capabilities, we can also provide customized manufacturing intervals tailored to meet your turnaround requirements.

This same computer system schedules customer orders, tracks them through manufacture and ships your product as promised. We strive to ensure efficient delivery and reorder so that you receive your MLB on time to meet your marketing requirements.



For additional information, contact your AT&T Account Manager, or call:

☐ AT&T Technologies, 555 Union Boulevard, Dept. 50AL203140, Allentown, PA 18103
1-800-372-2447

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Hi-Tech Components/Mitsubishi Intl New York NY	212-605-2607
Hughes Aircraft Co Connecting Devices Div Irvine CA	714-660-5701
Innovative Circuits Inc Kansas City KS	913-321-0688
Interconnection Technology Inc Huntington Beach CA	714-891-5305
International Micro Industries Cherry Hill NJ	609-424-3111
Kalmus & Associates Broadview IL	312-343-7004
Kollmorgen Corp PCK Technology Div Melville NY	516-454-4400
Litton Industries Advanced Circuitry Div Springfield MO	417-862-0751
Lockheed Electronics Co Inc Plainfield NJ	201-757-1600
Lockheed-Georgia Co Marietta GA	404-424-4914
Mantex Corp Oxford MI	313-628-9711
Methode Electronics Inc Chicago IL	312-867-9600
Metro Circuits Inc Rochester NY	716-254-2980
Metropolitan Circuits Inc Santa Ana CA	714-549-2204
Microprop Ind Inc Garland TX	214-272-3571
Multi Plate Co Inc Dallas TX	214-243-1557
Multitwire Div Kollmorgen Corp Melville NY	516-391-4100
Optifab Inc Phoenix AZ	602-271-0921
Par Distributors Inc Bridgeport CT	203-366-7200
Parlex Corp Methuen MA	617-685-4341
PCI Inc Santa Clara CA	408-980-0591
Philips Electronic Comps & Matls Div Eindhoven Netherlands	040791111
Philway Products Inc Ashland OH	419-322-1587
Photocircuits Glen Cove Div Kollmorgen Corp Glen Cove NY	516-674-1000
Photofabrication Technology Inc Derry NH	603-432-1200
Pho-Tronics Div E R Wagner Mfg Co Milwaukee WI	414-355-6704
Precision Circuits Inc Langhorne PA	215-757-1202
Precision Circuits Inc Eatontown NJ	201-542-7400
Printed Circuit Corp Watertown MA	617-935-9570
Pro Systems Alpharetta GA	404-475-1330
Sanders Associates Inc Nashua NH	603-885-4321
SCI Systems Inc Huntsville AL	205-882-4800
Sierracin/Thermal Systems Bell CA	213-269-9100
Solid State Circuits Inc Springfield MO	417-869-4678
Speedy Circuits Inc Huntington Beach CA	714-898-4980
Stanford Applied Engineering Santa Clara CA	408-988-0700
Symtron Corp Mt View CA	415-965-4571
Teknecomp SpA Div Zincocelere Cavaglia VC Italy	161-96195
United Circuits/Vermont Inc Brattleboro VT	802-257-4571
Urban Electronics Dover MA	617-329-4068

PRINTED CIRCUITS—PLATED UP ON LAMINATE (NOT ETCHED)

Additive Products Div Kollmorgen Corp Aquebogue NY	516-722-4100
Additive Technology Corp N Chelmsford MA	617-251-4931
Augat Microtec Newbury Park CA	805-498-9643
Bureau of Engraving Inc Industrial Div Minneapolis MN	612-623-0900
Celtic Industries Inc Van Nuys CA	818-787-3615
Digitalan/Computron Inc Pasadena CA	818-791-5800
Electronic Trend Products Cupertino CA	408-986-7401
Hestia Industries & Technologies Santa Clara CA	408-737-1212
Kollmorgen Corp PCK Technology Div Melville NY	516-454-4400
Litton Industries Advanced Circuitry Div Springfield MO	417-862-0751
Mantex Corp Oxford MI	313-628-9711
Parlex Corp Methuen MA	617-685-4341
Philway Products Inc Ashland OH	419-322-1587
Sierracin/Thermal Systems Bell CA	213-269-9100
Teknational Industries Inc Rochester NY	716-232-1291

PRINTED CIRCUITS—PLATED OR SPRAYED ON INSULATED METAL CHASSIS, MOLDED BASE OR OTHER SPECIAL BASE (EXCEPT CERAMIC)

Additive Technology Corp N Chelmsford MA	617-251-4931
Augat Microtec Newbury Park CA	805-498-9643
Bureau of Engraving Inc Industrial Div Minneapolis MN	612-623-0900
Celtic Industries Inc Van Nuys CA	818-787-3615
Hestia Industries & Technologies Santa Clara CA	408-737-1212
Kollmorgen Corp PCK Technology Div Melville NY	516-454-4400
Mantex Corp Oxford MI	313-628-9711
Parlex Corp Methuen MA	617-685-4341

PRINTED CIRCUITS—SCREEN PRINTED ON LAMINATED

SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Additive Products Div Kollmorgen Corp Aquebogue NY	516-722-4100
Additive Technology Corp N Chelmsford MA	617-251-4931
Bartlett Mfg Co Inc Elk Grove Village IL	312-439-7200
Bureau of Engraving Inc Industrial Div Minneapolis MN	612-623-0900
C M Graphics Inc Farmingdale NY	516-694-1315
Celtic Industries Inc Van Nuys CA	818-787-3615
Circuit Boards Of America Inc Auburn Hills MI	313-858-5800
CPC Inc Randolph MA	617-986-8600
Electrohome Ltd Kitchener ON	519-744-7111
Elgin Electronics Erie PA	814-864-4921

GTI Corp Circuits Div Leesburg IN	219-453-3261
Hestia Industries & Technologies Santa Clara CA	408-737-1212
Hughes Electronics Products Corp Livonia MI	313-427-8310
Instrumatics Inc Cleveland OH	216-267-9020
Kalmus & Associates Broadview IL	312-343-7004
K C Industries Inc Cambridge NE	308-697-4711
Keil Engineering Products Inc St Louis MO	314-225-5166
Kollmorgen Corp PCK Technology Div Melville NY	516-454-4400
Mantex Corp Oxford MI	313-628-9711
Methode Electronics Inc Chicago IL	312-867-9600
Metropolitan Circuits Inc Santa Ana CA	714-549-2204
Pacific Industries Div D'Angelo Entrps Franklin Park IL	312-451-1505
Parlex Corp Methuen MA	617-685-4341
Philway Products Inc Ashland OH	419-322-1587
Photocircuits Glen Cove Div Kollmorgen Corp Glen Cove NY	516-674-1000
Rogers Corp Rogers CT	203-774-9605
Sanders Associates Inc Nashua NH	603-885-4321
Shokai Far East Ltd Hartsdale NY	914-681-0700
Solid State Circuits Inc Springfield MO	417-869-4678
Sparton Technology Inc Rio Rancho NM	505-892-5300
Stanford Applied Engineering Santa Clara CA	408-988-0700
Topflight Corp York PA	717-843-9901
Universal Corp Grand Junction CO	303-242-5267
Vector Electronic Co Inc Sylmar CA	818-365-9661

PRINTED CIRCUITS—STAMPED (DIE-CUT OR EMBOSSED FOIL PATTERNS)

Ackerman Gould Co Inc Bohemia NY	516-589-2000
Bureau of Engraving Inc Industrial Div Minneapolis MN	612-623-0900
GTI Corp Circuits Div Leesburg IN	219-453-3261
Hestia Industries & Technologies Santa Clara CA	408-737-1212
Mantex Corp Oxford MI	313-628-9711
Pacific Industries Div D'Angelo Entrps Franklin Park IL	312-451-1505
Rogers Corp Rogers CT	203-774-9605
Sparton Technology Inc Rio Rancho NM	505-892-5300
Topflight Corp York PA	717-843-9901

PRINTED WIRING BOARDS—MULTILAYER

See Printed Circuits—Multilayer

PRINTER CHARACTER GENERATORS

See Character Generators

PRINTERS—CIRCUIT

See Machines, PC Production—Printers,

Photographic; Silk Screen Printing Equipment

PRINTERS—COMPUTER PERIPHERAL SYSTEMS

ALPS ELECTRIC (USA) INC ROCKVILLE CENTRE NY	516-766-3636
ADV PG 111	
CANON USA INC ELECTRONIC COMPONENTS DIV LAKE SUCCESS NY	516-488-6700
INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA	818-991-9614
NEWPORT ELECTRONICS INC SANTA ANA CA	714-540-4914
SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
Admaster Corp San Gabriel CA	818-285-1121
Advanced Color Technology Inc Chelmsford MA	617-256-1222
Advanced Matrix Technology Inc Newbury Park CA	805-499-8741
Alps Electric (USA) Inc Rockville Centre NY	516-766-3636
American Computer Group Inc Boston MA	617-437-1100
Anadex Inc Camarillo CA	805-987-9660
Axiom Corp San Fernando CA	818-365-9521
Braegen Corp Milpitas CA	408-945-1900
C & L Terminals Inc Portland OR	503-231-0772
Canon USA Inc Electronic Components Div Lake Success NY	516-488-6700
Capitol Circuits Corp Printer Prods Div Boston MA	617-254-1200
Centronics Data Computer Corp Hudson NH	603-883-0111
Computer Terminal Systems Inc Hauapauge NY	516-435-2916
Computer Transceiver Systems Inc Paramus NJ	201-261-6800
Craden Peripherals Corp Pennsauken NJ	609-488-0700
Cromemco Inc Mtn View CA	415-964-7400
Data General Corp Westboro MA	617-366-8911
Datagraphix Inc San Diego CA	619-291-1960
Datapoint Corp San Antonio TX	512-699-7000
Dataproducts Corp Woodland Hills CA	818-887-8000
Data South Computer Corp Charlotte NC	704-523-8500
Data Specialties Inc Northbrook IL	312-564-1800
Datel Div General Electric Co Mansfield MA	617-339-9341
Di/An Controls Inc Boston MA	617-288-7700
Digital Equipment Corp Maynard MA	617-897-5111
Eaton Corp Riverton WY	307-856-4821
Everett/Charles Marketing Services Inc Fontana CA	714-899-2521
Facit Inc Merrimack Pk NH	603-424-8000
Florida Data Corp West Melbourne FL	305-259-4700
Fluke Mfg Co Inc John Everett WA	206-356-5400

GEN/COMP Inc Canton MA	617-828-2000
Genicom Corp Waynesboro VA	703-949-1000
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Gulton Graphic Insts Div East Greenwich RI	401-884-6800
HAL Communications Corp Urbana IL	217-367-7300
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Howell Information Systems Waltham MA	617-895-6000
Intermec Corp Lynnwood WA	206-348-2600
International Data Technology Ft Lauderdale FL	305-587-6800
International Instrumentation Inc Westlake Village CA	818-991-9600
Itoh Electronics Inc C Los Angeles CA	213-306-6700
Keltron Corp Miniprinter Div Waltham MA	617-894-8700
Kipp & Zonen Bohemia NY	516-589-2800
Lear Siegler Inc Santa Monica CA	213-452-3200
Ledu Corp Data Printer Div Trumbull CT	203-371-1000
Mannesmann Tally Corp Kent WA	206-251-5500
Memorex Corp Santa Clara CA	408-987-1000
Mesa Technology Corp Gaithersburg MD	800-638-2000
MFC Instruments Corp Salem NH	603-893-1900
Microdata Corp Irvine CA	714-540-6700
Milptote Corp Melville NY	516-420-0200
Mitsubishi Electronics America Inc Torrance CA	213-515-3900
Motorola Semiconductor Products Inc Phoenix AZ	602-244-6900
Newport Electronics Inc Santa Ana CA	714-540-4900
OkiData Mount Laurel NJ	609-235-2600
Omniprint Inc Sunnyvale CA	408-745-6400
Paradyne Corp Largo FL	813-530-2000
Perq Systems Corp Pittsburgh PA	412-355-0900
PPM Inc Cleveland OH	216-292-6000
Practical Automation Inc Shelton CT	203-929-5300
Prime Computer Inc Natick MA	617-655-8000
Printek Inc Benton Harbor MI	616-925-3200
Printronic Inc Irvine CA	714-863-1900
Quadram Corp Norcross GA	404-923-6600
Qume Corp Sub ITT San Jose CA	408-942-4000
Sanders Associates Inc Nashua NH	603-885-4321
Scan-Graphics Inc Broomfield PA	215-328-1000
SCI Systems Inc Huntsville AL	205-882-4800
Seiko Instruments USA Inc Torrance CA	213-530-8700
Seiko Inst USA Inc Graphic Dev & Sys Div Milpitas CA	408-943-9100
Small Business Computers of New England Amherst NH	603-673-0200
Star Micronics Inc Piscataway NJ	201-572-9500
Telpar Inc Addison TX	214-233-6600
Uarco Inc Barrington IL	312-381-7000
Versatec Inc Santa Clara CA	408-988-2800
Vista Scientific Corp Ivyland PA	215-322-2225
Webb Co Jervis B Farmington Hills MI	313-553-1225
Westward Technology Inc Maynard MA	617-897-1700
Wicat Systems Inc Orem UT	801-224-6400
Ziyad Inc Denville NJ	201-627-7600

PRINTERS—DATA COMMUNICATIONS

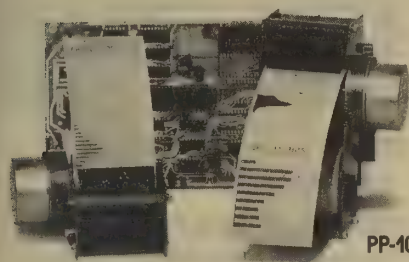
See Teleprinters; Teletypewriter Equipment;
Terminals, Data

PRINTERS—DATA LOGGING

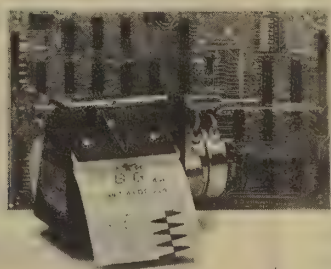
ALPS ELECTRIC (USA) INC ROCKVILLE CENTRE NY	516-766-3636
ADV PG 111	
B-G INSTRUMENTS INC ALTA LOMA CA	714-989-4800
ADV PG 367	
OMEGA ENGINEERING INC STAMFORD CT	203-359-1666
ADV PG Gatefold	
Acurex Autodata Mountain View CA	415-964-3200
Addmaster Corp San Gabriel CA	818-285-1121
Alps Electric (USA) Inc Rockville Centre NY	516-766-3636
Anadex Inc Camarillo CA	805-987-9660
Anascope Corp Wakefield MA	617-246-3300
AT & T Teletype Corp Skokie IL	312-982-2000
Axiom Corp San Fernando CA	818-365-9521
B-G Instruments Inc Alta Loma CA	714-989-4800
Caspar Integrated Systems Inc Fort Bragg CA	707-964-4100
Computer Terminal Systems Inc Hauapauge NY	516-435-2916
C-Tek Inc Wakefield MA	617-246-1720
Datel Div General Electric Co Mansfield MA	617-339-9341
DH Technology Inc Sunnyvale CA	408-738-2000
Dianachart Inc Rockaway NJ	201-625-2229
DigiTec Dayton OH	513-254-6250
Doric Scientific Div Emerson Elec Co San Diego CA	619-565-4411
Eaton Corp Riverton WY	307-856-4821
Eitel Mfg Inc Laguna Beach CA	714-494-2011
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genicom Corp Waynesboro VA	703-949-1000
Gulton Graphic Insts Div East Greenwich RI	401-884-6800
Hewlett-Packard Palo Alto CA	415-857-8000
Hycom Inc Irvine CA	714-261-6222
International Data Sciences Inc Lincoln RI	401-333-6200
Itoh Electronics Inc C Los Angeles CA	213-306-6700
Kahl Scientific Instrument Corp El Cajon CA	619-444-2151
Kaye Instruments Inc Bedford MA	617-275-0300
Keltron Corp Miniprinter Div Waltham MA	617-894-8700
Leasametric Inc Foster City CA	415-574-4400
Magnetec Corp Bloomfield CT	203-243-8900
Memodyne Corp Needham Hts MA	617-444-7000
Milptote Corp Melville NY	516-420-0200
Montedoro-Whitney Corp San Luis Obispo CA	805-543-1231
Moseley Associates Inc Goleta CA	805-968-9600
National Controls Inc Santa Rosa CA	707-527-5551
Omega Engineering Inc Stamford CT	203-359-1666
Omniprint Inc Sunnyvale CA	408-745-6400

Smart 2¼ and 4½ inch printer/plotters.

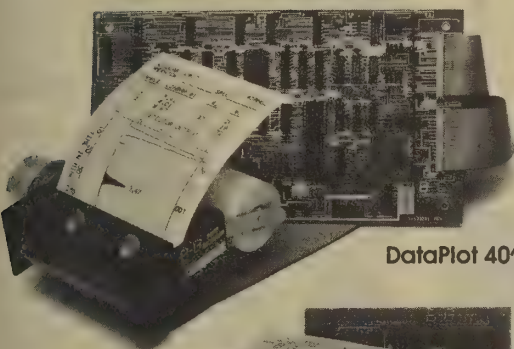
Feature on-board microprocessing and custom programming for OEM data-recording applications.



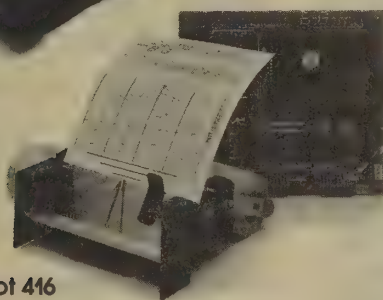
PP-101, 201, 301



DataPlot 224



DataPlot 401



DataPlot 416

Model Number	Paper Width (inches)	Columns	Graphics Resolution (dots/line)	Printing Speed (lines/second)	Vertical Printing	Input Data Format	*Price Range
PP-101	2.25	17	101	2.2	No	Parallel BCD and analog	\$320 to \$500
PP-201	2.25	17	101	2.2	No	Parallel or serial ASCII	\$320 to \$500
PP-301	2.25	17	101	2.2	No	Parallel ASCII	\$300 to \$400

DataPlot 224	2.6	18 to 37	224	3 to 8	Yes	Parallel or serial ASCII and/or analog	\$320 to \$450
DataPlot 401	4.5	34	202	1.1	Yes	Parallel or serial ASCII and/or analog	\$550 to \$970
DataPlot 416	4.5	34 to 68	416	2 to 5	Yes	Parallel or serial ASCII and/or analog	\$510 to \$800

*Exact price depends on quantity ordered and options specified.

Reliable. All B-G Instruments' printers use fixed-dot, thick-film thermal printheads to achieve fast, quiet operation, long life and reliable performance.

Powerful. B-G's standard DataPlot software makes it easy to print across the paper, print down the paper, and print while you plot data. Simple plotting commands produce curves, grids and bar graphs directly from the input data.

Versatile. For a moderate one-time fixed charge, any B-G printer can quickly be reprogrammed to meet the special requirements of a specific application. Custom character sets, printing stored forms with inserted data, clock/calendar functions, special calculations,

conditional operations—these are but a few of the many features that have been included in specially programmed B-G printers. In some cases, a custom-programmed B-G printer serves as the entire logic system for a fairly complex instrument.

For more information. Detailed brochures, a price list and application notes will be mailed to you as soon as we receive your inquiry. If you have an upcoming OEM application, we would be pleased to discuss it with you in detail and arrange a demonstration.



Most B-G Instruments' printer/plotters are also available with cabinets and power supplies.



B-G Instruments P.O. Box 67, Alta Loma, CA 91701
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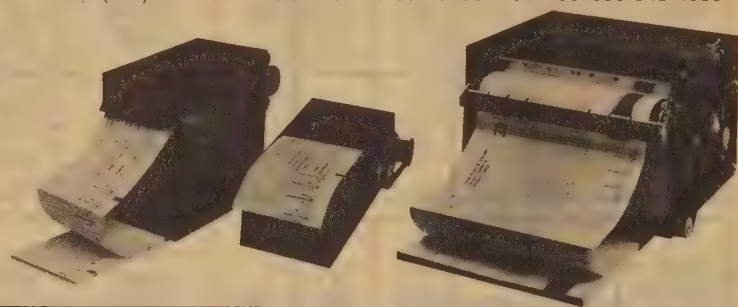
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Seiko Instruments USA Inc Torrance CA.....	213-530-8777
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A C D Corp Dayton OH.....	513-222-2600
Alps Electric (USA) Inc Rockville Centre NY.....	516-766-3636
AT & T Teletype Corp Skokie IL.....	312-982-2000
Computer Terminal Systems Inc Hauppauge NY.....	516-435-2916
Data General Corp Westboro MA.....	617-366-8911
Di/An Controls Inc Boston MA.....	617-288-7700
Digital Equipment Corp Maynard MA.....	617-897-5111
Genicom Corp Waynesboro VA.....	703-949-1000
Hewlett-Packard Palo Alto CA.....	415-857-8000
Ledu Corp Data Printer Div Trumbull CT.....	203-371-5500
Milpore Corp Melville NY.....	516-420-0200
National Controls Inc Santa Rosa CA.....	707-527-5555
Practical Automation Inc Shelton CT.....	203-929-5381
Qume Corp Sub ITT San Jose CA.....	408-942-4000
Rusco Electronic Systems Glendale CA.....	818-240-2540
Sakata USA Corp Elk Grove Village IL.....	312-593-3211
Teletype Corp Skokie IL.....	312-982-2000
Telpar Inc Addison TX.....	214-233-6631

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ADV PG 111	
B-G INSTRUMENTS INC ALTA LOMA CA.....	714-989-4802
ADV PG 367	
FUJITSU COMPONENTS OF AMERICA INC SANTA CLARA CA.....	408-727-1700
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700

Alps Electric (USA) Inc Rockville Centre NY.....	516-766-3636
B-G Instruments Inc Alta Loma CA.....	714-989-4802
Caspar Integrated Systems Inc Fort Bragg CA.....	707-964-4109
Craden Peripherals Corp Pennsauken NJ.....	609-488-0700
Datel Div General Electric Co Mansfield MA.....	617-339-9341
Fujitsu Component of America Inc Lake Bluff IL.....	312-295-2610
Fujitsu Components of America Inc Santa Clara CA.....	408-727-1700
Gulton Graphic Insts Div East Greenwich RI.....	401-884-6800
Hewlett-Packard Palo Alto CA.....	415-857-8000
Hycorn Inc Irvine CA.....	714-261-6224
Keltron Corp Miniprinter Div Waltham MA.....	617-894-8700
Memodyne Corp Needham Hts MA.....	617-444-7000
Omniprint Inc Sunnyvale CA.....	408-745-6400
Panasonic Co Electronic Components Div Secaucus NJ.....	201-348-5200
PPM Inc Cleveland OH.....	216-292-6006
Practical Automation Inc Shelton CT.....	203-929-5381
SCI Systems Inc Huntsville AL.....	205-882-4800
Seiko Instruments & Electronics Ltd Tokyo Japan.....	03-682-1111
Seiko Instruments USA Inc Torrance CA.....	213-530-8777
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Star Micronics Inc Piscataway NJ.....	201-572-9512
Telpar Inc Addison TX.....	214-233-6631
Texas Instruments Optoelectronics Dallas TX.....	214-995-6611

PRINTERS—TICKET

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ADV PG 111	
Astro-Med Inc West Warwick RI.....	401-828-4000
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Computer Terminal Systems Inc Hauppauge NY.....	516-435-2916
Craden Peripherals Corp Pennsauken NJ.....	609-488-0700
Data Specialties Inc Northbrook IL.....	312-564-1800
DH Technology Inc Sunnyvale CA.....	408-738-2082
Di/An Controls Inc Boston MA.....	617-288-7700
Durant Products-Eaton Corp Watertown WI.....	414-261-4070
Eaton Corp Riverton WY.....	307-856-4821
Gulton Graphic Insts Div East Greenwich RI.....	401-884-6800
Intermec Corp Lynnwood WA.....	206-348-2600
Magnetec Corp Bloomfield CT.....	203-243-8941
National Controls Inc Santa Rosa CA.....	707-527-5555
PPM Inc Cleveland OH.....	216-292-6006
Practical Automation Inc Shelton CT.....	203-929-5381
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SCI Systems Inc Huntsville AL.....	205-882-4800
Seiko Instruments USA Inc Torrance CA.....	213-530-8777
Teletype Corp Skokie IL.....	312-982-2000
Telpar Inc Addison TX.....	214-233-6631
Trumeter Co Inc New York NY.....	212-564-0666

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Autologic Inc Newbury Park CA.....	805-498-9800
Axiom Corp San Fernando CA.....	818-365-9500
Datapoint Corp San Antonio TX.....	512-699-7000
Daytronic Corp Miamisburg OH.....	513-866-3300
Di/An Controls Inc Boston MA.....	617-288-7700
Electronic Programming Corp Santa Clara CA.....	408-746-0300
Gulton Graphic Insts Div East Greenwich RI.....	401-884-6800
Hewlett-Packard Palo Alto CA.....	415-857-8000
Honeywell Information Systems Waltham MA.....	617-895-6000
Image Graphics Inc Fairfield CT.....	203-259-9400
Imagen Corp Santa Clara CA.....	408-986-9400
Markem Corp Keene NH.....	603-352-1100

PRISMS

See Optical Lenses & Prisms

PROBABILITY ANALYZERS

See Analyzers—Correlation

PROBES—ACOUSTIC

American-Swiss Products Co Inc Pittsford NY.....	716-248-2200
AMETEK Straza Div El Cajon CA.....	619-442-3400
Bruehl & Kjaer Instruments Inc Marlboro MA.....	617-481-7000
Gen Rad Inc Waltham MA.....	617-369-4400
Hyde Park Electronics Inc Dayton OH.....	513-435-2120
Telex Communications Inc Minneapolis MN.....	612-884-4000

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SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
TEST PROBES INC LA JOLLA CA.....	619-459-4100
ADV PG 369	
American-Swiss Products Co Inc Pittsford NY.....	716-248-2200
Anasco Corp Wakefield MA.....	617-246-3300
Augat/Pylon Co Inc Attleboro Falls MA.....	617-699-7600
Ballantine Laboratories Inc Boonton NJ.....	201-335-0900
B & K Precision Products Dynascan Corp Chicago IL.....	312-889-9000
Fluke Mfg Co Inc John Everett WA.....	206-356-5400
Genstar Rental Electronics Inc Woodland Hills CA.....	818-887-4000
Heath Co Benton Harbor MI.....	616-982-3200
Hickok Electrical Instrument Co Cleveland OH.....	216-541-8000
Kulka Smith Inc Manassas NJ.....	201-223-9400
Leader Instruments Corp Hauppauge NY.....	516-231-6900
National Tel-Tronics Div Technodyne Inc Meadville PA.....	814-724-6400
Pacer Industries Inc Chippewa Falls WI.....	715-729-1100
Peschel Instruments Inc Cape Coral FL.....	813-574-3100
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Slaughter Co Ardmore OK.....	405-223-4700
Tektronix Inc Beaverton OR.....	800-547-5700
Test Probes Inc La Jolla CA.....	619-459-4100
Tetxet Instruments Inc Fairview Village PA.....	215-538-6000
Triplett Corp/A Penril Div Bluffton SC.....	419-358-5000
Viz Test Equip Div Viz Mfg Co Philadelphia PA.....	215-844-2400

PROBES—MICROWAVE

GENERAL MICROWAVE CORP AMITYVILLE NY.....	516-226-8900
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Augat/Pylon Co Inc Attleboro Falls MA.....	617-699-7600
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CorProbe Corp Tempe AZ.....	602-967-7800
Diamond Antenna & Microwave Corp Winchester MA.....	617-729-5500
General Microwave Corp Amityville NY.....	516-226-8900
Harris Corp Govt Support Sys Div Syosset NY.....	516-364-0400
Maury Microwave Corp Cucamonga CA.....	714-987-4700
The Narda Microwave Corp Hauppauge NY.....	516-231-1700
Probe-Rite Inc Santa Clara CA.....	408-727-0100
Stetron International Inc Buffalo NY.....	716-854-3400
Struthers Electronics Corp Farmingdale NY.....	516-420-9000
Tektronix Inc Beaverton OR.....	800-547-5700
Tru-Connector Corp Peabody MA.....	617-532-0700
Victor Microwave Inc Wakefield MA.....	617-245-4400
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ADV PG 369	
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Concord Electronics Corp New York NY	212-777-6571
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Master Rental Electronics Inc	
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lett-Packard Palo Alto CA	415-857-8000
chi Denshi America Ltd Woodbury NY	516-921-7200
Pomona Electronics Pomona CA	714-623-3463
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let Instrument Corp Oscilloscope Div	
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th American Soar Corp Cherry Hill NJ	609-488-1060
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Lahwah NJ	201-529-3800
near Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
be Master Inc San Diego CA	619-560-9676
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pson Electric Co Elgin IL	312-697-2260
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rry Instruments Inc A W Hauppauge NY	516-231-7050
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Data Corp San Diego CA	619-279-6572

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Probe Corp Tempe AZ	602-967-7885
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ke Mfg Co Inc John Everett WA	206-356-5400
th Co Benton Harbor MI	616-982-3200
Pomona Electronics Pomona CA	714-623-3463
ka Smith Inc Manasquan NJ	201-223-9400
tal-Dana Instruments Inc Irvine CA	714-859-8999
core Inc Sioux Falls SD	605-339-0100
t Probes Inc La Jolla CA	619-459-4197
lett Corp/A Penril Div Bluffton OH	419-358-5015
Test Equip Div Viz Mfg Co	
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Probe Corp Tempe AZ	602-967-7885
on Semiconductor Equip Oper	
an Jose CA	408-943-0800
ctrols c/o Xynetics Unit General Signal	
anta Clara CA	408-727-4482
B Industries Inc Picoprobe Div Gillette NJ	201-464-1749
Probotics Inc Longwood FL	305-339-8298
ghton Electronics Inc Lehighton PA	215-377-5990
ser Jewel Co Perth Amboy NJ	201-442-3434
Electronics Inc Woodside NY	718-672-6500
be-Rite Inc Santa Clara CA	408-727-0100
adyne TAC Woburn MA	617-935-5400
co/Industrial Equip Div Plainview NY	516-349-8300

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STAMFORD CT	203-359-1660
ADV PG Gatefold	
D COMPONENTS INC	
MANCHESTER NH	603-669-0054
NSOR SCIENTIFIC INC FAIRFIELD NJ	201-227-7790
PERIOR ELECTRIC CO THE	
BRISTOL CT	203-582-9561
LEDYNE GEOTECH GARLAND TX	214-271-2561
ERMOMETRICS INC EDISON NJ	201-287-2870
or Instrument Co Skokie IL	312-647-7866
ha-M Corp Eulass TX	817-267-7022
merican-Swiss Products Co Inc Pittsford NY	716-248-2277
lett-Rodan Div Anaheim CA	714-630-0081
asco Corp Wakefield MA	617-246-3300
I Industries Inc Addison IL	312-953-9100
ntec Industries Inc Manchester NH	603-669-0940
ins Technical Inc Gainesville FL	904-378-5555
omatic Test Systems Malden MA	617-322-1107
K Precision Products Dynascan Corp	
Chicago IL	312-889-9087
ling Instrument Co Inc Chatham NJ	201-635-9481
ns Engineering Inc Minnetonka MN	612-935-4400
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Dowty Electronics Co Thermocontrol Div	
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Electromatic Controls Corp	
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FTS Systems Inc Stone Ridge NY	914-687-7664
Gordon Co Claud S Richmond IL	815-678-2211
Harrel Inc East Norwalk CT	203-866-2573
Heraeus-Volkert Inc Queens Village NY	718-464-8400
Hewlett-Packard Palo Alto CA	415-857-8000
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Honeywell Process Control Div	
Fi Washington PA	215-641-3000
Hy-Cal Engineering El Monte CA	818-444-4000
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Jersey Technical Electronics Inc Middlesex NJ	201-469-8160
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Kurz Instruments Inc Carmel Valley CA	408-659-3421
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North Wales PA	215-643-2000
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Micro Technical Industries Lake Forest CA	714-555-4326
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Nanmac Corp Framingham Centre MA	617-872-4811
North American Soar Corp Cherry Hill NJ	609-488-1060
Omega Engineering Inc Stamford CT	203-359-1660
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Pyco Inc Pennell PA	215-757-3704
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Syscon International Inc South Bend IN	219-232-3900
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Thermo-Couple Products Co Inc Winfield IL	312-653-1400
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Thermometrics Inc Edison NJ	201-287-2870
Triplett Corp/A Penril Div Bluffton OH	419-358-5015
United Electric Controls Co Watertown MA	617-926-1000
United Sensor Div Watertown MA	617-926-1009
Universal Corp Grand Junction CO	303-242-5267
Wahl Instruments Inc Culver City CA	213-641-6931
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Weed Instrument Co Inc Round Rock TX	512-255-7043
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Winland Electronics Inc Mankato MN	507-625-7231
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Yellow Springs OH	513-767-7241

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SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
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Allied Systems Corp Greensboro NC	919-299-2294
American-Swiss Products Co Inc Pittsford NY	716-248-2277
Anascope Corp Wakefield MA	617-246-3300
A P Products Incorporated Mentor OH	216-354-2101
Augat/Pylon Co Inc Attleboro Falls MA	617-699-7646
Concord Electronics Corp New York NY	212-777-6571
Factron/Schlumberger Latham NY	518-783-3600
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Global Specialties Corp New Haven CT	203-624-3103

Hickok Electrical Instrument Co Cleveland OH.....	216-541-8060
I C Probotics Inc Longwood FL	305-339-8298
Interconnect Devices Inc Kansas City KS.....	913-342-5544
ITT Pomona Electronics Pomona CA.....	714-623-3463
Keystone Electronics Corp New York NY.....	212-475-4600
Kulka Smith Inc Manassquan NJ.....	201-223-9400
Mac Panel Co High Point NC.....	919-884-8111
Mueller Electric Co Cleveland OH.....	216-771-5225
National Tel-Tronics Div Technodyne Inc	
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North American Soar Corp Cherry Hill NJ.....	609-488-1060
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Omega Engineering Inc Stamford CT.....	203-359-1660
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Test Probes Inc La Jolla CA.....	619-459-4197
Triplett Corp/A Penril Div Bluffton OH.....	419-358-5015
Valhalla Scientific Inc San Diego CA.....	619-457-5576
Virginia Panel Corp Waynesboro VA.....	703-949-8376
Viz Test Equip Div Viz Mfg Co	
Philadelphia PA.....	215-844-2626

PROCESS CONTROL COMPUTERS

See Computers, Analog—Industrial Control;
Computers, Digital—Process Control

PRODUCTION EQUIPMENT

See Categories Referenced as Follows:

Adhesive Application Equipment

Assembly Fixtures

Assembly Hoods

Belloves

Benchs & Stools

Bins & Trays

Boats & Crucibles

Cleaning Filters

Cleaning Materials

Clean Rooms

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Motors

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Photomask Cutting Tables

Photomask Pattern Generators

Racks—Semiconductor Burn-In

Racks—Tube Aging

Radiographic Equipment—Gamma Ray

Readers

Shaft Listings

Silk-Screen Printing Equipment

Silk Screens

Stamps—Marking

Strippers, Wire

Tanks—Polyethylene

Testers

Test Systems, Production Test

Thermostats

Timers

Tools

PRODUCTION MATERIALS

See Materials Reference List

PRODUCTION SERVICES—CIRCUIT ASSEMBLY

ACC ELECTRONICS AN ECHLIN CO	
INDEPENDENCE KS	316-331-10
ADV PG 370	
ALMOR CO INC WEYMOUTH MA.....	617-331-84
CAPCO/ELECTROHM	
GRAND JUNCTION CO	303-243-87
MEA DIV UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-772-75
ADV PG 371	
PICONICS INC TYNGSBORO MA.....	617-649-75
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-07
TIME ZERO CORP CLIFTON NJ.....	201-340-04
ADV PG 370	
UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-775-11
ADV PG 371	
Abilities Inc Albertson NY.....	516-P17-54
Abrams Instrument Corp Lansing MI	517-332-64
ACC Electronics an Echlin Co	
Independence KS	316-331-10
Accurate Electronics Corp Elyria OH	216-385-12
A C D Corp Dayton OH	513-222-26
Action Labs Inc Woodville WI	715-698-25
Adtech Inc Honolulu HI.....	808-941-07
Almor Co Inc Weymouth MA	617-331-84
Altek Co Torrington CT.....	203-482-76
American Science & Engineering Inc	
Cambridge MA	617-868-16
Applied Dynamics Intl Ann Arbor MI.....	313-973-13
Apso Inc Mentor OH	216-352-89
Argent Industries Inc Englewood OH	513-836-86
Astrio Corp Fremont CA.....	415-659-92
A-Systems Inc Charlottesville VA	804-295-72
Automatic Coil Corp Hialeah FL	305-883-53
Bead Electronics Div Bead Chain Mfg Co	
Bridgeport CT	203-334-41
B & F Instruments Div FX Sys Corp	
Kingston NY.....	914-338-06
BH Electronics Burnsville MN.....	612-894-96
Capco/Electrohm Grand Junction CO	303-243-87
CCI Omaha NE.....	402-592-53
CenCorp Sub Dover Technology Inc	
Boulder CO.....	303-665-42
Centroid Inc Syosser NY	516-822-47
Control Technology Corp Hopkinton MA.....	617-435-95
Control Technology Div AirBorn Elect Corp	
Garland TX.....	214-272-56
Controltek Inc Portland OR.....	503-641-08
Corlund Electronics Corp Newbury Park CA.....	805-499-66
CPC Inc Randolph MA.....	617-986-86
dataCon Inc The Wire Wrappers	
Burlington MA.....	617-273-56
Datatron Labs Inc Sussex NJ.....	914-856-43
Deca Mfg Co Inc Lexington OH	419-884-00
Detronics Inc Hackensack NJ.....	201-343-94
Designtronics Inc Sub Automatic Coil	
New Hyde Park NY.....	516-328-33
Discon Industries Inc Pompano Beach FL.....	305-782-74
Divebiss Corp Fredericktown OH	614-694-90
Doran Mfg Co Cincinnati OH	513-681-54
Dowdy Electronics Co Brandon VT.....	802-247-68

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Electronic Associates Inc	
West Long Branch NJ	201-229-1100
Electronic Component Assembly Inc	
La Mesa CA	619-464-0910
Electroprep Inc Cataumet MA	617-563-5559
ElectroShield Inc Yellow Springs OH	513-767-1054
Elgin Electronics Erie PA	814-864-4921
ELMA Div Sandberg Ind Inc Irvine CA	714-261-9473
Endicott Coil Co Inc Binghamton NY	607-797-1263
Enterprise Systems Corp Dover NH	603-742-7363
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Estes Engineering Co Port Angeles WA	206-457-0904
E W C Inc Kenilworth NJ	201-245-3200
Flextronics Inc Newark CA	415-794-3539
Forbes & Wagner Inc Silver Creek NY	716-934-2691
G M I Electronics Inc Plainfield NJ	201-755-5980
Grim Corp Medford NJ	609-267-7950
Grumman Electronics Systems Div	
Great River NY	516-435-6000
GSI Corp Timonium MD	301-252-1768
GTI Corp Circuits Div Leesburg IN	219-453-3261
Hestia Industries & Technologies	
Santa Clara CA	408-737-1212
Hughes Electronics Products Corp Livonia MI	313-427-8310
IEC Electronics Corp Newark NY	315-331-7742
Industrial Micro-Systems Inc Southington CT	203-628-4844
Innovative Circuits Inc Kansas City KS	913-321-0688
Intelligent Controls Inc Saco ME	207-283-0156
Jersey Technical Electronics Inc Middlesex NJ	201-469-8160
Jetronics Co Div J L Hall Co Inc	
Santa Rosa CA	707-544-2436
K C Industries Inc Cambridge NE	308-697-4711
Kimchuk Inc Brookfield CT	203-775-0441
Kurz Instruments Inc Carmel Valley CA	408-659-3421
LaPointe Industries Inc Rockville CT	203-872-8581
Leecraft Mfg Co Inc Long Island City NY	718-392-8800
Leighton Electronics Inc Leighton PA	215-377-5990
Light Fabrications Inc Rochester NY	716-235-6310
Logus Mfg Corp Deer Park NY	516-242-5970
Mag-Con Inc St Paul MN	612-633-8820
Magnetic Laboratories Apalachin NY	607-754-5800
Magnum Ops Custom Electronic Engrg	
Iselin NJ	201-283-4925
Manu-Tronics Inc Kenosha WI	414-694-7700
Mauy Microwave Corp Cucamonga CA	714-987-4715
MEA Div Universal Instruments Corp	
Binghamton NY	607-772-7563
Medaglia Engineering Co Baltimore MD	301-685-0960
Metric Systems Corp Fort Walton Beach FL	904-244-9600
Micro Metrics Inc Paterson NJ	201-345-9700
Micropac Ind Inc Garland TX	214-272-3571
Miller Communications Systems Ltd	
Kanata ON	613-592-3020
Mutron Corp Brookton MA	617-364-2442
Northern Automatic Assembly Inc	
Shoreview MN	612-481-0022

NPC Electronics New Brighton MN	612-633-4591
Oklahoma Aerotronics Inc Hartshorne OK	918-297-2566
Paraplegics Mfg Co Inc Bensenville IL	312-625-7740
Parko Electronics Co Inc Irvine CA	714-660-8014
PCI Inc Santa Clara CA	408-980-0591
Piconics Inc Tyngsboro MA	617-649-7501
Radio Television Products Corp Douglas AZ	602-364-4438
Raven Industries Inc Sioux Falls SD	605-336-2750
Rectico Inc Fairfield NJ	201-575-0009
Relch Associates Inc Plano TX	214-424-7904
Ross Co Milton Southampton PA	215-355-0200
SCI Systems Inc Huntsville AL	205-882-4800
Scope Inc Reston VA	703-471-5600
SFE Technologies San Fernando CA	818-365-9411
Shokal Far East Ltd Hartsdale NY	914-681-0700
Sittler Corp Chicago IL	312-733-4616
S K G Associates Inc Norwell MA	617-878-7250
SMD Technology Center Milwaukee WI	414-228-7632
Sparton of Canada Ltd London ON	519-455-6320
Sparton Technology Inc Rio Rancho NM	505-892-5300
Storm Products Co Ingleswood CA	213-776-8141
Strandberg Engineering Labs Inc	
Greensboro NC	919-274-3775
SubCon Mfg Corp Algonquin IL	312-658-6525
Swiss Controls Inc Michigan City IN	219-872-5544
Systems Research Labs Inc Dayton OH	513-426-6000
Techrand Corp of America Muskegon MI	616-744-1663
Teledyne Microelectronics Los Angeles CA	213-870-9831
T-F Electronics Inc Austin TX	512-836-7323
Time Zero Corp Clifton NJ	201-340-0400
Transducer Systems Inc Kulpville PA	215-256-4611
Transistor Specialty Inc Danvers MA	617-774-8722
Universal Instruments Corp Binghamton NY	607-775-1102
Valtronic Inc Lombard IL	312-953-0077
Vega Precision Labs Vienna VA	703-938-6300
White Technology Inc Phoenix AZ	602-437-1520
Xycom Inc Saline MI	313-429-4971
XYZ Electronics Inc Indianapolis IN	317-335-2128

PRODUCTION SERVICES—CIRCUIT ASSEMBLY, WELDED MICROMINIATURE

ACC ELECTRONICS AN ECHLIN CO INDEPENDENCE KS	316-331-1000
ADV PG 370	
PICONICS INC TYNGSBORO MA	617-649-7501
TIME ZERO CORP CLIFTON NJ	201-340-0400
ADV PG 370	
ACC Electronics an Echlin Co	
Independence KS	316-331-1000
BH Electronics Burnsville MN	612-894-9590
Curtis Industries Inc Milwaukee WI	414-354-1500
Deca Mfg Co Inc Lexington OH	419-884-0071

Deringer Mfg Co Mundelein IL	312-566-41
Designatronics Inc Sub Automatic Coil	
New Hyde Park NY	516-328-33
Electronic Component Assembly Inc	
La Mesa CA	619-464-09
IEC Electronics Corp Newark NY	315-331-77
Light Fabrications Inc Rochester NY	716-235-63
Medaglia Engineering Co Baltimore MD	301-685-09
Micro Metrics Inc Paterson NJ	201-345-97
Mini-Systems Inc No Attleboro MA	617-695-02
Moore Systems-Stitchweld Corp	
Chatsworth CA	818-882-77
Mutron Corp Brookton MA	617-364-24
Piconics Inc Tyngsboro MA	617-649-75
Raven Industries Inc Sioux Falls SD	605-336-27
Ross Co Milton Southampton PA	215-355-02
SCI Systems Inc Huntsville AL	205-882-48
Teledyne Microelectronics Los Angeles CA	213-870-98
Time Zero Corp Clifton NJ	201-340-04
Valtronic Inc Lombard IL	312-953-00
Vega Precision Labs Vienna VA	703-938-63

PRODUCTION SERVICES—CUSTOM PARTS

See Components & Parts Reference List

PRODUCTION SERVICES—DIP BRAZING OR FURNACE BRAZING

ALUMINUM DESIGN CORP BROOKFIELD IL	312-387-3100
ADV PG 372	
PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA	617-226-12
Alberox Corp New Bedford MA	617-995-17
Aluminum Design Corp Brookfield IL	312-387-31
Astrolab Inc Warren NJ	201-560-38
Balo Precision Parts Inc Franklin Lakes NJ	201-337-20
Deringer Mfg Co Mundelein IL	312-566-41
Electronic Tool Co Inc Pleasantville NY	914-769-80
Frenchtown Ceramics Co Frenchtown NJ	201-996-21
Glasse Products Inc Lakewood NJ	201-370-91
Impex Div National Lock Corp	
Crawfordsville IN	317-362-08
Industrial Microwave Corp Scotch Plains NJ	201-322-44
Lockhart Industries Inc Paramount CA	213-774-29
McVen Electronics Lab Red Bank NJ	201-741-17
Microwave Development Labs Inc Natick MA	617-655-00
Microwave Engineering Corp	
North Andover MA	617-685-27
National Beryllia Div/General Ceramics Inc	
Haskell NJ	201-839-16
Precision Fabricators Inc Sub Supradur Inc	
Garden City Park NY	516-741-11
Precision Metallurgical Corp A Leach & Garner Co	
Attleboro MA	617-226-12
Pyronics Inc Industrial Controls Div	
Cleveland OH	216-662-88
Solid State Equipment Corp	
Fort Washington PA	215-643-79
Warren Components Corp Warren PA	814-723-62

PRODUCTION SERVICES—ENCAPSULATION

ACC ELECTRONICS AN ECHLIN CO INDEPENDENCE KS	316-331-1000
ADV PG 370	
CAPCO/LECTROHM	
GRAND JUNCTION CO	303-243-87
PICONICS INC TYNGSBORO MA	617-649-7501
RESEARCH INSTRUMENT CO INC SOUTH WINDSOR CT	203-528-96
ABM Semiconductor Inc San Jose CA	408-297-74
ACC Electronics an Echlin Co	
Independence KS	316-331-10
Atek Co Torrington CT	203-482-76
Amkor Electronics Inc Dallas TX	214-830-86
Apsco Inc Mentor OH	216-352-89
Argent Industries Inc Englewood OH	513-836-86
Automatic Coil Corp Hialeah FL	305-883-53
Bacon Industries Inc Watertown MA	617-926-25
Cable Systems Inc Everett MA	617-389-70
Capco/Lectrohm Grand Junction CO	303-243-87
Component Mfg Svc Inc	
West Bridgewater MA	617-580-01
Deca Mfg Co Inc Lexington OH	419-884-00
Designatronics Inc Sub Automatic Coil	
New Hyde Park NY	516-328-33
Discon Industries Inc Pompano Beach FL	305-782-74
Eastern Delta Corp Nutley NJ	201-667-87
Electronic Component Assembly Inc	
La Mesa CA	619-464-09
Endicott Coil Co Inc Binghamton NY	607-797-12
Estes Engineering Co Port Angeles WA	206-457-09
Green Rectifier Corp Nutley NJ	201-667-87
Hestia Industries & Technologies	
Santa Clara CA	408-737-12
IEC Electronics Corp Newark NY	315-331-77
Kras Corp Fairless Hills PA	215-736-09
K-Two Industries Palo Alto CA	415-941-34
Magnetic Laboratories Apalachin NY	607-754-58
Microavionics Costa Mesa CA	714-957-69
Mutron Corp Brookton MA	617-364-24
Nova Tran Corp Clear Lake WI	715-263-23
Oklahoma Aerotronics Inc Hartshorne OK	918-297-25
Paraplegics Mfg Co Inc Bensenville IL	312-625-77
Piconics Inc Tyngsboro MA	617-649-75
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-36
Polymer Corp Reading PA	215-320-66

Scientific Litton Systems Inc	
acksburg VA.....	703-552-3011
earch Instrument Co Inc	
outh Windsor CT.....	203-528-9625
Co Milton Southampton PA.....	215-355-0200
Harbor Industries Inc Sag Harbor NY.....	516-725-0400
G Associates Inc Norwell MA.....	617-878-7250
tron Technology Inc Rio Rancho NM.....	505-892-5300
m Products Co Ingleside TX.....	213-776-8141
ducer Systems Inc Kulpville PA.....	215-256-4611

PRODUCTION SERVICES—ENGRAVING PROFILING

OR CO INC WEYMOUTH MA.....	617-331-8400
ER HINGHAM MA.....	617-749-6700
DV PGS Green Pages/Footstrips	
or Co Inc Weymouth MA.....	617-331-8400
houser-Elcom Inc Watertown MA.....	617-924-1505
Co Inc Trussville AL.....	205-655-2135
Co Mig Co Montrose CO.....	303-249-BEST
atran Labs Inc Sussex NJ.....	914-856-4313
ya Co Inc Schoharie NY.....	518-295-8101
lab Inc Phoenix AZ.....	602-271-0921
er Hingham MA.....	617-749-6700
on Name Plate Corp New Haven CT.....	203-488-0085

PRODUCTION SERVICES—ETCHED METAL PARTS

OR CO INC WEYMOUTH MA.....	617-331-8400
OP PARTS INC ST PAUL MN.....	612-488-6791
DV PG 258	
or Co Inc Weymouth MA.....	617-331-8400
hinson Technology Inc Hutchinson MN.....	612-587-3797
ument Specialties Co Inc	
elaware Water Gap PA.....	717-424-8510
opac Ind Inc Garland TX.....	214-272-3571
Co Parts Inc St Paul MN.....	612-488-6791
lab Inc Phoenix AZ.....	602-271-0921
tofabrication Technology Inc Derry NH.....	603-432-1200
ce Magnetics Los Angeles CA.....	213-264-7855
nnar Inc Arcadia CA.....	818-447-1187

PRODUCTION SERVICES—FUNGIPROOFING

ent Industries Inc Englewood OH.....	513-836-8633
cone Corp Northfield IL.....	312-441-5800
Electronics Corp Newark NY.....	315-331-7742
lagia Engineering Co Baltimore MD.....	301-685-0960
ron Corp Brockton MA.....	617-364-2442

PRODUCTION SERVICES—HEAT-TREATING

M Semiconductor Inc San Jose CA.....	408-297-7477
mericas Laminates Inc Hudson NH.....	603-880-4807
tronics Inc Hackensack NJ.....	201-343-9405
ument Specialties Co Inc	
elaware Water Gap PA.....	717-424-8510
en Electronics Lab Red Bank NJ.....	201-741-1716
Shield Co Malden MA.....	617-321-4410
Electronics Div SL Ind Inc Westville NJ.....	609-456-7300
orton Technology Inc Rio Rancho NM.....	505-892-5300

PRODUCTION SERVICES—HERMETIC SEALING

ONICS INC TYNGSBORO MA.....	617-649-7501
SEARCH INSTRUMENT CO INC	
OUTH WINDSOR CT.....	203-528-9625
M Semiconductor Inc San Jose CA.....	408-297-7477
rox Corp New Bedford MA.....	617-995-1725
or Electronics Inc Dallas TX.....	214-630-8686
ociate General Labs Inc Brookfield IL.....	312-485-1135
Precision Parts Inc Franklin Lakes NJ.....	201-337-2011
ld Cato Assoc Inc Brielle NJ.....	201-528-7439
uctor Indus of Amer Div Microdot	
incinnati OH.....	513-733-3680
ac Div Varian Associates San Carlos CA.....	415-592-1221
hctown Ceramics Co Frenchtown NJ.....	201-996-2121
seal Products Inc Lakewood NJ.....	201-370-9100
metic Seal Corp Rosemead CA.....	213-283-0411
shear Technology Corp Torrance CA.....	213-326-8110
en Electronics Lab Red Bank NJ.....	201-741-1716
rum Precision Products	
ancho Culamonga CA.....	714-989-1728
onal Beryllia Div/General Ceramics Inc	
askell NJ.....	201-839-1600
onics Inc Tyngsboro MA.....	617-649-7501
earch Instrument Co Inc	
outh Windsor CT.....	203-528-9625
ltron Inc Cincinnati OH.....	513-733-8400
G Associates Inc Norwell MA.....	617-878-7250
State Equipment Corp	
rt Washington PA.....	215-643-7900
obond Ultrasonics Inc West Chester PA.....	215-696-4710
ren Components Corp Warren PA.....	814-723-6200
recht Electronics Inc St Paul MN.....	612-222-2791

PRODUCTION SERVICES—LAPPING & HONING

Accumet Engineering Corp Hudson MA.....	617-568-8311
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Frenchtown Ceramics Co Frenchtown NJ.....	201-996-2121
General Diode Corp Framingham MA.....	617-879-0880
Hoffman Co P R Carlisle PA.....	717-243-2011
Materials Research Corp Orangeburg NY.....	914-359-4200
McVen Electronics Lab Red Bank NJ.....	201-741-1716
Meller Co Adolf Providence RI.....	401-331-3717
Mindrum Precision Products	
Rancho Culamonga CA.....	714-989-1728
Optical Coating Lab Inc Santa Rosa CA.....	707-545-6440
PHI Conrac Machine Tool Westminster CA.....	714-894-4711
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Valley Design Corp Littleton MA.....	617-486-8933

PRODUCTION SERVICES—METALIZING, PRINT & FIRE

ACC ELECTRONICS AN ECHLIN CO	
INDEPENDENCE KS.....	316-331-1000
ADV PG 370	
PICONICS INC TYNGSBORO MA.....	617-649-7501
ACC Electronics an Echlin Co	
Independence KS.....	316-331-1000
Alberox Corp New Bedford MA.....	617-995-1725
Diamond Products Shreve OH.....	216-567-2145
Frenchtown Ceramics Co Frenchtown NJ.....	201-996-2121
Glasseal Products Inc Lakewood NJ.....	201-370-9100
Hermetic Seal Corp Rosemead CA.....	213-283-0411
Hi-Shear Technology Corp Torrance CA.....	213-326-8110
Iden Industries Inc Millington NJ.....	201-647-2734
International Sensor Systems Inc Aurora NE.....	402-694-6111
McVen Electronics Lab Red Bank NJ.....	201-741-1716
Micropac Ind Inc Garland TX.....	214-272-3571
Mini-Systems Inc No Attleboro MA.....	617-695-0203
National Beryllia Div/General Ceramics Inc	
Haskell NJ.....	201-839-1600
Piconics Inc Tyngsboro MA.....	617-649-7501
Technology Glass Div Union City CA.....	415-487-5860
Tekform Products Div Gen Ceramics Inc	
Haskell NJ.....	201-839-1600

PRODUCTION SERVICES—METALIZING, VACUUM

Alberox Corp New Bedford MA.....	617-995-1725
Arnold Engineering Co Marengo IL.....	815-568-2000
Materials Research Corp Orangeburg NY.....	914-359-4200
Melles Griot Irvine CA.....	714-556-8200
Micropac Ind Inc Garland TX.....	214-272-3571
Optical Coating Lab Inc Santa Rosa CA.....	707-545-6440
Schweitzer Div Kimberly-Clark Corp Lee MA.....	413-243-1000
Silver Glo Picture Tube Ltd Edmonton AB.....	403-474-5056
Southwall Technologies Palo Alto CA.....	415-962-9111
Vac-Tec Systems Inc Boulder CO.....	303-449-5180
Varian Specialty Metals Div Palo Alto CA.....	415-493-4000

PRODUCTION SERVICES—METALS RECOVERY

Aqua Media Intl Sub Osmonics Inc	
Fremont CA.....	415-651-5000
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Eagle-Picher Industries Inc Quapaw OK.....	918-673-1650
Eastern Smelting & Refining Corp Lynn MA.....	617-599-9000
Garfield Industries Philadelphia PA.....	215-743-4653
Handy & Harman New York NY.....	212-752-3400
Hi-Tech Gold Plating Worcester MA.....	617-799-4168
Osmonics Inc Osmo Membrane Sys Div	
Minnetonka MN.....	612-933-2277
Sel-Rex/OMI Intl Corp Nutley NJ.....	201-867-5200
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Williams Gold Refining Co Inc Precious Metals Div	
Buffalo NY.....	716-837-1000

PRODUCTION SERVICES—PC LAYOUT DESIGN & ARTWORK

DCI INC OLATHE KS.....	913-782-5672
TIME ZERO CORP CLIFTON NJ.....	201-340-0400
ADV PG 370	
Adtech Inc Honolulu HI.....	808-941-0708
Algorex Corp Hauppauge NY.....	516-434-9400
Applied Image Inc Rochester NY.....	716-482-0300
Applied Microsystems Corp Redmond WA.....	206-882-2000
Apsco Inc Mentor OH.....	216-352-8961
A-Systems Inc Charlottesville VA.....	804-295-7200
Bishop Graphics Inc Westlake Village CA.....	818-991-2600
Cencorp Sub Dover Technology Inc	
Boulder CO.....	303-665-4204
Control Technology Corp Hopkinton MA.....	617-435-9595
Control Technology Div AirBorn Elect Corp	
Garland TX.....	214-272-5544
Controltek Inc Portland OR.....	503-641-0876
Datafran Labs Inc Sussex NJ.....	914-856-4313
Dattilo Electronics Louisville KY.....	502-267-4446
DCI Inc Olathe KS.....	913-782-5672
Delviss Corp Fredericktown OH.....	614-694-9015
El Microcircuits Inc Mankato MN.....	507-345-5786
Electronic Associates Inc	
West Long Branch NJ.....	201-229-1100
ElectroShield Inc Yellow Springs OH.....	513-767-1054
Elgin Electronics Erie PA.....	814-864-4921

E/M Corp West Lafayette IN.....	317-463-2511
Enterprise Systems Corp Dover NH.....	603-742-7363
General Digital Corp East Hartford CT.....	203-528-9041
G M I Electronics Inc Plainfield NJ.....	201-755-5980
Hughes Electronics Products Corp Livonia MI.....	313-427-8310
IEC Electronics Corp Newark NJ.....	315-331-7742
Industrial Micro-Systems Inc Southington CT.....	203-628-4844
Intelligent Controls Inc Saco ME.....	207-283-0156
K C Industries Inc Cambridge NE.....	308-697-4711
Kimchuk Inc Brookfield CT.....	203-775-0441
Leighton Electronics Inc Leighton PA.....	215-377-5990
Manu-Tronics Inc Kenosha WI.....	414-694-7700
Medaglia Engineering Co Baltimore MD.....	301-685-0960
National Telephone & Elctns Inc Miami FL.....	305-592-0551
NPC Electronics New Brighton MN.....	612-633-4591
Oklahoma Aerotronics Inc Hartshorne OK.....	918-297-2566
Optifab Inc Phoenix AZ.....	602-271-0921
Pacific Industries Div D'Angelo Entrps	
Franklin Park IL.....	312-451-1505
Scope Inc Reston VA.....	703-471-5600
SFE Technologies San Fernando CA.....	818-365-9411
Sparton of Canada Ltd London ON.....	519-455-6320
Sparton Technology Inc Rio Rancho NM.....	505-892-5300
SubCon Mfg Corp Algonquin IL.....	312-658-6525
Techrand Corp of America Muskegon MI.....	616-744-1663
Time Zero Corp Clifton NJ.....	201-340-0400
Valtronic Inc Lombard IL.....	312-953-0077
Wayne Kerr Inc Woburn MA.....	617-938-8390
Winland Electronics Inc Mankato MN.....	507-625-7231
XYZ Electronics Inc Indianapolis IN.....	317-335-2128

PRODUCTION SERVICES—PHOTOMASK PREPARATION

See Photomask Preparation

PRODUCTION SERVICES—PLATING

MICRO PARTS INC ST PAUL MN.....	612-488-6791
ADV PG 258	
Additive Products Div Kollmorgen Corp	
Aquebogue NY.....	516-722-4100
Arnold Engineering Co Marengo IL.....	815-568-2000
Astrolab Inc Warren NJ.....	201-560-3800
Auto-Swage Products Inc Shelton CT.....	203-929-1401
Budd Cato Assoc Inc Brielle NJ.....	201-528-7439
Burton Plating Co Los Angeles CA.....	213-776-4090
Cambridge Plating Co Inc Belmont MA.....	617-489-2750
Eastman Kodak Co Rochester NY.....	716-724-4000
Electronic Surface Coatings Sub Tanury Industries	
Lincoln RI.....	401-343-9400
Fotofabrication Corp Chicago IL.....	312-463-6211
Frenchtown Ceramics Co Frenchtown NJ.....	201-996-2121
Glasseal Products Inc Lakewood NJ.....	201-370-9100
Globe Nickel Plating Co Malden MA.....	617-322-2390
Handy & Harman Electronic Mats Corp	
North Attleboro MA.....	617-695-1401
Hi-Tech Gold Plating Worcester MA.....	617-799-4168
Hopwood Retinng Corp Malden MA.....	617-322-2390
Instrument Specialties Co Inc	
Delaware Water Gap PA.....	717-424-8510
International Micro Industries Cherry Hill NJ.....	609-424-3112
Leighton Electronics Inc Leighton PA.....	215-377-5990
Materials Research Corp Orangeburg NY.....	914-359-4200
MCE Semiconductor Inc West Palm Beach FL.....	305-845-2837
Micro Parts Inc St Paul MN.....	612-488-6791
National Beryllia Div/General Ceramics Inc	
Haskell NJ.....	201-839-1600
Oklahoma Aerotronics Inc Hartshorne OK.....	918-297-2566
Pierce Magnetics Los Angeles CA.....	213-264-7855
Sifco Selective Plating Div Sifco Ind Inc	
Cleveland OH.....	216-524-0099
Sparton Technology Inc Rio Rancho NM.....	505-892-5300
Stanford Applied Engineering Santa Clara CA.....	408-988-0700
Valley Design Corp Littleton MA.....	617-486-8933

PRODUCTION SERVICES—SEMICONDUCTOR WAFER, SILICON FOUNDRIES (NOT DESIGN SERVICE)

See ICs, Monolithic, Custom for Design &
Production

PRODUCTION SERVICES—SILK SCREEN PREPARATION

See Silk Screen Preparation

PRODUCTION SERVICES—SOLDERING

ACC ELECTRONICS AN ECHLIN CO	
INDEPENDENCE KS.....	316-331-1000
ADV PG 370	
ALMOR CO INC WEYMOUTH MA.....	617-331-8400
CAPCO/ELECTROHM	
GRAND JUNCTION CO.....	303-243-8753
MEA DIV UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY.....	607-772-7563
ADV PG 371	
TIME ZERO CORP CLIFTON NJ.....	201-340-0400
UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY.....	607-775-1102
ADV PG 371	
Abilities Inc Albertson NY.....	516-P17-5400
ACC Electronics an Echlin Co	
Independence KS.....	316-331-1000

Acme Model Engineering Co Ridgefield NJ.....	201-943-7650
Adtech Inc Honolulu HI.....	808-941-0708
Almor Co Inc Weymouth MA.....	617-331-8400
Altek Co Torrington CT.....	203-482-7626
American Electric Cable Co Holyoke MA.....	413-539-9893
American Science & Engineering Inc Cambridge MA.....	617-868-1600
Apasco Inc Mentor OH.....	216-352-8961
Argent Industries Inc Englewood OH.....	513-836-8633
Astrio Corp Fremont CA.....	415-659-9200
Astrolab Inc Warren NJ.....	201-560-3800
A-Systems Inc Charlottesville VA.....	804-295-7200
Automatic Coil Corp Hialeah FL.....	305-883-5311
B & F Instruments Div FX Sys Corp Kingston NY.....	914-338-0515
Capco/Lectrohm Grand Junction CO.....	303-243-8753
Cencorp Sub Dover Technology Inc Boulder CO.....	303-665-4204
Control Technology Corp Hopkinton MA.....	617-435-9595
Controltek Inc Portland OR.....	503-641-0876
Corlund Electronics Corp Newbury Park CA.....	805-499-6877
dataCon Inc The Wire Wrappers Burlington MA.....	617-273-5800
Datatran Labs Inc Sussex NJ.....	914-856-4313
Deca Mfg Co Inc Lexington OH.....	419-884-0071
Designatronics Inc Sub Automatic Coil New Hyde Park NY.....	516-328-3333
Doran Mfg Co Cincinnati OH.....	513-681-5424
Dowty Electronics Co Brandon VT.....	802-247-6811
Electronic Associates Inc West Long Branch NJ.....	201-229-1100
Electronic Component Assembly Inc La Mesa CA.....	619-464-0910
Electronic Tool Co Inc Pleasantville NY.....	914-769-8070
Electroprep Inc Cataumet MA.....	617-563-5559
ElectroShield Inc Yellow Springs OH.....	513-767-1054
ELMA Div Sandberg Ind Inc Irvine CA.....	714-261-9473
Enterprise Systems Corp Dover NH.....	603-742-7363
Estes Engineering Co Port Angeles WA.....	206-457-0904
Ewald Instruments Kent CT.....	203-927-3278
G M I Electronics Inc Newark CA.....	415-794-3539
G M I Electronics Inc Plainfield NJ.....	201-755-5980
Grumman Electronics Systems Div Great River NY.....	516-435-6000
Hopwood Retinning Corp Malden MA.....	617-322-2390
IEC Electronics Corp Newark NY.....	315-331-7742
Jetronics Co Div J L Hall Co Inc Santa Rosa CA.....	707-544-2436
K C Industries Inc Cambridge NE.....	308-697-4711
Kurz Instruments Inc Carmel Valley CA.....	408-659-3421
Leecraft Mfg Co Inc Long Island City NY.....	718-392-8800
Leighton Electronics Inc Leighton PA.....	215-377-5990
Light Fabrications Inc Rochester NY.....	716-235-6310
Manger Electric Co Inc Stamford CT.....	203-348-7761
Manu-Tronics Inc Kenosha WI.....	414-694-7700
MEA Div Universal Instruments Corp Binghamton NY.....	607-772-7563
Medaglia Engineering Co Baltimore MD.....	301-685-0960
Micro Metrics Inc Paterson NJ.....	201-345-9700
Miller Co L C Monterey Park CA.....	213-268-3611
Mindrum Precision Products Rancho Culamonga CA.....	714-989-1728
Mutron Corp Brockton MA.....	617-364-2442
National Telephone & Elctns Inc Miami FL.....	305-592-0551
NPC Electronics New Brighton MN.....	612-633-4591
Omega Leads Inc Santa Monica CA.....	213-346-6786
Paraplegics Mfg Co Inc Bensenville IL.....	312-625-7740
Rectico Inc Fairfield NJ.....	201-575-0009
Ross Co Milton Southampton PA.....	215-355-0200
Roxter Corp Long Island City NY.....	212-392-5060
SCI Systems Inc Huntsville AL.....	205-882-4800
S K G Associates Inc Norwell MA.....	617-878-7250
Sparton of Canada Ltd London ON.....	519-455-6320
Sparton Technology Inc Rio Rancho NM.....	505-892-5300
Storm Products Co Ingleswood CA.....	213-776-8141
Strandberg Engineering Labs Inc Greensboro NC.....	919-274-3775
SubCon Mfg Corp Algonquin IL.....	312-658-8525
Techrand Corp of America Muskegon MI.....	616-744-1663
Time Zero Corp Clifton NJ.....	201-340-0400
Transducer Systems Inc Kulpville PA.....	215-256-4611
Tridac Div Indicon Inc Brookfield CT.....	203-775-1287
Universal Instruments Corp Binghamton NY.....	607-775-1102
Whitmor Wire & Cable Corp North Hollywood CA.....	818-764-6296
XYZ Electronics Inc Indianapolis IN.....	317-335-2128

PRODUCTION SERVICES—TINNING (HOT DIP)

ALMOR CO INC WEYMOUTH MA.....	617-331-8400
Almor Co Inc Weymouth MA.....	617-331-8400
American Electric Cable Co Holyoke MA.....	413-539-9893
Argent Industries Inc Englewood OH.....	513-836-8633
Assemblybionics Inc Brentwood OH.....	516-231-4440
Automatic Coil Corp Hialeah FL.....	305-883-5311
B & F Instruments Div FX Sys Corp Kingston NY.....	914-338-0515
Electro Cords Div Middlebury IN.....	219-825-9466
Electroprep Inc Cataumet MA.....	617-563-5559
Estes Engineering Co Port Angeles WA.....	206-457-0904
Glaescol Products Inc Lakewood NJ.....	201-370-9100
Globe Nickel Plating Co Malden MA.....	617-322-2390
GSI Corp Timonium MD.....	301-252-1768
Hopwood Retinning Corp Malden MA.....	617-322-2390
IEC Electronics Corp Newark NY.....	315-331-7742
Instrument Specialties Co Inc Delaware Water Gap PA.....	717-424-8510
Leecraft Mfg Co Inc Long Island City NY.....	718-392-8800
Light Fabrications Inc Rochester NY.....	716-235-6310
Manger Electric Co Inc Stamford CT.....	203-348-7761
Medaglia Engineering Co Baltimore MD.....	301-685-0960
National Telephone & Elctns Inc Miami FL.....	305-592-0551
Omega Leads Inc Santa Monica CA.....	213-346-6786
Paraplegics Mfg Co Inc Bensenville IL.....	312-625-7740
Stewart Stamping Corp Yonkers NY.....	914-965-0816
Storm Products Co Ingleswood CA.....	213-776-8141

Techrand Corp of America Muskegon MI.....	616-744-1663
Tinning Co Everett MA.....	617-389-3400
Vertex Electronics Inc Farmingdale NY.....	516-293-9880
Whitmor Wire & Cable Corp North Hollywood CA.....	818-764-6296

PRODUCTION SERVICES—WIRE CUTTING, STRIPPING & MARKING

See Also Wire—Cut & Stripped

ALMOR CO INC WEYMOUTH MA.....	617-331-8400
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips TIME ZERO CORP CLIFTON NJ.....	201-340-0400
U S ELECTRONICS CORP UNION NJ.....	201-688-0111
Abilities Inc Albertson NY.....	516-317-5400
Ackerman Gould Co Inc Bohemia NY.....	516-589-2000
Action Labs Inc Woodville WI.....	715-698-2525
Aircraft & Electronic Specialties Inc Plainfield IN.....	317-272-2551
Allied Systems Corp Greensboro NC.....	919-299-2294
Almor Co Inc Weymouth MA.....	617-331-8400
American Electric Cable Co Holyoke MA.....	413-539-9893
Apasco Inc Mentor OH.....	216-352-8961
Automatic Coil Corp Hialeah FL.....	305-883-5311
Calmont Engineering & Electronics Inc Santa Ana CA.....	714-549-0336
Carpenter Mfg Co Inc Manlius NY.....	315-682-9176
Circuit Assembly Corp Irvine CA.....	714-855-7887
Corlund Electronics Corp Newbury Park CA.....	805-499-6877
dataCon Inc The Wire Wrappers Burlington MA.....	617-273-5800
Datatran Labs Inc Sussex NJ.....	914-856-4313
Deca Mfg Co Inc Lexington OH.....	419-884-0071
Denronics Inc Hackensack NJ.....	201-343-9405
Diversified Traffic Prods Inc Mercury Elctns Div York PA.....	717-854-9557
Dowty Electronics Co Brandon VT.....	802-247-6811
Electro Cords Div Middlebury IN.....	219-825-9466
Electronic Component Assembly Inc La Mesa CA.....	619-464-0910
Electronic Tool Co Inc Pleasantville NY.....	914-769-8070
Electroprep Inc Cataumet MA.....	617-563-5559
ElectroShield Inc Yellow Springs OH.....	513-767-1054
ELMA Div Sandberg Ind Inc Irvine CA.....	714-261-9473
Endicott Coil Co Inc Binghamton NY.....	607-797-1263
Estes Engineering Co Port Angeles WA.....	206-457-0904
Formulabs Industrial Inks Inc Escondido CA.....	800-531-9358
G M I Electronics Inc Plainfield NJ.....	201-755-5980
Grumman Electronics Systems Div Great River NY.....	516-435-6000
GSI Corp Timonium MD.....	301-252-1768
Hobson Brothers Inc Chicago IL.....	312-283-3600
IEC Electronics Corp Newark NY.....	315-331-7742
Jetronics Co Div J L Hall Co Inc Santa Rosa CA.....	707-544-2436
Kurz Instruments Inc Carmel Valley CA.....	408-659-3421
Light Fabrications Inc Rochester NY.....	716-235-6310
Manger Electric Co Inc Stamford CT.....	203-348-7761
Medaglia Engineering Co Baltimore MD.....	301-685-0960
Methode Electronics Inc Chicago IL.....	312-867-9800
Micro Metrics Inc Paterson NJ.....	201-345-9700
Mutron Corp Brockton MA.....	617-364-2442
National Telephone & Elctns Inc Miami FL.....	305-592-0551
National Wire & Cable Corp Los Angeles CA.....	213-225-5611
Northern Automatic Assembly Inc Shoreview MN.....	612-481-0022
Omega Leads Inc Santa Monica CA.....	213-346-6786
Panduit Corp Tinley Park IL.....	312-532-1800
Paraplegics Mfg Co Inc Bensenville IL.....	312-625-7740
Permaluster Inc Burbank CA.....	213-849-4543
PHI Conrac Machine Tool Westminster CA.....	714-894-4711
Quandrat Corp Torrance CA.....	213-538-9800
Sager Hingham MA.....	617-749-6700
Sag Harbor Industries Inc Sag Harbor NY.....	516-725-0440
Sittler Corp Chicago IL.....	312-733-4616
Sparton Technology Inc Rio Rancho NM.....	505-892-5300
Storm Products Co Ingleswood CA.....	213-776-8141
Techrand Corp of America Muskegon MI.....	616-744-1663
Time Zero Corp Clifton NJ.....	201-340-0400
Transducer Systems Inc Kulpville PA.....	215-256-4611
U S Electronics Corp Union NJ.....	201-688-0111
Vertex Electronics Inc Farmingdale NY.....	516-293-9880
V P Industries Inc Paterson NJ.....	201-345-5800
Whitmor Wire & Cable Corp North Hollywood CA.....	818-764-6296
XYZ Electronics Inc Indianapolis IN.....	317-335-2128
Zenith Wire & Cable Corp Ronkonkoma NY.....	516-585-1444

PRODUCTION SERVICES—WIRING, BACKPLANE (WIRE-WRAPPING, ETC.)

See Also Cable Assemblies; Wiring Harnesses

ALMOR CO INC WEYMOUTH MA.....	617-331-8400
MEA DIV UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY.....	607-772-7563
ADV PG 371 MUPAC CORP BROCKTON MA.....	617-588-6110
TIME ZERO CORP CLIFTON NJ.....	201-340-0400
UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY.....	607-775-1102
ADV PG 371 Abilities Inc Albertson NY.....	516-317-5400
Abrams Instrument Corp Lansing MI.....	517-332-6405
Action Labs Inc Woodville WI.....	715-698-2525
Adtech Inc Honolulu HI.....	808-941-0708
Almor Co Inc Weymouth MA.....	617-331-8400
Altek Co Torrington CT.....	203-482-7626
American Electric Cable Co Holyoke MA.....	413-539-9893
Apasco Inc Mentor OH.....	216-352-8961
B & F Instruments Div FX Sys Corp Kingston NY.....	914-338-0515

Circuit Assembly Corp Irvine CA.....	714-855-7
Control Technology Div AirBorn Elect Corp Garland TX.....	214-272-5
dataCon Inc The Wire Wrappers Burlington MA.....	617-273-5
Datapan Systems Inc Palisades Park NJ.....	201-461-3
Datawrap Inc Wakefield MA.....	617-246-5
Da-Tech Corp Ivyland PA.....	215-322-9
Designatronics Inc Sub Automatic Coil New Hyde Park NY.....	516-328-3
Dowty Electronics Co Brandon VT.....	802-247-6
Electronic Associates Inc West Long Branch NJ.....	201-229-1
Elfab Corp Dallas TX.....	214-233-3
Elgin Electronics Erie PA.....	418-864-4
ELMA Div Sandberg Ind Inc Irvine CA.....	714-261-9
G M I Electronics Inc Plainfield NJ.....	201-755-
Grumman Electronics Systems Div Great River NY.....	516-435-6
Hughes Electronics Products Corp Livonia MI.....	313-427-8
Hybricon Corp Littleton MA.....	617-486-0
IEC Electronics Corp Newark NY.....	315-331-7
Kurz Instruments Inc Carmel Valley CA.....	408-659-3
Leighton Electronics Inc Leighton PA.....	215-377-5
Masterite Industries Corp Torrance CA.....	213-775-3
MEA Div Universal Instruments Corp Binghamton NY.....	607-772-7
Medaglia Engineering Co Baltimore MD.....	301-685-0
Methode Electronics Inc Chicago IL.....	312-867-9
Micro Metrics Inc Paterson NJ.....	201-345-9
Miller Communications Systems Ltd Kanata ON.....	613-592-3
Moore Systems-Stitchweid Corp Chatsworth CA.....	818-882-7
Mupac Corp Brockton MA.....	617-588-6
Mutron Corp Brockton MA.....	617-364-2
National Telephone & Elctns Inc Miami FL.....	305-592-0
Northern Automatic Assembly Inc Shoreview MN.....	612-481-0
O K Industries Bronx NY.....	212-994-6
Paraplegics Mfg Co Inc Bensenville IL.....	312-625-7
Precilcoat Inc Langhorne PA.....	215-757-1
Raven Industries Inc Sioux Falls SD.....	605-336-2
Sparton Technology Inc Rio Rancho NM.....	505-892-5
Stanford Applied Engineering Santa Clara CA.....	408-988-0
Storm Products Co Ingleswood CA.....	213-776-8
Support Systems Intl Cables & Access Div Richmond CA.....	415-234-9
Techrand Corp of America Muskegon MI.....	616-744-1
T-F Electronics Inc Austin TX.....	512-836-7
Time Zero Corp Clifton NJ.....	201-340-0
Transducer Systems Inc Kulpville PA.....	215-256-4
Universal Instruments Corp Binghamton NY.....	607-775-1
USECO Div Litton Systems Inc Van Nuys CA.....	818-786-9
Wire Graphics Inc Farmingdale NY.....	516-293-1
XYZ Electronics Inc Indianapolis IN.....	317-335-2

PROGRAMMED TEACHING MACHINES

See Teaching Machines

PROGRAMMERS—BROADCAST (AUTOMATIC PLAYBACK SYSTEMS)

Broadcast Electronics Inc Quincy IL.....	217-224-9
Lindburg Enterprises Inc San Diego CA.....	619-566-5
Microvoice Systems Inc Laguna Hills CA.....	714-859-1
NPC Electronics New Brighton MN.....	612-633-4
Tape-Athon Corp Ingleswood CA.....	213-676-6

PROGRAMMERS—COMPUTER PATCHBOARD

See Computer Patchboards; Plugboards &
Problem Boards

PROGRAMMERS—INSTRUMENT (EXCEPT COMPUTERS)

AEG CORPORATION SOMERVILLE NJ.....	201-722-91
BLUE M UNIT OF GENERAL SIGNAL BLUE ISLAND IL.....	312-385-91
COLE INSTRUMENT CORP SANTA ANA CA.....	714-556-31
RESEARCH INSTRUMENT CO INC SOUTH WINDSOR CT.....	203-528-91
TECH LABORATORIES INC PALISADES PARK NJ.....	201-944-21
Abrams Instrument Corp Lansing MI.....	517-332-6
AEG Corporation Somerville NJ.....	201-722-9
Azonix Corp Burlington MA.....	617-273-5
Bailey Controls Co Wickliffe OH.....	216-585-8
Bayside Controls Clifton NJ.....	201-778-6
Behman Engineering Carpinteria CA.....	805-684-8
Blue M Unit of General Signal Blue Island IL.....	312-385-9
Bowmar Instrument Corp Ft Wayne Div Ft Wayne IN.....	219-747-3
Butler Mfg Co Controls Div Redmond WA.....	206-823-7
Cole Instrument Corp Santa Ana CA.....	714-556-3
Computer Numerical Control Corp Woburn MA.....	617-933-0
Crystal Specialties Inc Portland OR.....	503-684-0
Delta Design Inc San Diego CA.....	619-292-5
Divebiss Corp Fredericktown OH.....	614-694-9
Eagle Signal Controls Div Wickes Mfg Co Austin TX.....	512-837-8
ECO Instruments Div Sea Data Corp Newton MA.....	617-964-8
Electro-Craft Corp Hopkins MN.....	612-931-2
Eltek Instruments Inc Fairfield NJ.....	201-882-8

moder Products Co Sandpoint ID.....	208-263-8541
ercorp Instruments Ltd Islington ON.....	416-231-5335
rotherm Corp Reston VA.....	703-471-4870
erett/Charles Marketing Services Inc	
Fontana CA.....	714-899-2521
ne Foxboro Co Foxboro MA.....	617-543-8750
E Co Automation Controls Oper	
Charlottesville VA.....	804-978-5000
arrel Inc East Norwalk CT.....	203-866-2573
& L Instruments Burlingame CA.....	415-342-7850
oneywell Inc IPC-Div York PA.....	717-848-1151
oneywell Process Control Div	
FI Washington PA.....	215-641-3000
S Electronics Corp San Jose CA.....	408-263-4844
strumentation & Control Systems Inc	
Addison IL.....	312-543-6200
th Co Inc Pico Rivera CA.....	213-685-3484
eds & Northrup Instruments	
North Wales PA.....	215-643-2000
ve Controls Corp Wheeling IL.....	312-541-3232
ft Instruments Inc Lincoln MA.....	617-259-9215
IC Industries Inc Co-Ord Switch Div	
Freeport NY.....	516-868-1900
oneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
PM Inc Cleveland OH.....	216-292-6006
research Instrument Co Inc	
South Windsor CT.....	203-528-9625
/Control Systems Div Research Inc	
Minneapolis MN.....	612-941-3300
quential Information Systems Inc	
Elmsford NY.....	914-592-5930
ch Laboratories Inc Palisades Park NJ.....	201-944-2221
allow Electric Winona MN.....	507-454-5300
el Controls Inc Mishawaka IN.....	219-259-7804

PROGRAMMERS—MACHINE TOOL

See Controls—Machine Tool

PROGRAMMERS—MATRIX TYPE

D Data Systems Inc Rochester NY.....	716-334-9649
Advanced Systems Concepts Inc	
Pasadena CA.....	213-793-8972
isan Electronics Corp Parsippany NJ.....	201-887-7100
yside Controls Clifton NJ.....	201-778-6811
ic Izumi Corp Osaka Japan.....	81-6-2005530
IC Industries Inc Co-Ord Switch Div	
Freeport NY.....	516-868-1900
ac Panel Co High Point NC.....	919-884-8111
erise Switch Co Upland CA.....	714-982-8988
rogram Data Inc Irvine CA.....	714-660-0818
cal-Dana Instruments Inc Irvine CA.....	714-859-8999
nor Co Inc New Berlin WI.....	414-782-3800

PROGRAMMERS—POWER SUPPLY

CG CORPORATION SOMERVILLE NJ.....	201-722-9800
EL ELECTRONICS CORP	
MT VERNON NY.....	914-699-2000
PCO INC FLUSHING NY.....	718-461-7000
ADV PG 338	
CG Corporation Somerville NJ.....	201-722-9800
tronics Corp Arcadia CA.....	818-445-5470
hman Engineering Carpinteria CA.....	805-684-8311
ifornia Instruments San Diego CA.....	619-279-8620
rlton Industries Inc El Toro CA.....	714-770-7846
AG Electric Corp Hauppauge NY.....	516-582-4422
Electronics Corp Mt Vernon NY.....	914-699-2000
th Co Inc Pico Rivera CA.....	213-685-3484
pc Co Flushing NY.....	718-461-7000
ron Electronics Inc Schaumburg IL.....	312-843-7900
rensen Co A Unit of Raytheon Co	
Manchester NH.....	603-668-4500
andard Power Inc Santa Ana CA.....	714-558-8512

PROGRAMMERS—PROM

INTERNATIONAL MICROSYSTEMS INC	
AUBURN CA.....	916-885-7262
ADV PG 375	

PROGRAMMERS—PULSE (ROM PROGRAMMER)

INTERNATIONAL MICROSYSTEMS INC	
AUBURN CA.....	916-885-7262
ADV PG 375	
cutest Chelmsford MA.....	617-256-8124
ams Macdonald Enterprises Inc	
Monterey CA.....	408-373-3607
vantest Corp Tokyo Japan.....	03-342-7500
go Electronics Corp Harrison NJ.....	201-484-1115
y Technical Associates Inc	
Bay St Louis MS.....	601-467-8231
el Inc Santa Clara CA.....	408-727-6562
ative Micro Systems Los Alamitos CA.....	213-493-2484
memco Inc Mtn View CA.....	415-964-7400
rtis Electro Devices Inc Mtn View CA.....	415-964-3846
bernetic Micro Systems Inc	
San Gregorio CA.....	415-726-3000
ta I/O Corp Redmond WA.....	206-881-6444
ta-Sud/Systems US Inc Tempe AZ.....	602-438-1492
tricon Corp Portland OR.....	503-684-3232
atec Systems Inc Sandy UT.....	801-572-6867
gle Signal Controls Div Wickes Mfg Co	
ustin TX.....	512-837-8300
n Digital Systems Palo Alto CA.....	415-964-5338
ctronic Programming Corp Santa Clara CA.....	408-746-0333

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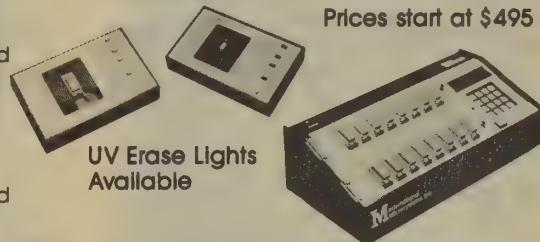
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Epro Corporation San Jose CA.....	408-262-3912
GNT Automatic Inc Waltham MA.....	617-890-3305
International Microsystems Inc Auburn CA.....	916-885-7262
Logical Devices Inc Ft Lauderdale FL.....	305-974-0975
Minato Electronics Inc	
Kohoku-ku, Yokohama Japan.....	045-591-5611
Nicolet Paratronics Corp Fremont CA.....	415-490-8300
Oliver Advanced Engineering Inc Glendale CA.....	818-240-0080
PPM Inc Cleveland OH.....	216-292-6006
Programmable Devices Inc Woburn MA.....	617-935-9530
Pro-Log Corp Monterey CA.....	408-372-4593
Southern Computer Corp Atlanta GA.....	404-455-8018
Stag Microsystems Inc Sunnyvale CA.....	408-745-1991
Step Engineering Sunnyvale CA.....	408-733-7837
Sunrise Electronics Inc Glendora CA.....	818-914-1926
Zendex Corp Dublin CA.....	415-828-3000
Ziatech Corp San Luis Obispo CA.....	805-541-0488

PROGRAMMING SERVICES

See Software Listings

PROJECTION LAMPS

See Lamps

PROJECTORS—DISPLAY

See Display Listings

PROPORTIONING CONTROLS

See Controls

PROTECTIVE COATINGS

See Coating Compounds

PROTECTORS—CIRCUIT

See Circuit Breakers

Fuses—Current Limiting

Lightning Arresters

Relays—Overload

Relays—Overvoltage

Surge Protectors

PROTOTYPING BOARDS

See Breadboards

PROXIMITY CONTROLS

See Controls; Switches—Proximity

PUBLIC ADDRESS SYSTEMS

See Audio Systems

PULSE INSTRUMENTS

See Analyzers; Counters; Generators—Signal; Programmers

PUMPS—VACUUM

See Vacuum Pumps

PUNCHED-CARD EQUIPMENT

See Computer Card Readers; Key punches; Readers—Punched Card Static

PUNCHED-TAPE EQUIPMENT

See Memories—Punched Tape; Paper Tape Listings

PUNCHED-TAPE OR PUNCHED-CARD CONTROLS

See Controls—Machine Tool

PUNCHING MACHINES

See Machines—Metal Punch Presses; Machines, PC Production—Punching

PUSHBUTTONS

See Switches—Illuminated;

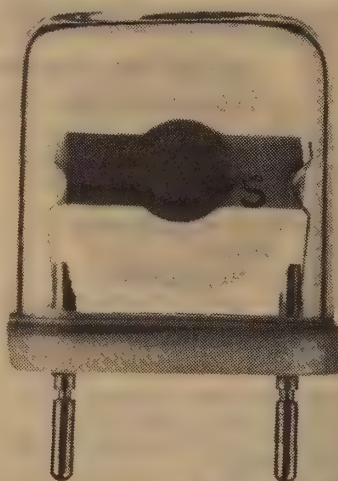
Switches—Pushbutton

PYROMETER CALIBRATORS

See Calibrators

PYROMETERS

HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
MODUTEC INC NORWALK CT	203-853-3636
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Capintec Instruments Inc Ramsey NJ	201-825-9500
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Electrophysics Corp Nutley NJ	201-667-2262
Eltek Instruments Inc Fairfield NJ	201-882-8033
En-Cer Inc South Holland IL	312-339-6310
Enercorp Instruments Ltd Islington ON	416-231-5335
Epic Inc New York NY	212-349-2470
Everest Interscience Inc Tustin GA	714-992-4461
Extech Instruments & Cont Div Waltham MA	617-890-7440
Gordon Co Claud S Richmond IL	815-678-2211
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Harrel Inc East Norwalk CT	203-866-2573
Honeywell Process Control Div	
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Howell Instruments Inc Fort Worth TX	817-336-7411
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Huppert Co K H South Holland IL	312-339-2020
Hy-Cal Engineering El Monte CA	818-444-4000
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Namrac Corp Framingham Centre MA	617-872-4811
NES Inc Carpentersville IL	312-426-5900
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Omega Engineering Inc Stamford CT	203-359-1660
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Pioneer Instrumentation Div Pioneer Std	
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Precision Digital Corp Watertown MA	617-924-2256
Pyc Inc Pennell PA	215-757-3704
Research Instrument Co Inc	
South Windsor CT	203-528-9625
Sager Hingham MA	617-749-6700
Sensortek Inc Clifton NJ	201-779-5577
Simpson Electric Co Elgin IL	312-697-2260
Symson International Inc South Bend IN	219-232-3900
Telatemp Corp Fullerton CA	714-679-2901
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
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New York NY	212-481-1800
Thermo-Dynamics Inc Merriam KS	913-384-3100

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General Elec Co Quartz Prods Dept	
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Heraeus Amersil Inc Sayreville NJ	201-254-2500
Pan American Trade Development Corp	
New York NY	212-481-1800
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Thermal American Fused Quartz Co	
Montville NJ	201-334-7770

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Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Thermal American Fused Quartz Co	
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GTE Precision Materials Danvers MA	617-777-1900
Heraeus Amersil Inc Sayreville NJ	201-254-2500
Meller Co Adolf Providence RI	401-331-3717

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Dell Optics Co Inc North Bergen NJ	201-869-7300
Dynasil Corp of America Berlin NJ	609-767-4600
Esco Products Oak Ridge NJ	201-697-3700
Garner Glass Co Claremont CA	714-624-5000
General Elec Co Quartz Prods Dept	
Cleveland OH	216-266-9058
Heraeus Amersil Inc Sayreville NJ	201-254-2500
Meller Co Adolf Providence RI	401-331-3717
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Radio-Research Instrument Co Inc Danbury CT.....	203-792-6666
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Bell Aerospace Textron Div Buffalo NY.....	716-297-1000
Cardion Electronics Div Gen Signal Corp Woodbury NY.....	516-921-7300
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Furuno USA Inc So San Francisco CA.....	415-873-9393
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Scientific-Atlanta Inc Atlanta GA	404-441-4000
Signatron Inc Lexington MA	617-861-1500
Systems Research Labs Inc Dayton OH	513-426-6000
Teledyne Micronetics San Diego CA	619-583-3525
Universal Metal Spinning Co Albuquerque NM	505-298-6894
Vega Precision Labs Vienna VA	703-938-6300
Whittaker Corp Tasker Sys Div Simi Valley CA	805-584-8200
Zeta Labs Inc Sub CCT Santa Clara CA	408-727-6001

RADAR TESTERS

See Test Systems; Radar Target Simulators

See Also Instruments & Accessories Reference

List

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See Accelerators

Chambers

Counters

Dosimeters

Leak Detectors—Radioactive Tracer

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Capintec Instruments Inc Ramsey NJ	201-825-9500
Collins & Assoc Don L Glendale CA	213-245-2711
NRD Div Mark Indus Inc Grand Island NY	716-773-7634
RIL Electronics Inc Warrington PA	215-343-5075
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Pulsar Products Inc Union City CA	415-487-5400
RIL Electronics Inc Warrington PA	215-343-5075

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See Kits

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Eaton Corp AIL Div Deer Park NY	516-595-5000
EG & G Gamma Scientific Inc San Diego CA	619-279-8034
Hy-Cal Engineering El Monte CA	818-444-4000
Labsphere Inc North Sutton NH	603-927-4266
LNR Communications Inc Hauppauge NY	516-273-7111
Photodyne Inc Newbury Park CA	818-889-8770

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Capintec Instruments Inc Ramsey NJ	201-825-9500
Eaton Corp AIL Div Deer Park NY	516-595-5000
EG & G Gamma Scientific Inc San Diego CA	619-279-8034
Electro-Optical Industries Inc Santa Barbara CA	805-964-6701

Everest Interscience Inc Tustin GA	714-992-4461
Honeywell Electro-Optics Div Lexington MA	617-862-6222
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International Thermal Instrument Co Del Mar CA	619-755-4436
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Labsphere Inc North Sutton NH	603-927-4266
Land Instruments Inc Tullytown PA	215-943-7882
Laser Precision Corp Utica NY	315-797-4449
Lytron Systems Inc Laser Sys Div Orlando FL	305-295-4010
LNR Communications Inc Hauppauge NY	516-273-7111
Photodyne Inc Newbury Park CA	818-889-8770
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RCA Government Systems Div Cherry Hill NJ	609-338-3000
Santa Barbara Research Center Goleta CA	805-968-3511
Tektronix Inc Beaverton OR	800-547-6711
Litton Systems Inc Garland TX	214-271-2561
United Detector Technology Hawthorne CA	213-978-0516
UVP Inc San Gabriel CA	818-285-3123
Williamson Corp Concord MA	617-369-9607
Yellow Springs Instrument Co Inc Yellow Springs OH	513-767-7241

RADIOMETERS—INFRARED

See Infrared Systems—Scientific

RADIOMETERS—MICROWAVE

Alpha Industries Inc Woburn MA	617-935-5150
Eaton Corp AIL Div Deer Park NY	516-595-5000
Epsilon-Lambda Electronics Corp Geneva IL	212-232-9611
Honeywell Santa Barbara Microwave Ctr Santa Barbara CA	805-965-1013
Hughes Aircraft Co Microwave Prods Div Torrance CA	213-517-6400
LNR Communications Inc Hauppauge NY	516-273-7111
M/A COM Microwave Circuits Inc Burlington MA	617-272-3000
M/A-COM Millimeter Products Inc Burlington MA	617-272-3000

RADIO REMOTE CONTROLS

See Controls, Remote—Radio

RADIOSONDES

RADIO-RESEARCH INSTRUMENT CO INC DANBURY CT ADV PG 377	203-792-6666
Communiconics Ltd Bohemia NY	516-567-8320
Oklahoma Aerotronics Inc Hartshorne OK	818-297-2566
Radio-Research Instrument Co Inc Danbury CT	203-792-6666
RCA Government Systems Div Cherry Hill NJ	609-338-3000
Viz Test Equip Div Viz Mfg Co Philadelphia PA	215-844-2626

RADIO SYSTEMS

See Communications Systems

RADIOTELESCOPES—ANTENNAS

Alpha Industries Inc Woburn MA	617-935-5150
Eaton Corp AIL Div Deer Park NY	516-595-5000
Electronic Space Systems Corp Concord MA	617-369-7200
Radiation Systems Inc Sterling VA	703-450-5680

RADIOTELESCOPES—RECEIVERS

Alpha Industries Inc Woburn MA	617-935-5150
LNR Communications Inc Hauppauge NY	516-273-7111

RADIO TRANSCEIVERS

See Receivers—Radio Communications

RADIO TRANSMITTERS

See Transmitters

RADOMES—AIRCRAFT & MISSILE

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Corning Glass Works Tech Prods Div Corning NY	607-974-9000
Decibel Products Inc Dallas TX	214-631-0310
Diamond Antenna & Microwave Corp Winchester MA	617-729-5500
Electronic Space Systems Corp Concord MA	617-369-7200
Goodyear Aerospace Corp Akron OH	216-796-2121
Grimes Div Midland Ross Corp Urbana OH	513-652-1431
Heath Techn Aerospace Co Kent WA	206-872-7500
Lockheed-Georgia Co Marietta GA	404-424-4914
Milliflect Inc Newark CA	415-791-5188
Norton Co Worcester MA	617-853-1000
Nurad Inc Baltimore MD	301-462-1700
Plasti-Glas Molded Products Inc Trenton NJ	609-587-1188
Rogers Corp ATD Lithonia GA	404-981-9830
Teledyne Micronetics San Diego CA	619-583-3525

RADOMES—GROUND (EXCEPT INFLATABLE)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Cetec Antennas Div Cetec Corp Sacramento CA	916-383-1300
Chu Associates Inc Littleton MA	617-456-3232
Corning Glass Works Tech Prods Div Corning NY	607-974-9000
Diamond Antenna & Microwave Corp Winchester MA	617-729-5500
Electronic Space Systems Corp Concord MA	617-369-7200
Gabriel Electronics Inc Scarborough ME	207-883-7000
Lockheed-Georgia Co Marietta GA	404-424-4914
Milliflect Inc Newark CA	415-791-5188
Nurad Inc Baltimore MD	301-462-1700
Parabam Inc Rancho Dominguez CA	213-537-1717
Plasti-Glas Molded Products Inc Trenton NJ	609-587-1188

RADOMES—INFLATABLE

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Chemical Fabrics Corp Merrimack NH	603-424-9000
Electronic Space Systems Corp Concord MA	617-369-7200

RADOMES—SHIP

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Chu Associates Inc Littleton MA	617-456-3232
Diamond Antenna & Microwave Corp Winchester MA	617-729-5500
Electro-Nav Inc Elizabeth NJ	201-527-0000
Electronic Space Systems Corp Concord MA	617-369-7200
Goodyear Aerospace Corp Akron OH	216-796-2121
Milliflect Inc Newark CA	415-791-5188
Nurad Inc Baltimore MD	301-462-1700

RADOMES—SUBMERSIBLE

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Chu Associates Inc Littleton MA	617-456-3232
Corning Glass Works Tech Prods Div Corning NY	607-974-9000
Diamond Antenna & Microwave Corp Winchester MA	617-729-5500
Goodyear Aerospace Corp Akron OH	216-796-2121

RAILROAD COMMUNICATIONS EQUIPMENT

See Communications Systems; Receivers;

Transmitters

RAND TABLETS

See Computer Input Tablets

RARE EARTHS

GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT CLEVELAND OH	216-266-2400
Atomerich Chemetals Corp Plainview NY	516-349-8800
Cerac Inc Milwaukee WI	414-289-9800
General Diode Corp Framingham MA	617-879-0800
Gen Elec Co Glass & Metallurgical Prods Dept Cleveland OH	216-266-2400
Materials Research Corp Orangeburg NY	914-359-4200
Reade Metals & Minerals Corp Rumson NJ	201-842-2200
Ronson Metals Corp Newark NJ	201-589-1300
Sifco Selective Plating Div Sifco Ind Inc Cleveland OH	216-524-0000
Stamet Mfg Corp Fairfield NJ	201-227-2400
United Mineral & Chemical Corp New York NY	212-966-4300
Universal Photonics Inc Hicksville NY	516-935-4000

RATIOMETERS

Racal-Dana Instruments Inc Irvine CA	714-859-8900
Tettex Instruments Inc Fairview Village PA	215-539-6000
Weinschel Engineering Co Inc Gaithersburg MD	301-948-3400

REACTORS—FILTER

See Coils—Choke

REACTORS—SATURABLE

See Magnetic Amplifiers; Saturable Reactors

READERS—BADGE & CREDIT CARD

Computerwise Inc Olathe KS	913-829-0600
Digi-Log Circuits Co Huntsville AL	205-881-7800
Elcom Industries Inc St Louis MO	314-429-3100

ckok Electrical Instrument Co Cleveland OH.....	216-541-8060
Justrial Computer Designs Inc	
Westlake Village CA.....	818-889-3179
ermec Corp Lynnwood WA.....	206-348-2600
ag-Tek Inc Carson CA.....	213-631-8602
croperipheral Corp Redmond WA.....	206-881-7544
gular Command Systems Inc	
Fountain Valley CA.....	714-963-8844
rcon /Peripheral Connections Inc	
Eugene OR.....	503-344-1189
ripheral Dynamics Inc	
Plymouth Meeting PA.....	215-825-7090
obot Industries Inc Dearborn MI.....	313-846-2623
sco Electronic Systems Glendale CA.....	818-240-2540
il Systems Inc Huntsville AL.....	205-882-4800
electro Corp Trumbull CT.....	203-372-4118
reter Richardson Div Grayslake IL.....	312-223-4801
urus Corp Lambertville NJ.....	609-397-2390
lesis Controls Corp Chillicothe OH.....	614-642-3200
je Data Corp Irvine CA.....	714-979-4842
on Industries Inc Melville NY.....	516-293-2200
sch Ailyn Inc Industrial Div	
Skaneateles Falls NY.....	315-685-8395
po Inc Chatsworth CA.....	818-709-4403

READERS—DOCUMENT

See Computer Input Image Scanners

READERS—MAGNETIC CARD & PRINT

See Magnetic Card Readers

READERS—MICROFILM

See Computer Output Microfilm Readers

READERS—PUNCHED CARD, COMPUTER

See Computer Card Readers

READERS—PUNCH CARD (STATIC TYPES)

See Also Computer Card Readers

SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
il Inc Victoria MN.....	612-443-2500
ckok Electrical Instrument Co Cleveland OH.....	216-541-8060
electro Corp Trumbull CT.....	203-372-4118
nsor Technology Inc Chatsworth CA.....	213-882-4100
okai Far East Ltd Hartsdale NY.....	914-681-0700
urus Corp Lambertville NJ.....	609-397-2390
rtex Industries Inc Vertel Div Clifton NJ.....	201-472-2121

READERS—PUNCHED TAPE

See Paper Tape Readers

READOUTS

See Also Displays

RRAND CONTROLS DIV FARRAND INDUS INC	
VALHALLA NY.....	914-761-2600
GER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
AMCO INC FOUNTAIN VALLEY CA.....	714-545-5560
ematic Polarizers Inc Reading PA.....	215-373-5177
tomation Displays Inc Eau Claire WI.....	715-834-9595
onix Corp Burlington MA.....	617-273-5550
erry Electrical Products Corp Waukegan IL.....	312-662-9200
Tek Inc Wakefield MA.....	617-246-1720
ta Control Ltd Fiberoptics Div	
Palo Alto CA.....	415-494-1350
latran Labs Inc Sussex NJ.....	914-856-4313
ytroic Corp Miamisburg OH.....	513-866-3300
icon Industries Inc Pompano Beach FL.....	305-782-7424
ton Corp /MSC Products Costa Mesa CA.....	714-642-2427
M Systems Wauconda IL.....	312-526-5003
rand Controls Div Farrand Indus Inc	
Valhalla NY.....	914-761-2600
neral Instrument Lamp Div Chicago IL.....	312-784-1020
Industrial Electronic Engineers Inc	
Van Nuys CA.....	818-787-0311
ntelvideo Technology Inc Montevideo MN.....	612-269-6562
bit Instrument Corp Hauppauge NY.....	516-435-8300
ilips Electronic Comps & Mats Div	
Elindhoven Netherlands.....	040791111
neer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
cision Digital Corp Watertown MA.....	617-924-2256
fac Electronics Corp Winsted CT.....	203-379-2731
ger Hingham MA.....	617-749-6700
elly Assoc Inc Tustin CA.....	714-669-9850
iffall Inc Providence RI.....	401-351-8282
iver Co Inc Bay Shore NY.....	516-666-8000
edney-Gurley Troy NY.....	518-272-6300
eder-Root Hartford CT.....	203-527-7201
itech Div Vernitron Corp Deer Park NY.....	516-586-5100
imco Inc Fountain Valley CA.....	714-545-5560

READOUTS

See Display Listings

Indicator Lights

Addresses, phones & sales offices, see green pages

Indicators—General Purpose

Meters—Panel

Tubes, Cathode Ray—Shaped Beam & Character

Tubes—Indicator

RECEIVERS—MICROWAVE

See Microwave System Type Desired

RECEIVERS—PANORAMIC

Eaton Corp AIL Div Deer Park NY.....	516-595-5000
General Instrument Corp Govt Systems Div	
Hicksville NY.....	516-933-3408
Integra Microwave Santa Clara CA.....	408-727-9601
LNR Communications Inc Hauppauge NY.....	516-273-7111
Polarad Electronics Inc Lake Success NY.....	516-328-1100
Scientific Communications Inc Garland TX.....	214-840-4900
Teledyne Microelectronics Los Angeles CA.....	213-870-9831

RECEIVERS—RADAR

See Radar System Desired

RECEIVERS, RADIO

BROADCAST—AUTO (CHASSIS & CONTROLS ONLY)

Abalon Precision Mfg Corp Bronx NY.....	212-589-5682
Automatic Radio Sales Inc Melrose MA.....	617 321-2300
Craig Consumer Electronics Compton CA.....	213-537-1233
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Ercona Corp Port Jefferson Sta NY.....	516-331-5500
Heath Co Benton Harbor MI.....	616-982-3200
NEC America Inc Melville NY.....	516-753-7000
Roberts Security & Page Service	
Torrance CA.....	213-378-0451
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Thomson CSF Inc White Plains NY.....	914-694-4450

RECEIVERS, RADIO

BROADCAST—HOME, MONAURAL (CHASSIS & CONTROLS ONLY)

SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
Abalon Precision Mfg Corp Bronx NY.....	212-589-5682
Cetec Raymer North Hollywood CA.....	213-875-0423
Heath Co Benton Harbor MI.....	616-982-3200
NEC America Inc Melville NY.....	516-753-7000
Precision Electronics Inc Franklin Park IL.....	312-678-3222
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Thomson CSF Inc White Plains NY.....	914-694-4450
Waller Corp Crystal Lake IL.....	815-459-6510

RECEIVERS, RADIO

BROADCAST—HOME, STEREO FM (CHASSIS & CONTROLS ONLY)

SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
Abalon Precision Mfg Corp Bronx NY.....	212-589-5682
Emerson Radio Corp North Bergen NJ.....	201-854-4800
Ercona Corp Port Jefferson Sta NY.....	516-331-5500
Heath Co Benton Harbor MI.....	616-982-3200
NEC America Inc Melville NY.....	516-753-7000
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Waller Corp Crystal Lake IL.....	815-459-6510

RECEIVERS, RADIO

COMMUNICATIONS—AIRCRAFT RECEIVERS & TRANSCEIVERS, VOICE

ACI Audior Communications Inc Ottawa ON.....	613-523-9933
Applied Communications Div Amstar Tech Prods Inc	
Frederick MD.....	301-694-5300
Bendix Air Transport Avionics Div	
Ft Lauderdale FL.....	305-928-2100
B F Electronics Solana Beach CA.....	619-755-1881
Comstron Corp Freeport NY.....	516-546-9700
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Genave Inc Indianapolis IN.....	317-262-2000
General Aviation Electronics Inc	
Indianapolis IN.....	317-262-2000
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Hazeltine Corp Commack NY.....	516-462-5100
Johnson International E F Waseca MN.....	507-835-6222
LaPointe Industries Inc Rockville CT.....	203-872-8581
Lorch Electronics Corp Englewood NJ.....	201-569-8282
NEC America Inc Melville NY.....	516-753-7000
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Regency Electronics Inc Indianapolis IN.....	317-545-4281
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX.....	214-996-5000
Schaffner EMC Inc Instrument Div Union NJ.....	201-851-0644
SCI Systems Inc Huntsville AL.....	205-882-4800
Sperry Corp Aerospace & Marine Group	
Phoenix AZ.....	602-869-2311

Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Thomson CSF Inc White Plains NY.....	914-694-4450
Watkins-Johnson Co Palo Alto CA.....	415-493-4141

RECEIVERS, RADIO

COMMUNICATIONS—AIRCRAFT RECEIVERS & TRANSCEIVERS, VOICE GROUND STATIONS

Aerocom Miami FL.....	305-448-6503
Applied Communications Div Amstar Tech Prods Inc	
Frederick MD.....	301-694-5300
Astronautics Corp of America Milwaukee WI.....	414-447-8200
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Genave Inc Indianapolis IN.....	317-262-2000
General Aviation Electronics Inc	
Indianapolis IN.....	317-262-2000
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Hazeltine Corp Commack NY.....	516-462-5100
Johnson Co E F/Radio Products Div	
Waseca MN.....	507-835-6222
Johnson International E F Waseca MN.....	507-835-6222
Kahn Communications Inc Westbury NY.....	516-222-2221
LaPointe Industries Inc Rockville CT.....	203-872-8581
Lorch Electronics Corp Englewood NJ.....	201-569-8282
NEC America Inc Melville NY.....	516-753-7000
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Regency Electronics Inc Indianapolis IN.....	317-545-4281
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX.....	214-996-5000
Scientific Radio Systems Inc Rochester NY.....	716-458-3733
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Thomson CSF Inc White Plains NY.....	914-694-4450
Watkins-Johnson Co Palo Alto CA.....	415-493-4141

RECEIVERS, RADIO

COMMUNICATIONS—A-M, FIXED STATION

Aerocom Miami FL.....	305-448-6503
B F Electronics Solana Beach CA.....	619-755-1881
Comstron Corp Freeport NY.....	516-546-9700
Genave Inc Indianapolis IN.....	317-262-2000
Johnson Co E F/Radio Products Div	
Waseca MN.....	507-835-6222
Johnson International E F Waseca MN.....	507-835-6222
Kahn Communications Inc Westbury NY.....	516-222-2221
LaPointe Industries Inc Rockville CT.....	203-872-8581
Lorch Electronics Corp Englewood NJ.....	201-569-8282
NEC America Inc Melville NY.....	516-753-7000
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Roberts Security & Page Service	
Torrance CA.....	213-378-0451
Southern Avionics Co Beaumont TX.....	409-842-1717
Stoner Communications Inc	
Rancho Cucamonga CA.....	714-987-4624
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Thomson CSF Inc White Plains NY.....	914-694-4450
Watkins-Johnson Co Palo Alto CA.....	415-493-4141

RECEIVERS, RADIO

COMMUNICATIONS—AMATEUR RECEIVERS & TRANSCEIVERS

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Heath Co Benton Harbor MI.....	616-982-3200
Nady Systems Inc Consumer Elctns Div	
Oakland CA.....	415-652-2411
NEC America Inc Melville NY.....	516-753-7000
Paraplegics Mfg Co Inc Bensenville IL.....	312-625-7740
Roberts Security & Page Service	
Torrance CA.....	213-378-0451
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX.....	214-996-5000
Ten-Tec Inc Sevierville TN.....	615-453-7172

RECEIVERS, RADIO

COMMUNICATIONS—CITIZENS' BAND TRANSCEIVERS

SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
Automatic Radio Sales Inc Melrose MA.....	617 321-2300
Midland International Corp Kansas City MO.....	816-241-8500
Roberts Security & Page Service	
Torrance CA.....	213-378-0451
Shokai Far East Ltd Hartsdale NY.....	914-681-0700

RECEIVERS, RADIO

COMMUNICATIONS—DISTRESS & EMERGENCY CHANNEL RECEIVERS & TRANSCEIVERS

ACR Electronics Inc Ft Lauderdale FL.....	305-981-3333
Communilronics Ltd Bohemia NY.....	516-567-8320
Dorne & Margolin Inc Bohemia NY.....	516-585-4000
General Aviation Electronics Inc	
Indianapolis IN.....	317-262-2000

General Elec Co Mobile Communications Div Lynchburg VA.....	804-528-7000
Intech Inc Santa Clara CA.....	408-727-0500
Kahn Communications Inc Westbury NY.....	516-222-2221
Kel Corp Melrose MA.....	617-662-2222
Oklahoma Aerotonics Inc Hartshorne OK.....	918-297-2566
Regency Electronics Inc Indianapolis IN.....	317-545-4281

RECEIVERS, RADIO COMMUNICATIONS—DIVERSITY RECEPTION

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Allied Corp Bendix Commun Div Baltimore MD.....	301-583-4000
Applied Communications Div Amstar Tech Prods Inc Frederick MD.....	301-694-5300
Electrac Inc Anaheim CA.....	714-879-6021
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Kahn Communications Inc Westbury NY.....	516-222-2221
Lorch Electronics Corp Englewood NJ.....	201-569-8282
RHG Electronics Lab Inc Deer Park NY.....	516-242-1100
Roberts Security & Page Service Torrance CA.....	213-378-0451
Schaffner EMC Inc Instrument Div Union NJ.....	201-851-0644
Signatron Inc Lexington MA.....	617-861-1500
Swintek Enterprises Campbell CA.....	408-378-8091
TRW Microwave Sunnyvale CA.....	408-732-0880
Watkins-Johnson Co Palo Alto CA.....	415-493-4141

RECEIVERS, RADIO COMMUNICATIONS—FM, FIXED STATION

Applied Communications Div Amstar Tech Prods Inc Frederick MD.....	301-694-5300
Apron Labs Inc Bloomington IN.....	812-336-4775
B F Electronics Solana Beach CA.....	619-755-1881
Bogen Div Lear Siegler Inc Paramus NJ.....	201-343-5700
Cardion Electronics Communications Holtville NY.....	516-289-6200
Comstron Corp Freeport NY.....	516-546-9700
Electrac Inc Anaheim CA.....	714-879-6021
Emerson Radio Corp North Bergen NJ.....	201-854-4800
Fanon Products Fanon Courrier Corp Mission Hills CA.....	818-365-2531
Genave Inc Indianapolis IN.....	317-262-2000
General Aviation Electronics Inc Indianapolis IN.....	317-262-2000
General Elec Co Mobile Communications Div Lynchburg VA.....	804-528-7000
Johnson Co E F/Radio Products Div Waseca MN.....	507-835-6222
Johnson International E F Waseca MN.....	507-835-6222
LaPointe Industries Inc Rockville CT.....	203-872-8581
LNR Communications Inc Hauppauge NY.....	516-273-7111
Loral Data Systems/Conic San Diego CA.....	619-279-0411
Marti Electronics Inc Cleburne TX.....	817-645-9163
Moseley Associates Inc Goleta CA.....	805-968-9621
NEC America Inc Melville NY.....	516-753-7000
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Regency Electronics Inc Indianapolis IN.....	317-545-4281
Reppo Inc Orlando FL.....	305-843-8484
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
Schaffner EMC Inc Instrument Div Union NJ.....	201-851-0644
Seaboard Electronics Div Nealar Corp New Rochelle NY.....	914-235-8073
Standard Communications Corp Los Angeles CA.....	213-532-5300
Swintek Enterprises Campbell CA.....	408-378-8091
Thomson CSF Inc White Plains NY.....	914-694-4450

RECEIVERS, RADIO COMMUNICATIONS—LAND MOBILE, POLICE TELEPRINTER RECEIVERS & TRANSCEIVERS

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Comstron Corp Freeport NY.....	516-546-9700
General Elec Co Mobile Communications Div Lynchburg VA.....	804-528-7000
Johnson International E F Waseca MN.....	507-835-6222
Midland International Corp Kansas City MO.....	816-241-8500
NEC America Inc Melville NY.....	516-753-7000
Reppo Inc Orlando FL.....	305-843-8484
Teledyne Microelectronics Los Angeles CA.....	213-870-9831

RECEIVERS, RADIO COMMUNICATIONS—LAND MOBILE, VOICE

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Applied Communications Div Amstar Tech Prods Inc Frederick MD.....	301-694-5300
Astronautics Corp of America Milwaukee WI.....	414-447-8200
Cardion Electronics Div Gen Signal Corp Woodbury NY.....	516-921-7300

Cubic Corp San Diego CA.....	619-277-6780
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Fargo Co San Francisco CA.....	415-621-1447
Genave Inc Indianapolis IN.....	317-262-2000
General Aviation Electronics Inc Indianapolis IN.....	317-262-2000
General Elec Co Mobile Communications Div Lynchburg VA.....	804-528-7000
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Johnson Co E F/Radio Products Div Waseca MN.....	507-835-6222
Johnson International E F Waseca MN.....	507-835-6222
Kel Corp Melrose MA.....	617-662-2222
LaPointe Industries Inc Rockville CT.....	203-872-8581
Lear Siegler Inc Santa Monica CA.....	213-452-5444
Lorch Electronics Corp Englewood NJ.....	201-569-8282
Midland International Corp Kansas City MO.....	816-241-8500
Moseley Associates Inc Goleta CA.....	805-968-9621
NEC America Inc Melville NY.....	516-753-7000
Nokia-Kinex Largo FL.....	813-541-6404
Regency Electronics Inc Indianapolis IN.....	317-545-4281
Ring Group of North America Great Neck NY.....	516-487-0250
Standard Communications Corp Los Angeles CA.....	213-532-5300
Thomson CSF Inc White Plains NY.....	914-694-4450

RECEIVERS, RADIO COMMUNICATIONS—MARINE, OFFSHORE TRANSCEIVERS

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Comstron Corp Freeport NY.....	516-546-9700
Cubic Corp San Diego CA.....	619-277-6780
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Furuno USA Inc So San Francisco CA.....	415-873-9393
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Intech Inc Santa Clara CA.....	408-727-0500
Kahn Communications Inc Westbury NY.....	516-222-2221
Nady Systems Inc Consumer Elctns Div Oakland CA.....	415-652-2411
NEC America Inc Melville NY.....	516-753-7000
Regency Electronics Inc Indianapolis IN.....	317-545-4281
Reppo Inc Orlando FL.....	305-843-8484
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Scientific-Atlanta Inc Atlanta GA.....	404-441-4000
Scientific Radio Systems Inc Rochester NY.....	716-458-3733
Standard Communications Corp Los Angeles CA.....	213-532-5300
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Thomson CSF Inc White Plains NY.....	914-694-4450

RECEIVERS, RADIO COMMUNICATIONS—MARINE, SHIP RECEIVERS & LONG-RANGE RADIOTELEPHONES

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Comstron Corp Freeport NY.....	516-546-9700
Cubic Corp San Diego CA.....	619-277-6780
Electrac Inc Anaheim CA.....	714-879-6021
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Furuno USA Inc So San Francisco CA.....	415-873-9393
General Aviation Electronics Inc Indianapolis IN.....	317-262-2000
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Intech Inc Santa Clara CA.....	408-727-0500
Kahn Communications Inc Westbury NY.....	516-222-2221
LaPointe Industries Inc Rockville CT.....	203-872-8581
M/A COM Microwave Circuits Inc Burlington MA.....	617-272-3000
Marconi Instruments Div Marconi Elctns Inc Allendale NJ.....	201-934-9050
NEC America Inc Melville NY.....	516-753-7000
Scientific Radio Systems Inc Rochester NY.....	716-458-3733
Stoner Communications Inc Rancho Cucamonga CA.....	714-987-4624
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Thomson CSF Inc White Plains NY.....	914-694-4450

RECEIVERS, RADIO COMMUNICATIONS—MICROWAVE (ABOVE UHF RADIO)

See Microwave Communications Listings

RECEIVERS, RADIO COMMUNICATIONS—MILITARY SPECIAL CODE

See Communications Systems—Military

RECEIVERS, RADIO COMMUNICATIONS—MULTIPLEX CARRIER

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
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AEG Corporation Somerville NJ.....	201-722-9800
Applied Communications Div Amstar Tech Prods Inc Frederick MD.....	301-694-5300
Cardion Electronics Div Gen Signal Corp Woodbury NY.....	516-921-7300
Karkar Electronics Inc San Francisco CA.....	415-552-1200
LNR Communications Inc Hauppauge NY.....	516-273-7111
Loral Data Systems/Conic San Diego CA.....	619-279-0411
Lorch Electronics Corp Englewood NJ.....	201-569-8282
M/A COM Microwave Circuits Inc Burlington MA.....	617-272-3000
Moseley Associates Inc Goleta CA.....	805-968-9621
NEC America Inc Melville NY.....	516-753-7000
Oklahoma Aerotonics Inc Hartshorne OK.....	918-297-2566
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Thomson CSF Inc White Plains NY.....	914-694-4450
TRW Microwave Sunnyvale CA.....	408-732-0880

RECEIVERS, RADIO COMMUNICATIONS—PORTABLE TRANSCEIVERS (EXCEPT CITIZENS' BAND OR RADIO INSTRUMENTS)

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Allied Corp Bendix Commun Div Baltimore MD.....	301-583-4000
Cubic Corp San Diego CA.....	619-277-6780
Emerson Radio Corp North Bergen NJ.....	201-854-4800
Fargo Co San Francisco CA.....	415-621-1447
Genave Inc Indianapolis IN.....	317-262-2000
General Aviation Electronics Inc Indianapolis IN.....	317-262-2000
General Elec Co Mobile Communications Div Lynchburg VA.....	804-528-7000
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Intech Inc Santa Clara CA.....	408-727-0500
International Crystal Mfg Co Inc Oklahoma City OK.....	405-236-3000
Johnson Co E F/Radio Products Div Waseca MN.....	507-835-6222
Johnson International E F Waseca MN.....	507-835-6222
Kel Corp Melrose MA.....	617-662-2222
Midland International Corp Kansas City MO.....	816-241-8500
Nady Systems Inc Consumer Elctns Div Oakland CA.....	415-652-2411
NEC America Inc Melville NY.....	516-753-7000
Nokia-Kinex Largo FL.....	813-541-6404
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Regency Electronics Inc Indianapolis IN.....	317-545-4281
Reppo Inc Orlando FL.....	305-843-8484
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Standard Communications Corp Los Angeles CA.....	213-532-5300
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Thomson CSF Inc White Plains NY.....	914-694-4450

RECEIVERS, RADIO COMMUNICATIONS—PULSE MODULATION

Allied Corp Bendix Commun Div Baltimore MD.....	301-583-4000
Eaton Corp Elctn Inst Div Ronkonkoma NY.....	516-588-3000
Electrac Inc Anaheim CA.....	714-879-6021
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Loral Data Systems/Conic San Diego CA.....	619-279-0411
Lorch Electronics Corp Englewood NJ.....	201-569-8282
RHG Electronics Lab Inc Deer Park NY.....	516-242-1100
Scientific Communications Inc Garland TX.....	214-840-4000
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
TRW Microwave Sunnyvale CA.....	408-732-0880
Watkins-Johnson Co Palo Alto CA.....	415-493-4141
Westport Dev & Mfg Co Inc Orange CT.....	203-795-0000

RECEIVERS, RADIO COMMUNICATIONS—RADIOTELEGRAMS

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Scientific Radio Systems Inc Rochester NY.....	716-458-3733
Stoner Communications Inc Rancho Cucamonga CA.....	714-987-4624
Thomson CSF Inc White Plains NY.....	914-694-4450

RECEIVERS, RADIO COMMUNICATIONS—RAILROAD

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Cardion Electronics Div Gen Signal Corp Woodbury NY.....	516-921-7300
Genave Inc Indianapolis IN.....	317-262-2000
General Elec Co Mobile Communications Div Lynchburg VA.....	804-528-7000
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Intech Inc Santa Clara CA.....	408-727-0500
Regency Electronics Inc Indianapolis IN.....	317-545-4281
Reppo Inc Orlando FL.....	305-843-8484

RECEIVERS, RADIO COMMUNICATIONS—SINGLE SIDEBAND, FIXED STATION

AG CORPORATION SOMERVILLE NJ	201-722-9800
ALD STATE ELECTRONICS CORP NORTHBRIDGE CA	818-993-8257
AG Corporation Somerville NJ.....	201-722-9800
ercom Miami FL.....	305-448-6503
ritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
plied Communications Div Amstar Tech Prods Inc Frederick MD.....	301-694-5300
mmunication Associates Inc Huntington Station NY.....	516-271-0800
monstron Corp Freeport NY.....	516-546-9700
ctrac Inc Anaheim CA.....	714-879-6021
ctro-Nav Inc Elizabeth NJ.....	201-527-0099
uno USA Inc So San Francisco CA.....	415-873-9393
ris Corp RF Comm Grp Rochester NY.....	716-244-5830
ath Co Benton Harbor MI.....	616-982-3200
neywell Santa Barbara Microwave Ctr Santa Barbara CA.....	805-965-1013
ch Inc Santa Clara CA.....	408-727-0500
nn Communications Inc Westbury NY.....	516-222-2221
ointe Industries Inc Rockville CT.....	203-872-8581
land International Corp Kansas City MO.....	816-241-8500
A Government Systems Div Cherry Hill NJ.....	609-338-3000
ckwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
affner EMC Inc Instrument Div Union NJ.....	201-851-0644
entific Radio Systems Inc Rochester NY.....	716-458-3733
ld State Electronics Corp Northridge CA.....	818-993-8257
ner Communications Inc Rancho Cucamonga CA.....	714-987-4624
edyne Microelectronics Los Angeles CA.....	213-870-9831
omson CSF Inc White Plains NY.....	914-694-4450

RECEIVERS, RADIO COMMUNICATIONS—SPACE See Communications Systems—Space

RECEIVERS, RADIO COMMUNICATIONS—TELEMETRY, FLIGHT TEST OR SCIENTIFIC See Communications Systems

RECEIVERS, RADIO COMMUNICATIONS—TELEMETRY, INDUSTRIAL

AG CORPORATION SOMERVILLE NJ	201-722-9800
ALD STATE ELECTRONICS CORP NORTHBRIDGE CA	818-993-8257
arex Autodata Mountain View CA.....	415-964-3200
G Corporation Somerville NJ.....	201-722-9800
oon Industries Inc St Paul MN.....	612-642-1784
Electronics Solana Beach CA.....	619-755-1881
ion Electronics Communications Ioltsville NY.....	516-289-6200
mmunitronics Ltd Bohemia NY.....	516-567-8320
ctrac Inc Anaheim CA.....	714-879-6021
ion-Lambda Electronics Corp Geneva IL.....	312-232-9611
tec Engineering Inc Boulder CO.....	303-447-8750
W Enterprises Eters PA.....	717-938-4691
neywell Santa Barbara Microwave Ctr Santa Barbara CA.....	805-965-1013
Corp Melrose MA.....	617-662-2222
Communications Inc Hauppauge NY.....	516-273-7111
al Data Systems/Conic San Diego CA.....	619-279-0411
A COM Microwave Circuits Inc Burlington MA.....	617-272-3000
seley Associates Inc Goleta CA.....	805-968-9621
ency Electronics Inc Indianapolis IN.....	317-545-4281
nc Inc Orlando FL.....	305-843-8484
affner EMC Inc Instrument Div Union NJ.....	201-851-0644
ntific-Atlanta Inc Atlanta GA.....	404-441-4000
Systems Inc Huntsville AL.....	205-882-4800
board Electronics Div Nealar Corp ew Rochelle NY.....	914-235-8073
na Instruments Inc Fisher Pierce Div raintree MA.....	617-843-5000
ld State Electronics Corp Northridge CA.....	818-993-8257
edyne Microelectronics Los Angeles CA.....	213-870-9831
Microwave Corp Tampa FL.....	813-884-1411
S Systems Div Trak Microwave Corp Tampa FL.....	813-884-1411
Coast Research Corp Los Angeles CA.....	213-478-8833

RECEIVERS, RADIO COMMUNICATIONS—TELEMETRY, SCIENTIFIC See Communications Systems—Telemetry

RECEIVERS, RADIO COMMUNICATIONS—UHF & VHF, FIXED STATION	
AG CORPORATION SOMERVILLE NJ	201-722-9800

addresses, phones & sales offices, see green pages

AEG Corporation Somerville NJ.....	201-722-9800
Aerocom Miami FL.....	305-448-6503
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Applied Communications Div Amstar Tech Prods Inc Frederick MD.....	301-694-5300
Applied Research Inc Plainville NY.....	516-349-9200
Aydin Vector Div Newtown PA.....	215-968-4271
B F Electronics Solana Beach CA.....	619-755-1881
Cardion Electronics Div Gen Signal Corp Woodbury NY.....	516-921-7300
Communitrronics Ltd Bohemia NY.....	516-567-8320
Comstron Corp Freeport NY.....	516-546-9700
Eaton Corp Elctn Inst Div Ronkonkoma NY.....	516-588-3600
Electrac Inc Anaheim CA.....	714-879-6021
E-Systems Inc Garland Div Dallas TX.....	214-272-0515
Genave Inc Indianapolis IN.....	317-262-2000
General Aviation Electronics Inc Indianapolis IN.....	317-262-2000
General Elec Co Mobile Communications Div Lynchburg VA.....	804-528-7000
Harris Corp RF Comm Grp Rochester NY.....	716-244-5830
Heath Co Benton Harbor MI.....	616-982-3200
Intech Inc Santa Clara CA.....	408-727-0500
Johnson Co E F Radio Products Div Waseca MN.....	507-835-6222
Johnson International E F Waseca MN.....	507-835-6222
LaPointe Industries Inc Rockville CT.....	203-872-8581
LNR Communications Inc Hauppauge NY.....	516-273-7111
Loral Data Systems/Conic San Diego CA.....	619-279-0411
Lorch Electronics Corp Englewood NJ.....	201-569-8282
Marti Electronics Inc Cleburne TX.....	817-645-9163
Midland International Corp Kansas City MO.....	816-241-8500
Mobil Electronics Inc Anderson IN.....	317-642-7976
Moseley Associates Inc Goleta CA.....	805-968-9621
NEC America Inc Melville NY.....	516-753-7000
Oklahoma Aerotronics Inc Hartshorne OK.....	918-297-2566
Raytheon Marine Co Manchester NH.....	603-668-1600
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Regency Electronics Inc Indianapolis IN.....	317-545-4281
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Rodale Electronics Corp Garden City NY.....	516-222-0050
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
Schaffner EMC Inc Instrument Div Union NJ.....	201-851-0644
Scientific-Atlanta Inc Atlanta GA.....	404-441-4000
Scientific Communications Inc Garland TX.....	214-840-4900
Scientific Radio Systems Inc Rochester NY.....	716-458-3733
Standard Communications Corp Los Angeles CA.....	213-532-5300
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Thomson CSF Inc White Plains NY.....	914-694-4450

RECEIVERS, RADIO COMMUNICATIONS—VLF

Communitrronics Ltd Bohemia NY.....	516-567-8320
Comstron Corp Freeport NY.....	516-546-9700
Controlonics Corp Westford MA.....	617-692-3000
Marconi Instruments Div Marconi Elctns Inc Allendale NJ.....	201-934-9050
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
Rycom Instruments Raytown MO.....	800-851-7347
Schaffner EMC Inc Instrument Div Union NJ.....	201-851-0644
Spectracom Corp East Rochester NY.....	716-381-4827
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Thomson CSF Inc White Plains NY.....	914-694-4450
Tracor Inc Austin TX.....	512-929-2051
Trak Microwave Corp Tampa FL.....	813-884-1411
Trak Systems Div Trak Microwave Corp Tampa FL.....	813-884-1411

RECEIVERS, RADIO COMMUNICATIONS—WWW

Communitrronics Ltd Bohemia NY.....	516-567-8320
Kinematics/True Time Santa Rosa CA.....	707-528-1230
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
Schaffner EMC Inc Instrument Div Union NJ.....	201-851-0644
Spectracom Corp East Rochester NY.....	716-381-4827
Teledyne Microelectronics Los Angeles CA.....	213-870-9831

RECEIVERS—RADIOMETERS

See Radiometers

RECEIVERS, RADIO NAVIGATION—AIRCRAFT BEACON (INCL. RADIO RANGE, NOT INCLUDING FOLLOWING TYPES LISTED)

RADIO-RESEARCH INSTRUMENT CO INC DANBURY CT	203-792-6666
ADV PG 377	
Bendix Air Transport Avionics Div Ft Lauderdale FL.....	305-928-2100
Cardion Electronics Div Gen Signal Corp Woodbury NY.....	516-921-7300
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Intech Inc Santa Clara CA.....	408-727-0500
Nautical Electronic Labs Ltd Hacketts Cove NS.....	902-823-2233

Radio-Research Instrument Co Inc Danbury CT.....	203-792-6666
Republic Electronics Inc Melville NY.....	516-249-1414
RFI Inc Tampa FL.....	813-872-1502
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Southern Avionics Co Beaumont TX.....	409-842-1717
Sperry Corp Aerospace & Marine Group Phoenix AZ.....	602-869-2311
Vega Precision Labs Vienna VA.....	703-938-6300

RECEIVERS, RADIO NAVIGATION—AIRCRAFT DIRECTION FINDERS

RADIO-RESEARCH INSTRUMENT CO INC DANBURY CT	203-792-6666
ADV PG 377	
ACI Avionics Communications Inc Ottawa ON.....	613-523-9933
Bendix Air Transport Avionics Div Ft Lauderdale FL.....	305-928-2100
Cardion Electronics Div Gen Signal Corp Woodbury NY.....	516-921-7300
E-Systems Inc Garland Div Dallas TX.....	214-272-0515
Intech Inc Santa Clara CA.....	408-727-0500
Radio-Research Instrument Co Inc Danbury CT.....	203-792-6666
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Rodale Electronics Corp Garden City NY.....	516-222-0050
Servo Corp of America Hicksville NY.....	516-938-9700
Sperry Corp Aerospace & Marine Group Phoenix AZ.....	602-869-2311
Teledyne Microelectronics Los Angeles CA.....	213-870-9831

RECEIVERS, RADIO NAVIGATION—AIRCRAFT INSTRUMENT LANDING AIDS

Bell Aerospace Textron Div Buffalo NY.....	716-297-1000
Bendix Air Transport Avionics Div Ft Lauderdale FL.....	305-928-2100
Cardion Electronics Div Gen Signal Corp Woodbury NY.....	516-921-7300
Comdel Inc Beverly MA.....	617-927-3144
Genave Inc Indianapolis IN.....	317-262-2000
Lear Siegler Inc Instrument Div Grand Rapids MI.....	616-241-7000
Mobil Electronics Inc Anderson IN.....	317-642-7976
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Rodale Electronics Corp Garden City NY.....	516-222-0050
SCI Systems Inc Huntsville AL.....	205-882-4800
Singer Co Kearfoot Div Little Falls NJ.....	201-785-6000
Sperry Corp Aerospace & Marine Group Phoenix AZ.....	602-869-2311
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Thomson CSF Inc White Plains NY.....	914-694-4450

RECEIVERS, RADIO NAVIGATION—LORAN (AIR OR SHIP)

Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Furuno USA Inc So San Francisco CA.....	415-873-9393
Lear Siegler Inc Instrument Div Grand Rapids MI.....	616-241-7000
Raytheon Marine Co Manchester NH.....	603-668-1600
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Rodale Electronics Corp Garden City NY.....	516-222-0050
Teledyne Microelectronics Los Angeles CA.....	213-870-9831

RECEIVERS, RADIO NAVIGATION—NAVIGATION SATELLITE (AIR OR SHIP)

Electrac Inc Anaheim CA.....	714-879-6021
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Frequency & Time Systems Inc Beverly MA.....	617-927-8220
Hazeltine Corp Commack NY.....	516-462-5100
Interstate Electronics Corp Anaheim CA.....	714-758-0500
LNR Communications Inc Hauppauge NY.....	516-273-7111
Raytheon Marine Co Manchester NH.....	603-668-1600
RHG Electronics Lab Inc Deer Park NY.....	516-242-1100
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Scientific-Atlanta Inc Atlanta GA.....	404-441-4000
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Tracor Inc Austin TX.....	512-929-2051

RECEIVERS, RADIO NAVIGATION—OMEGA (AIR OR SHIP)

Communitrronics Ltd Bohemia NY.....	516-567-8320
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Lear Siegler Inc Instrument Div Grand Rapids MI.....	616-241-7000
Rockwell Intl Corp Commercial Elctns Opers Richardson TX.....	214-996-5000
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Tracor Inc Austin TX.....	512-929-2051

For ADVERTISERS' CATALOGS see Directory of Catalogs (white pages)

RECEIVERS, RADIO NAVIGATION—SHIP, AUTOMATIC ALARM

Cardion Electronics Div Gen Signal Corp Woodbury NY	516-921-7300
Comdel Inc Beverly MA	617-927-3144
Dewey Electronics Corp Oakland NJ	201-337-4700
Electrac Inc Anaheim CA	714-879-6021
Electro-Nav Inc Elizabeth NJ	201-527-0099
Episco Inc Westwood MA	617-329-1500
Furuno USA Inc So San Francisco CA	415-873-9393
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Teledyne Microelectronics Los Angeles CA	213-870-9831

RECEIVERS, RADIO NAVIGATION—TACTICAL, STATION-KEEPING, ETC.

See Aircraft Systems

RECEIVERS—RADIOTELESCOPES

See Radiotelescopes

RECEIVERS—SONAR

See Sonar

RECEIVERS—TV

See TV Receivers

RECORDERS—CAMERA TYPES

See Cameras

RECORDERS—EVENT

THORN EMI TECHNOLOGY INC ATLANTA GA ADV PG 251	404-587-0017
Bailey Controls Co Wickliffe OH	216-585-8500
Ballantyne Laboratories Inc Boonton NJ	201-335-0900
Chessell Corp Newtown PA	215-968-0660
Dianachart Inc Rockaway NJ	201-625-2299
Doric Scientific Div Emerson Elec Co San Diego CA	619-565-4415
Dranetz Technologies Inc Edison NJ	201-287-3680
Electric Tachometer Corp Philadelphia PA	215-726-7721
Elecor Associates Morris Plains NJ	201-299-1615
Elnik Instruments Inc Fairfield NJ	201-882-8033
Eurotherm Corp Reston VA	703-471-4870
Fairchild Weston Systems Inc Sarasota FL	813-371-0811
Forma Scientific Div Mallinckrodt Inc Marietta OH	614-373-4763
Furuno USA Inc So San Francisco CA	415-873-9393
General Instrument Corp Govt Systems Div Hicksville NY	516-933-3408
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Gould Inc Design & Test Sys Div Santa Clara CA	408-988-6800
Gould Inc Recording Systems Div Cleveland OH	216-361-3315
Gulton Graphic Insts Div East Greenwich RI	401-884-6800
Hathaway Corp Denver CO	303-773-4700
Honeywell Test Instruments Div Denver CO	303-773-4700
Ideale Electronics Corp Valley Stream NY	516-825-8955
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Larsen Instrument Co Inc Orangeburg NY	914-359-3800
LeCroy Corp Spring Valley NY	914-425-2000
Leeds & Northrup Instruments North Wales PA	215-643-2000
Leupold & Stevens Inc Beaverton OR	503-646-9171
LSI Avionic Sys Corp Sub Lear Siegler Inc Florham Park NJ	201-822-1300
Macrodyn Inc Schenectady NY	518-356-3500
Marel Instrument Co Cape Coral FL	813-574-8788
Pacific Instruments Inc Concord CA	415-827-9010
Panalarum Div Ametek Inc Skokie IL	312-675-2500
Pioneer Instrumentation Div Pioneer Std Cleveland OH	216-587-3600
PPM Inc Cleveland OH	216-292-6006
Practical Automation Inc Shelton CT	203-929-5381
Raytheon Ocean Systems Co East Providence RI	401-438-1780
Reproduction Technologies Inc Bristol IN	219-848-5233
Rochester Instrument Systems Inc Rochester NY	716-263-7700
Simpson Electric Co Elgin IL	312-697-2260
Soltec Corp Sun Valley CA	818-767-0044
Stoelting Co Chicago IL	312-522-4500
Summagraphics Corp Fairfield CT	203-384-1344
Telectro Systems Corp Corona NY	212-651-8900
Thomson CSF Inc White Plains NY	914-694-4450
Thorn EMI Technology Inc Atlanta GA	404-587-0017
UFI Morro Bay CA	805-772-1203
Veeder-Root Hartford CT	203-527-7201
Western Graphtec Inc Irvine CA	714-770-6010
Wilmar Electronics Inc Torrance CA	213-326-6668

RECORDERS—FACSIMILE

See Facsimile Equipment

RECORDERS—FLIGHT (CRASH)

See Aircraft Flight Recorders

RECORDERS, GRAPHIC—CIRCULAR CHART

OMEGA ENGINEERING INC STAMFORD CT ADV PGS 385, Gatefold	203-359-1660
Bailey Controls Co Wickliffe OH	216-585-8500
Bristol Babcock Inc Waterbury CT	203-575-3000
Fischer & Porter Co Warminster PA	215-674-6000
Forma Scientific Div Mallinckrodt Inc Marietta OH	614-373-4763
The Foxboro Co Foxboro MA	617-543-8750
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Honeywell Process Control Div Ft Washington PA	215-641-3000
ITT Barton Instruments Co City of Industry CA	818-961-2547
Kaye Instruments Inc Bedford MA	617-275-0300
Kent Process Control Inc Edison NJ	201-225-1717
Leeds & Northrup Instruments North Wales PA	215-643-2000
Omega Engineering Inc Stamford CT	203-359-1660
Soltec Corp Sun Valley CA	818-767-0044
Strandberg Engineering Labs Inc Greensboro NC	919-274-3775
Sycon-Weston Div Sycon Corp Marion OH	614-382-5771
United Electric Controls Co Watertown MA	617-926-1000

RECORDERS, GRAPHIC—IMPEDANCE

ECO Instruments Div Sea Data Corp Newton MA	617-964-8360
Gould Inc Recording Systems Div Cleveland OH	216-361-3315
Gulton Graphic Insts Div East Greenwich RI	401-884-6800
MFE Instruments Corp Salem NH	603-893-1921
Soltec Corp Sun Valley CA	818-767-0044

RECORDERS, GRAPHIC—SELF-BALANCING, POTENTIOMETER TYPE

OMEGA ENGINEERING INC STAMFORD CT ADV PGS 385, Gatefold	203-359-1660
Bristol Babcock Inc Waterbury CT	203-575-3000
Chart Pool USA Portage IN	219-763-1541
Chessell Corp Newtown PA	215-968-0660
Elnik Instruments Inc Fairfield NJ	201-882-8033
Fischer & Porter Co Warminster PA	215-674-6000
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Gould Inc Recording Systems Div Cleveland OH	216-361-3315
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Honeywell Process Control Div Ft Washington PA	215-641-3000
Houston Instrument Austin TX	512-835-0900
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Kipp & Zonen Bohemia NY	516-589-2885
Leeds & Northrup Instruments North Wales PA	215-643-2000
Linear Instruments Corp Reno NV	702-786-3636
Linsels Inc Princeton Junction NJ	800-RECORD
Love Controls Corp Wheeling IL	312-541-3232
Omega Engineering Inc Stamford CT	203-359-1660

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Sensortek Inc Clifton NJ	201-779-5151
Soltec Corp Sun Valley CA	818-767-0044
Strandberg Engineering Labs Inc Greensboro NC	919-274-3775
Yokogawa Corp Of America Shenandoah GA	404-253-7000

RECORDERS, GRAPHIC—STRIP CHART ANALOG INPUT, MINIATURE

ASTRO-MED INC WEST WARWICK RI ADV PG 383	401-828-4000
B-G INSTRUMENTS INC ALTA LOMA CA ADV PG 367	714-989-4800
OMEGA ENGINEERING INC STAMFORD CT ADV PGS 385, Gatefold	203-359-1660
AEMC Corp Boston MA	617-451-0200
Amprobe Instrument Div Core Indus Inc Lynbrook NY	516-593-5000
Anasco Corp Wakefield MA	617-246-3000
Astro-Med Inc West Warwick RI	401-828-4000
Bailey Controls Co Wickliffe OH	216-585-8500
B-G Instruments Inc Alta Loma CA	714-989-4800
Bristol Babcock Inc Waterbury CT	203-575-3000
Bruehl & Kjaer Instruments Inc Marlboro MA	617-481-7000
Chart Pool USA Portage IN	219-763-1541
Chessell Corp Newtown PA	215-968-0660
Dianachart Inc Rockaway NJ	201-625-2299
ECO Instruments Div Sea Data Corp Newton MA	617-964-8360
Electronic Development Labs Inc Hauppauge NY	516-435-2800
Elnik Instruments Inc Fairfield NJ	201-882-8033
Ensercorp Instruments Ltd Islington ON	416-231-5300
Eurotherm Corp Reston VA	703-471-4870
Fischer & Porter Co Warminster PA	215-674-6000
The Foxboro Co Foxboro MA	617-543-8750
General Scanning Inc Watertown MA	617-924-1000
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Gould Inc Recording Systems Div Cleveland OH	216-361-3315
Honeywell Process Control Div Ft Washington PA	215-641-3000
James Electronics Inc Chicago IL	312-463-6800
Kent Process Control Inc Edison NJ	201-225-1717
Leeds & Northrup Instruments North Wales PA	215-643-2000
Linear Instruments Corp Reno NV	702-786-3636
Linsels Inc Princeton Junction NJ	800-RECORD
Love Controls Corp Wheeling IL	312-541-3232
Marel Instrument Co Cape Coral FL	813-574-8788
MFE Instruments Corp Salem NH	603-893-1921
Moore Products Co Spring House PA	215-646-4000
Omega Engineering Inc Stamford CT	203-359-1660
Pioneer Instrumentation Div Pioneer Std Cleveland OH	216-587-3600
PPM Inc Cleveland OH	216-292-6006
Sennheiser Electronic Corp (NY) New York NY	212-944-9000
Simpson Electric Co Elgin IL	312-697-2260
Soltec Corp Sun Valley CA	818-767-0044
Sperry Instruments Inc A W Hauppauge NY	516-231-7100
Tektronix Inc Beaverton OR	800-547-6000
Wallace & Tiernan Div Pennwalt Corp Belleville NJ	201-759-8100
Western Graphtec Inc Irvine CA	714-770-6010

RECORDERS, GRAPHIC—STRIP CHART ANALOG INPUT, MULTICHANNEL

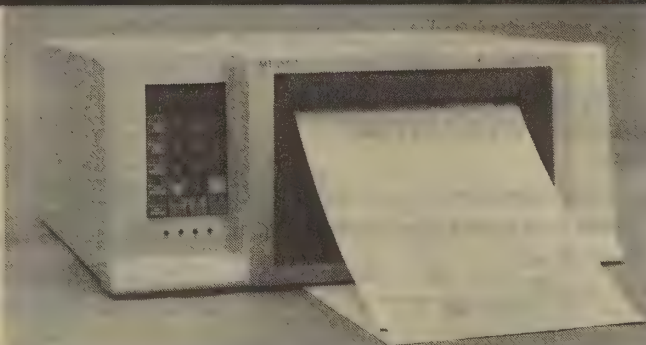
ASTRO-MED INC WEST WARWICK RI ADV PG 383	401-828-4000
B-G INSTRUMENTS INC ALTA LOMA CA ADV PG 367	714-989-4800
OMEGA ENGINEERING INC STAMFORD CT ADV PGS 385, Gatefold	203-359-1660
THORN EMI TECHNOLOGY INC ATLANTA GA ADV PG 251	404-587-0017
Acurex Autodata Mountain View CA	415-964-3000
Amprobe Instrument Div Core Indus Inc Lynbrook NY	516-593-5000
Anasco Corp Wakefield MA	617-246-3000
Astro-Med Inc West Warwick RI	401-828-4000
Bailey Controls Co Wickliffe OH	216-585-8500
Bascam-Turner Instruments Norwood MA	800-225-5000
B-G Instruments Inc Alta Loma CA	714-989-4800
Bristol Babcock Inc Waterbury CT	203-575-3000
Chart Pool USA Portage IN	219-763-1541
Chessell Corp Newtown PA	215-968-0660
Continental Resources Inc Bedford MA	617-275-0300
Datag Instruments Inc Akron OH	216-434-4400
De-Tec-Tronic Corp Elgin IL	312-695-9000
Dianachart Inc Rockaway NJ	201-625-2299
ECO Instruments Div Sea Data Corp Newton MA	617-964-8360
Elnik Instruments Inc Fairfield NJ	201-882-8033
Ensercorp Instruments Ltd Islington ON	416-231-5300
Eurotherm Corp Reston VA	703-471-4870
The Foxboro Co Foxboro MA	617-543-8750
General Scanning Inc Watertown MA	617-924-1000
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Gould Inc Recording Systems Div Cleveland OH	216-361-3315
Gulton Graphic Insts Div East Greenwich RI	401-884-6800
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Honeywell Process Control Div Ft Washington PA	215-641-3000
Honeywell Test Instruments Div Denver CO	303-773-4700
James Electronics Inc Chicago IL	312-463-6800

There's an Astro-Med recorder for every medical, scientific and industrial application.

MT-8500

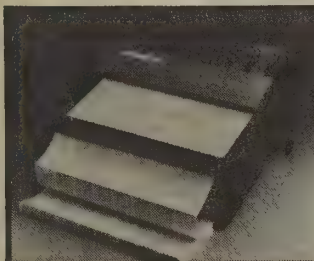
High Frequency Multi-Task Recorder

Astro-Med's MT-8500. The most important innovation in recorder technology in 20 years. Will record 8 analog channels with frequencies to 500 Hz and amplitudes to 200 mm in real time totally flat on low cost thermal paper. Provides alphanumeric printing and graphics, X-Y plotting, and transient waveform capture to 5 KHz. *Channel Expansion* feature permits one or more channels to be enlarged many times to aid in waveform examination.



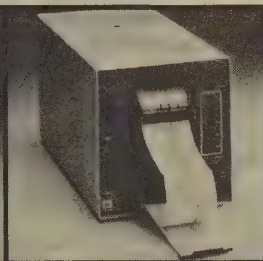
Portable Ready-to-Use Recorders

COMPACT 8-CHANNEL FIELD RECORDER



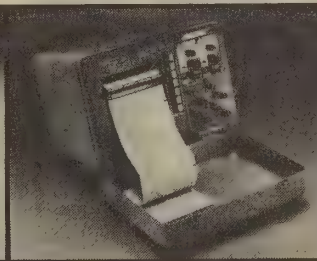
The Dash 8 eight channel field recorder. Trustworthy and accurate under the harshest field conditions. Convenient Z-fold chart paper and superb thermal point writing. 32-speed intelligent chart drive. Typical uses: outdoor testing, process monitoring, etc. Available for operation at 120/220 V 50/60 Hz or 24 VDC.

1-CHANNEL PHYSIOLOGICAL/LAB RECORDER



The Z-1000 1-channel physiological/lab recorder. Superb point writing. Battery/AC power with more than 40 chart speeds. Convenient Z-fold chart presentation. Use it for a wide variety of physiological recording applications.

WORLD'S ONLY TRUE FIELD RECORDER



The Dash II+ 2 channel field recorder. Reliable under the most brutal conditions. Battery and line power. DC to 125 Hz real time; DC to 5 KHz transient capture. Z-fold chart packs and plug-in signal conditioners. Supplied complete with compact, sturdy carrying case. Acknowledged by industry as the standard for field testing.

THE INTELLIGENT 4-CHANNEL RECORDER

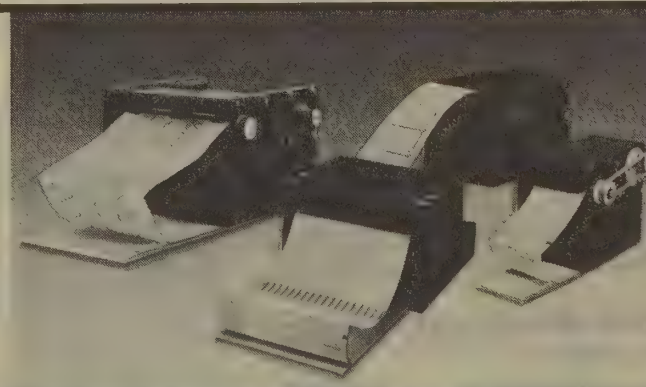


The versatile Dash IV 4-channel recorder. Small and lightweight, but packed with advanced technology. Automatic date, time, and chart speed printing. More than 40 microprocessor-controlled chart speeds. Plug it in and put it to work anywhere.

All Astro-Med recorders feature position feedback galvanometers with more than 99% accuracy, DC to 125 Hz response, and reliable low-cost thermal writing. All Astro-Med recorders are produced at our plant in West Warwick, R.I., U.S.A.

Astro-Graph™ OEM Digital Recorders

From Astro-Med, world's leading designer and manufacturer of OEM recording systems, complete line of direct writing OEM digital recorders utilizing 2", 4" and 8½" wide charts. All models employ 200 dot-per-inch thermal printheads and record on low-cost thermal paper. Complete with electronics and software, the recorders can be readily incorporated into your system. Provide 1 to 30 waveform channels, digital or analog input and instantaneous waveforms, alphanumeric text and graphics. Employ standard off-the-shelf software.



Astro-Med, Inc.

Astro-Med Industrial Park, West Warwick, Rhode Island 02893
Telephone (401) 828-4000 Telex No. 710-382-6409
Phone toll free (800) 343-4039

Kahl Scientific Instrument Corp El Cajon CA.....	619-444-2158
Kent Process Control Inc Edison NJ.....	201-225-1717
Kipp & Zonen Bohemia NY.....	516-589-2885
Leasametric Inc Foster City CA.....	415-574-4441
Leeds & Northrup Instruments	
North Wales PA.....	215-643-2000
Linear Instruments Corp Reno NV.....	702-786-3636
Linseis Inc Princeton Junction NJ.....	800-RECORDER
Macrodyne Inc Schenectady NY.....	518-356-3500
Marel Instrument Co Cape Coral FL.....	813-574-8788
MFE Instruments Corp Salem NH.....	603-893-1921
Omega Engineering Inc Stamford CT.....	203-359-1660
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
PPM Inc Cleveland OH.....	216-292-6006
Sensortek Inc Clifton NJ.....	201-779-5577
Soltec Corp Sun Valley CA.....	818-767-0044
Stoelting Co Chicago IL.....	312-522-4500
Summagraphics Corp Fairfield CT.....	203-384-1344
Thorn EMI Technology Inc Atlanta GA.....	404-587-0017
Western Graphtec Inc Irvine CA.....	714-770-6010
Yokogawa Corp Of America Shenandoah GA.....	404-253-7000

RECORDERS, GRAPHIC—STRIP CHART, ANALOG INPUT, SINGLE OR DUAL CHANNEL

ASTRO-MED INC WEST WARWICK RI.....	401-828-4000
ADV PG 383	
B-G INSTRUMENTS INC ALTA LOMA CA.....	714-989-4802
ADV PG 367	
OMEGA ENGINEERING INC	
STAMFORD CT.....	203-359-1660
ADV PGS 385, Gatefold	
Amprobe Instrument Div Core Indus Inc	
Lynbrook NY.....	516-593-5600
Anasco Corp Wakefield MA.....	617-246-3300
Annis Co R B Indianapolis IN.....	317-637-9282
Astro-Med Inc West Warwick RI.....	401-828-4000
Atomergic Chemetals Corp Plainview NY.....	516-349-8800
Bailey Controls Co Wickliffe OH.....	216-585-8500
B-G Instruments Inc Alta Loma CA.....	714-989-4802
Bristol Babcock Inc Waterbury CT.....	203-575-3000
Bruehl & Kjaer Instruments Inc Marlboro MA.....	617-481-7000
Chart Pool USA Portage IN.....	219-763-1541
Chessell Corp Newtown PA.....	215-968-0660
Continental Resources Inc Bedford MA.....	617-275-0850
Dataq Instruments Inc Akron OH.....	216-434-4284
Dianachart Inc Rockaway NJ.....	201-625-2299
ECO Instruments Div Sea Data Corp	
Newton MA.....	617-964-8360
Electric Tachometer Corp Philadelphia PA.....	215-726-7723
Elmik Instruments Inc Fairfield NJ.....	201-882-8033
Ennercorp Instruments Ltd Islington ON.....	416-231-5335
Forma Scientific Div Mallinckrodt Inc	
Marietta OH.....	614-373-4763
The Foxboro Co Foxboro MA.....	617-543-8750
General Scanning Inc Watertown MA.....	617-924-1010
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Gould Inc Recording Systems Div	
Cleveland OH.....	216-361-3315
Gulton Graphic Insts Div East Greenwich RI.....	401-884-6800
Heath Co Benton Harbor MI.....	616-982-3200
Hewlett-Packard Palo Alto CA.....	415-857-8000
Honeywell Process Control Div	
Ft Washington PA.....	215-641-3000
Honeywell Test Instruments Div Denver CO.....	303-773-4700
Houston Instrument Austin TX.....	512-835-0900
ITT Barton Instruments Co	
City of Industry CA.....	818-961-2547
James Electronics Inc Chicago IL.....	312-463-6500
Kahl Scientific Instrument Corp El Cajon CA.....	619-444-2158
Kent Process Control Inc Edison NJ.....	201-225-1717
Kipp & Zonen Bohemia NY.....	516-589-2885
LDC/Milton Roy Riviera Beach FL.....	305-844-5241
Leasametric Inc Foster City CA.....	415-574-4441
Leeds & Northrup Instruments	
North Wales PA.....	215-643-2000
Leupold & Stevens Inc Beaverton OR.....	503-646-9171
Linear Instruments Corp Reno NV.....	702-786-3636
Linseis Inc Princeton Junction NJ.....	800-RECORDER
Marel Instrument Co Cape Coral FL.....	813-574-8788
MFE Instruments Corp Salem NH.....	603-893-1921
Omega Engineering Inc Stamford CT.....	203-359-1660
Orthodyne Electronics Corp Costa Mesa CA.....	714-631-7800
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
PPM Inc Cleveland OH.....	216-292-6006
Raytheon Ocean Systems Co	
East Providence RI.....	401-438-1780
Sargent-Welch Scientific Co Skokie IL.....	312-677-0600
Sensortek Inc Clifton NJ.....	201-779-5577
Soltec Corp Sun Valley CA.....	818-767-0044
Tensitron Inc Harvard MA.....	617-456-3511
Tracor Inc Austin TX.....	512-929-2051
Webb Co Jervis B Farmington Hills MI.....	313-553-1220
Western Graphtec Inc Irvine CA.....	714-770-6010
Yokogawa Corp Of America Shenandoah GA.....	404-253-7000

RECORDERS, GRAPHIC—STRIP CHART, DIGITAL INPUT

ASTRO-MED INC WEST WARWICK RI.....	401-828-4000
ADV PG 383	
B-G INSTRUMENTS INC ALTA LOMA CA.....	714-989-4802
ADV PG 367	
OMEGA ENGINEERING INC	
STAMFORD CT.....	203-359-1660
ADV PGS 385, Gatefold	
Acurex Autodata Mountain View CA.....	415-964-3200
Astro-Med Inc West Warwick RI.....	401-828-4000
B-G Instruments Inc Alta Loma CA.....	714-989-4802

Bristol Babcock Inc Waterbury CT.....	203-575-3000
Bruehl & Kjaer Instruments Inc Marlboro MA.....	617-481-7000
Continental Resources Inc Bedford MA.....	617-275-0850
Dianachart Inc Rockaway NJ.....	201-625-2299
ECO Instruments Div Sea Data Corp	
Newton MA.....	617-964-8360
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Gould Inc Recording Systems Div	
Cleveland OH.....	216-361-3315
Gulton Graphic Insts Div East Greenwich RI.....	401-884-6800
Hewlett-Packard Palo Alto CA.....	415-857-8000
Houston Instrument Austin TX.....	512-835-0900
ITT Barton Instruments Co	
City of Industry CA.....	818-961-2547
Kipp & Zonen Bohemia NY.....	516-589-2885
Leasametric Inc Foster City CA.....	415-574-4441
Leeds & Northrup Instruments	
North Wales PA.....	215-643-2000
Linseis Inc Princeton Junction NJ.....	800-RECORDER
Nicolet Instrument Corp Oscilloscope Div	
Madison WI.....	608-273-5008
Omega Engineering Inc Stamford CT.....	203-359-1660
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
PPM Inc Cleveland OH.....	216-292-6006
Racal-Dana Instruments Inc Irvine CA.....	714-859-8999
Raytheon Ocean Systems Co	
East Providence RI.....	401-438-1780
Soltec Corp Sun Valley CA.....	818-767-0044
Summagraphics Corp Fairfield CT.....	203-384-1344
Western Graphtec Inc Irvine CA.....	714-770-6010

RECORDERS, GRAPHIC—X-Y COMPUTER PLOTTERS

See Computer Output Plotters

RECORDERS, GRAPHIC—X-Y, GENERAL PURPOSE

See Also Computer Output Plotters

B-G INSTRUMENTS INC ALTA LOMA CA.....	714-989-4802
ADV PG 367	
ENVIROMARINE SYSTEMS INC	
LAUREL MD.....	301-598-8833
OMEGA ENGINEERING INC	
STAMFORD CT.....	203-359-1660
ADV PGS 385, Gatefold	
Acurex Autodata Mountain View CA.....	415-964-3200
Anasco Corp Wakefield MA.....	617-246-3300
Bascom-Turner Instruments Norwood MA.....	800-225-3298
B-G Instruments Inc Alta Loma CA.....	714-989-4802
Bristol Babcock Inc Waterbury CT.....	203-575-3000
Bruehl & Kjaer Instruments Inc Marlboro MA.....	617-481-7000
Continental Resources Inc Bedford MA.....	617-275-0850
Dianachart Inc Rockaway NJ.....	201-625-2299
ECO Instruments Div Sea Data Corp	
Newton MA.....	617-964-8360
Ellox Associates Morris Plains NJ.....	201-299-1615
Enviro Marine Systems Inc Laurel MD.....	301-598-8833
Feedback Inc Berkeley Heights NJ.....	201-464-5181
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000
Gould Inc Recording Systems Div	
Cleveland OH.....	216-361-3315
Gulton Graphic Insts Div East Greenwich RI.....	401-884-6800
Heath Co Benton Harbor MI.....	616-982-3200
Hewlett-Packard Palo Alto CA.....	415-857-8000
Houston Instrument Austin TX.....	512-835-0900
Kipp & Zonen Bohemia NY.....	516-589-2885
Leasametric Inc Foster City CA.....	415-574-4441
Linear Instruments Corp Reno NV.....	702-786-3636
Linseis Inc Princeton Junction NJ.....	800-RECORDER
Nicolet Instrument Corp Oscilloscope Div	
Madison WI.....	608-273-5008
Omega Engineering Inc Stamford CT.....	203-359-1660
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH.....	216-587-3600
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany.....	089-41290
Sargent-Welch Scientific Co Skokie IL.....	312-677-0600
Scan-Graphics Inc Broomall PA.....	215-328-1040
Soltec Corp Sun Valley CA.....	818-767-0044
Summagraphics Corp Fairfield CT.....	203-384-1344
Tektronix Inc Beaverton OR.....	800-547-6711
Western Graphtec Inc Irvine CA.....	714-770-6010
Yokogawa Corp Of America Shenandoah GA.....	404-253-7000

RECORDERS—HUMIDITY

OMEGA ENGINEERING INC	
STAMFORD CT.....	203-359-1660
ADV PG Gatefold	
SUPERIOR ELECTRIC CO THE	
BRISTOL CT.....	203-582-9561
Abbeon Cal Inc Santa Barbara CA.....	805-966-0810
Atkins Technical Inc Gainesville FL.....	904-378-5555
Belfort Instrument Co Baltimore MD.....	301-342-2626
Bristol Babcock Inc Waterbury CT.....	203-575-3000
Chessell Corp Newtown PA.....	215-968-0660
Clean Room Products Inc Ronkonkoma NY.....	516-588-7000
Climatronics Corp Bohemia NY.....	516-567-7300
Dranetz Technologies Inc Edison NJ.....	201-287-3680
EG & G Inc Environmental Equip Div	
Waltham MA.....	617-890-3710
Ennercorp Instruments Ltd Islington ON.....	416-231-5335
The Foxboro Co Foxboro MA.....	617-543-8750
General Eastern Instruments Corp	
Watertown MA.....	617-923-2386
Genstar Rental Electronics Inc	
Woodland Hills CA.....	818-887-4000

Gulton Graphic Insts Div East Greenwich RI.....	401-884-6800
Honeywell Process Control Div	
Ft Washington PA.....	215-641-3000
Hy-Cal Engineering El Monte CA.....	818-444-4400
James Electronics Inc Chicago IL.....	312-463-6500
Kahl Scientific Instrument Corp El Cajon CA.....	619-444-2158
Leasametric Inc Foster City CA.....	415-574-4441
Leeds & Northrup Instruments	
North Wales PA.....	215-643-2000
Linear Instruments Corp Reno NV.....	702-786-3636
Linseis Inc Princeton Junction NJ.....	800-RECORDER
Omega Engineering Inc Stamford CT.....	203-359-1660
Pacer Industries Inc Chippewa Falls WI.....	715-723-1100
Panametrics Inc Process Inst Div	
Waltham MA.....	617-899-2100
Soltec Corp Sun Valley CA.....	818-767-0044
Superior Electric Co The Bristol CT.....	203-582-9561
Thunder Scientific Corp Albuquerque NM.....	505-265-5555

RECORDERS—MAGNETIC (ALL TYPES)

See Magnetic Listings; Recorders—Telephone

RECORDERS—MECHANICAL

OMEGA ENGINEERING INC	
STAMFORD CT.....	203-359-1660
ADV PG Gatefold	
Annis Co R B Indianapolis IN.....	317-637-9282
Bailey Controls Co Wickliffe OH.....	216-585-8500
Bristol Babcock Inc Waterbury CT.....	203-575-3000
Ennercorp Instruments Ltd Islington ON.....	416-231-5335
Kahl Scientific Instrument Corp El Cajon CA.....	619-444-2158
Omega Engineering Inc Stamford CT.....	203-359-1660
Soltec Corp Sun Valley CA.....	818-767-0044
Sycon-Weston Div Sycon Corp Marion OH.....	614-382-5700

RECORDERS—MICROFILM

See Computer Output Microfilm Recorders

RECORDERS—PH

OMEGA ENGINEERING INC	
STAMFORD CT.....	203-359-1660
ADV PG Gatefold	
Analytical Measurements Inc Chatham NJ.....	201-273-7500
Bristol Babcock Inc Waterbury CT.....	203-575-3000
Cambridge Scientific Industries	
Cambridge MD.....	301-228-5100
Chessell Corp Newtown PA.....	215-968-0660
Elmik Instruments Inc Fairfield NJ.....	201-882-8033
Ennercorp Instruments Ltd Islington ON.....	416-231-5335
Eurotherm Corp Reston VA.....	703-471-4400
Fischer & Porter Co Warminster PA.....	215-674-6100
The Foxboro Co Foxboro MA.....	617-543-8750
Gam Rad West Inc Garden Grove CA.....	714-554-0700
Gulton Graphic Insts Div East Greenwich RI.....	401-884-6800
Kent Process Control Inc Edison NJ.....	201-225-1717
Leeds & Northrup Instruments	
North Wales PA.....	215-643-2000
Linear Instruments Corp Reno NV.....	702-786-3636
M-C Products Scottsdale AZ.....	602-998-9100
Omega Engineering Inc Stamford CT.....	203-359-1660
Princo Instruments Inc Southampton PA.....	215-355-1100
RIL Electronics Inc Warrington PA.....	215-343-5100
Soltec Corp Sun Valley CA.....	818-767-0044
Wallace & Tiernan Div Pennwalt Corp	
Belleville NJ.....	201-759-8100

RECORDERS—SMOKE & COMBUSTION

Bailey Controls Co Wickliffe OH.....	216-585-8500
Chessell Corp Newtown PA.....	215-968-0660
De-Tec-Tronic Corp Elgin IL.....	312-695-9100
Honeywell Process Control Div	
Ft Washington PA.....	215-641-3000
Leeds & Northrup Instruments	
North Wales PA.....	215-643-2000
RIL Electronics Inc Warrington PA.....	215-343-5100

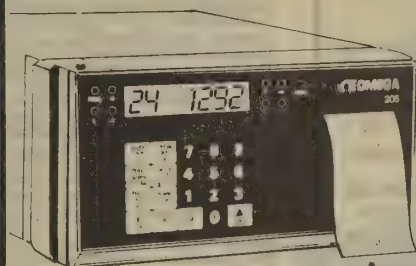
RECORDERS—TELEPHONE

Conversational Voice Technologies Corp	
Gurnee IL.....	312-249-5500
Reproduction Technologies Inc Bristol IN.....	219-848-5200
Stancil Corp Hollywood CA.....	213-464-7400
Tape Concepts Inc Bristol IN.....	219-848-5200
Telestro Systems Corp Corona NY.....	212-651-8800
Telephone Dynamics Corp North Bellmore NY.....	516-221-9600
Veeder-Root Hartford CT.....	203-527-7200

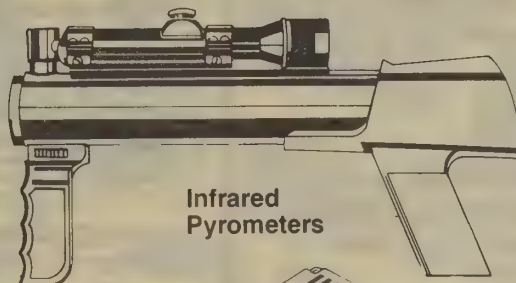
RECORDING CAMERAS

See Cameras

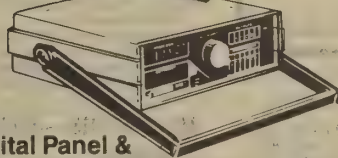
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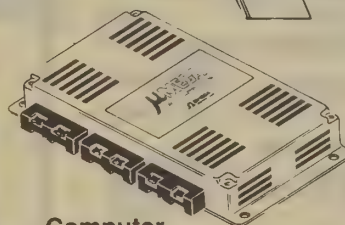
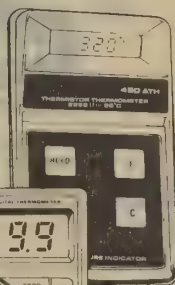
Data
Acquisition



Infrared
Pyrometers



Digital Panel &
Bench Meters for
All Processes

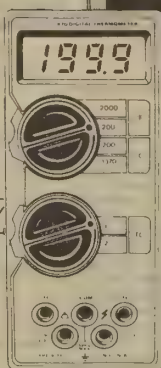


Computer
Interface
Equipment



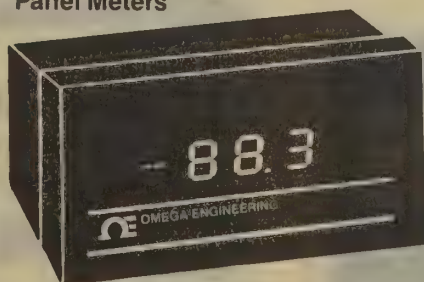
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Thermometers

Custom Hand Held
Probes



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RECORDING DISKS

See Magnetic Disks

RECORDING OSCILLOGRAPHS

See Oscillographs

RECORDING PAPER

See Facsimile Equipment; Graph Paper; Paper
Tapes

RECORDING TAPES—MAGNETIC

See Magnetic Tapes

RECORDING WIRE

See Magnetic Wire

RECORD PLAYERS & EQUIPMENT

See Phonograph Equipment

RECTIFIER DIODES

See Diodes—Rectifier

RECTIFIERS—COPPER-OXIDE

EDAL INDUSTRIES INC EAST HAVEN CT..... 203-467-2591
ADV PG 388
Edal Industries Inc East Haven CT..... 203-467-2591

RECTIFIERS—GERMANIUM DIODE

AEG CORPORATION SOMERVILLE NJ..... 201-722-9800
AMERICAN MICROSEMICONDUCTOR INC
MADISON NJ..... 201-377-9566
ADV PG 162
INTERNATIONAL COMPONENTS CORP
MELVILLE NY..... 516-293-1500
PHILIPS ECG INC WALTHAM MA..... 617-890-6107
SHOKAI FAR EAST LTD HARTSDALE NY..... 914-681-0700
AEG Corporation Somerville NJ..... 201-722-9800
American Microsemiconductor Inc
Madison NJ..... 201-377-9566
Argent Industries Inc Englewood OH..... 513-836-8633
General Diode Corp Framingham MA..... 617-879-0880
Germanium Power Devices Corp Andover MA..... 617-475-5982
International Components Corp Melville NY..... 516-293-1500
Lectron Industries Inc Roselle NJ..... 201-245-5858
NTE Electronics Inc Bloomfield NJ..... 201-748-5089
Panasonic Co Electronic Components Div
Secaucus NJ..... 201-348-5200
Philips ECG Inc Waltham MA..... 617-890-6107
Semiconductor Products Inc Lawrence MA..... 617-686-0197
Shokai Far East Ltd Hartsdale NY..... 914-681-0700
Stetron International Inc Buffalo NY..... 716-854-3443
Workman Electronic Products Inc
Sarasota FL..... 800-237-6666

RECTIFIERS—SELENIUM STACKS

AMERICAN MICROSEMICONDUCTOR INC
MADISON NJ..... 201-377-9566
ADV PG 162
EDAL INDUSTRIES INC EAST HAVEN CT..... 203-467-2591
ADV PG 388
INTERNATIONAL RECTIFIER SEMICONDUCTOR DIV
EL SEGUNDO CA..... 213-772-2000
ADV PG 386
SHOKAI FAR EAST LTD HARTSDALE NY..... 914-681-0700

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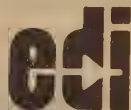
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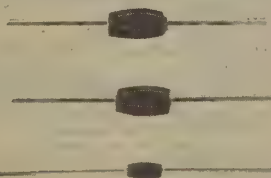
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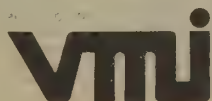
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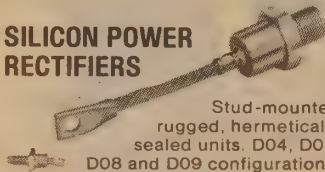
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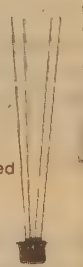
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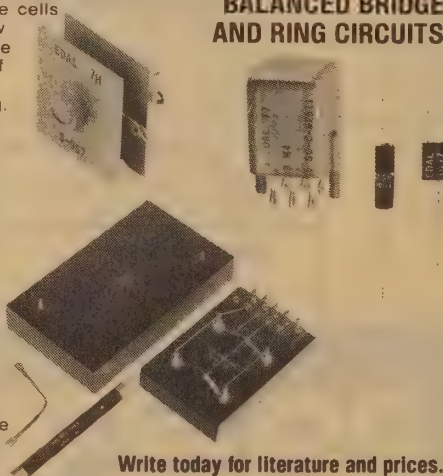
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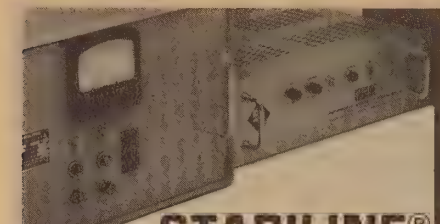
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Deltion Inc North Wales PA.....	215-699-9261
Electronic Research Assocs Inc	
Moonachie NJ.....	201-641-3650
Electro-Pacific Inc Goleta CA.....	805-964-4878
Elgar Corp an Onan Operating Unit	
San Diego CA.....	619-450-0085
Flight Systems Mechanicsburg PA.....	717-697-0333
John Franek Co Inc Irvine CA.....	714-261-5377
General Magnetics Inc Bloomfield NJ.....	201-743-2700
Gentron Corp Milwaukee WI.....	414-351-1660
Georator Corp Manassas VA.....	703-368-2101
Gulton Industries Inc Engrd Magnetics Div	
Hawthorne CA.....	213-679-0111
Hammond Mfg Co Inc Buffalo NY.....	716-894-5710
Hipotronics Inc Brewster NY.....	914-279-8091
Hitrar Corp Flemington NJ.....	201-782-5525
Industrial Test Equipment Powertron	
Port Washington NY.....	516-883-1700
Interelectronics Corp Congers NY.....	914-358-8000
Isoreg Corp Littleton MA.....	617-486-9483
Jefferson Electric Co Bellwood IL.....	312-626-7700
Lakontek Inc South Plainfield NJ.....	201-755-7680
LEA Dynatech Inc Santa Fe Springs CA.....	213-944-0916
LorTec Power Systems Inc Elyria OH.....	216-327-5050
Megatran Electronic Power Bordentown NJ.....	609-298-7300
Merrimack Magnetics Corp Lowell MA.....	617-458-1487
Micron Industries Corp Stone Park IL.....	312-345-0788
Northlake Engineering Inc Antioch IL.....	312-395-5710
NWL Transformers Bordentown NJ.....	609-298-7300
Oneac Corp Bannockburn IL.....	312-295-2800
Parko Electronics Co Inc Irvine CA.....	714-660-8014
Perma Power Electronics Inc Chicago IL.....	312-647-9414
Power Components Co Gardena CA.....	213-323-8120
Powermark San Diego CA.....	619-565-8363
Power-Matic Inc San Diego CA.....	619-292-4422
Precision Electronics Inc Copiague NY.....	516-842-4900
Rapid Electric Co Inc Brookfield CT.....	800-332-1111
Raytheon Semiconductor Div	
Mountain View CA.....	415-968-9211
Robicon Corp Pittsburgh PA.....	412-327-7000
RTE Deltac Corp San Diego CA.....	619-291-4211
Sager Hingham MA.....	617-749-6700
S K G Associates Inc Norwell MA.....	617-878-7250
Sola Electric A Unit Of Gen Signal	
Elk Grove Village IL.....	312-439-2800
Sorensen Co A Unit of Raytheon Co	
Manchester NH.....	603-668-4500
Staco Energy Products Co Dayton OH.....	513-253-1191
Superior Electric Co The Bristol CT.....	203-582-9561
Technipower A Penril Co Danbury CT.....	203-748-7001
Topaz Inc San Diego CA.....	619-569-7982
Triad-Utrad Huntington IN.....	219-356-6500
Uarco Inc Barrington IL.....	312-381-7000
Ulveco Electronics Inc Foster City CA.....	415-574-1100

REGULATORS, VOLTAGE—D-C (EXCEPT IC DEVICES)

INTERELECTRONICS CORP CONGERS NY.....	914-358-8000
KEPCO INC FLUSHING NY.....	718-461-7000
UNITRODE CORP LEXINGTON MA.....	617-861-6540
AAK Corp Haverhill MA.....	617-373-3769
Acme Electric Corp Olean NY.....	716-968-2400
Adtech Power Inc Anaheim CA.....	714-634-9211
Aerospace Avionics Inc Bohemia NY.....	516-467-5500
Amperite Co Inc Union City NJ.....	201-864-9503
Applied Electro Technology Int Santa Ana CA.....	714-556-6570
Autronics Corp Arcadia CA.....	818-445-5470
Aydin Radar & EW Div San Jose CA.....	408-629-1100
Aydin Vector Div Newton MA.....	215-968-4271
Beckman Industrial Corp Brea CA.....	714-871-4848
Bendix Electric Power Div Eatontown NJ.....	201-542-2000
CELCO (Constantine Engineering Labs Co)	
Mahwah NJ.....	201-327-1123
Datatran Labs Inc Sussex NJ.....	914-856-4313
Deltion Inc North Wales PA.....	215-699-9261
DNH Industries Inc Torrance CA.....	213-328-0750
EG & G Almond Instruments Covina CA.....	818-967-9521
Electronic Research Assocs Inc	
Moonachie NJ.....	201-641-3650
Electro-Pacific Inc Goleta CA.....	805-964-4878
Flight Systems Mechanicsburg PA.....	717-697-0333
Gulton Industries Inc Engrd Magnetics Div	
Hawthorne CA.....	213-679-0111
Hitrar Corp Flemington NJ.....	201-782-5525
Interelectronics Corp Congers NY.....	914-358-8000
Kepeco Inc Flushing NY.....	718-461-7000
Lambda Electronics Melville NY.....	516-694-4200
Magnum Opus Custom Electronic Engrg	
Iselin NJ.....	201-283-4925
Megatran Electronic Power Bordentown NJ.....	609-298-7300
Micropac Ind Inc Garland TX.....	214-272-3571
Mid-Eastern Industries Inc Mt Holly NJ.....	609-267-3811
NWL Transformers Bordentown NJ.....	609-298-7300
Parko Electronics Co Inc Irvine CA.....	714-660-8014
Powertec Inc Chatsworth CA.....	818-882-0004
Precision Electronics Inc Copiague NY.....	516-842-4900
S K G Associates Inc Norwell MA.....	617-878-7250
Staco Energy Products Co Dayton OH.....	513-253-1191
Stone Safety Corp Wallingford CT.....	203-265-7131
Textel Semiconductors Allen TX.....	214-727-1111
Todd Products Corp Brentwood NY.....	516-231-3366
Trio Laboratories Inc Plainville NY.....	516-349-0400
Unitrode Corp Lexington MA.....	617-861-6540
Varo Inc Power Systems Div Garland TX.....	214-840-5000
Victoreen Inc Cleveland OH.....	216-795-8200
Xentek Inc Vista CA.....	619-727-0940

RELAY PARTS

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See Racks; Panels

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ADV PG 393	
MAGNECRAFT ELECTRIC CO	
NORTHBROOK IL.....	312-564-8800
ADV PG 391	
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ADV PGS Green Pages/Footstrips	
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Communications Instruments Inc Fairview NC.....	704-628-1700
Computer Components Inc Pelham NY.....	914-738-1600
Cosar Corp Garland TX.....	214-276-9400
Coto Corp Providence RI.....	401-943-2600
Daico Industries Inc Compton CA.....	213-631-1100
Dow-Key Microwave Corp Carpinteria CA.....	805-684-0400
E-H Electronics Inc Fremont CA.....	415-651-2300
Elec Spec Corp Vancouver WA.....	206-574-5000
Electronic Equipment Co Ltd Hempstead NY.....	516-538-5500
Fifth Dimension Inc Trenton NJ.....	609-393-8300
Genicom Corp Waynesboro VA.....	703-949-1000
HIG Co Inc Hartford CT.....	203-522-8600
Jennings Div FL Industries San Jose CA.....	408-292-4000
Kings Electronics Co Inc Tuckahoe NY.....	914-793-5000
Magnecraft Electric Co Northbrook IL.....	312-564-8800
Marlee Switch Co Upland CA.....	714-982-8900
Master Electronic Controls Los Angeles CA.....	213-452-1300
Matrix Systems Corp Calabasas CA.....	818-992-6700
Peerless Radio Corp Lynbrook NY.....	516-593-2100
Racal-Dana Instruments Inc Irvine CA.....	714-859-8900
Reliance Electric Co Cleveland OH.....	800-245-4400
RLC Electronics Inc Mt Kisco NY.....	914-241-1300
Transco Products Inc Camarillo CA.....	805-987-2200
Universal Relay Corp New York NY.....	212-925-6900

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AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AROMAT CORP MOUNTAINSIDE NJ.....	201-232-4200
ADV PG 391	
CLARE DIV GENERAL INSTRUMENT CORP	
CHICAGO IL.....	312-262-7700
ADV PG 397	
ELECTRIC SWITCHES INC	
LOS ANGELES CA.....	213-660-1300
ADV PGS 434, 435	
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY.....	516-538-5500
ADV PG 393	
FUJITSU COMPONENTS OF AMERICA INC	
SANTA CLARA CA.....	408-727-1700
ADV PG 395	
HASCO COMPONENTS INC	
BELLROSE VILLAGE NY.....	516-328-9200
ADV PG 392	
ITT COMPONENTS DIV SANTA ANA CA.....	714-836-0300
ADV PG 392	
MAGNECRAFT ELECTRIC CO	
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ADV PG 399	
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Aromat Corp Mountainside NJ.....	201-232-4200
Babcock Inc Orange CA.....	714-633-3700
Bloxxom Corp Wheeling IL.....	312-520-8000
Branson Corp Newton NJ.....	201-383-3100
Clare Div General Instrument Corp Chicago IL.....	312-262-7700
Communications Instruments Inc Fairview NC.....	704-628-1700
Computer Components Inc Pelham NY.....	914-738-1600
Cosar Corp Garland TX.....	214-276-9400
Coto Corp Providence RI.....	401-943-2600
Douglas Randall Div Pawcatuck CT.....	203-599-2000
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI.....	414-449-6000
Elec Spec Corp Vancouver WA.....	206-574-5000
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Electro National Corp Canton MS.....	601-859-5500
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Gordos Corp Bloomfield NJ.....	201-743-6800
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HIG Co Inc Hartford CT.....	203-522-8600
Information Transfer Industrial Inc	
Holcomb NY.....	716-657-7000
ITT Components Div Santa Ana CA.....	714-836-0300
Jaico Products Jaidinger Mfg Co Chicago IL.....	312-421-1000
Leach Corp Relay Div Los Angeles CA.....	213-232-8200
Magnecraft Electric Co Northbrook IL.....	312-564-8800
Mallory Timers Co Indianapolis IN.....	317-636-5300
Marlee Switch Co Upland CA.....	714-982-8900

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California Instruments San Diego CA.....	619-279-8620
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Electronic Research Assocs Inc	
Moonachie NJ.....	201-641-3650
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Georator Corp Manassas VA.....	703-368-2101
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Pacific Power Source Corp	
Huntington Beach CA.....	714-898-2691
Power Control Corp Pittsburgh PA.....	412-782-3120
Powermark San Diego CA.....	619-565-8363
Precision Electronics Inc Copiague NY.....	516-842-4900
Robicon Corp Pittsburgh PA.....	412-327-7000

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ABACUS CONTROLS INC SOMERVILLE NJ.....	201-526-6010
ADV PG 336	
CML MACARR DIV BROOKLYN NY.....	718-857-2400
ELGAR CORP AN ONAN OPERATING UNIT	
SAN DIEGO CA.....	619-450-0085
ADV PG 337	
JOHN FRANKE CO INC IRVINE CA.....	714-261-5377
GEORATOR CORP MANASSAS VA.....	703-368-2101
HIPOTRONICS INC BREWSTER NY.....	914-279-8091
INTERELECTRONICS CORP CONGERS NY.....	914-358-8000
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
SUPERIOR ELECTRIC CO THE	
BRISTOL CT.....	203-582-9561
ADV PG 390	
TECHNIPOWER A PENRIL CO	
DANBURY CT.....	203-748-7001
ULVECO ELECTRONICS INC	
FOSTER CITY CA.....	415-574-1100
ADV PG 354	
Abacus Controls Inc Somerville NJ.....	201-526-6010
Acme Electric Corp Olean NY.....	716-968-2400
Adtech Power Inc Anaheim CA.....	714-634-9211
Aerospace Avionics Inc Bohemia NY.....	516-467-5500
American HV Test Systems Inc Accident MD.....	301-826-8651
Amperite Co Inc Union City NJ.....	201-864-9503
Applied Electro Technology Int Santa Ana CA.....	714-556-6570
Aydin Radar & EW Div San Jose CA.....	408-629-1100
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Computer Power Inc High Bridge NJ.....	201-638-8000

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uthers-Dunn Inc Pitman NJ.....	609-589-7500
ar Inc Wilton CT.....	203-834-8227
edynne Relays Hawthorne CA.....	213-777-0077
ermosen Inc Stamford CT.....	203-324-6125
omson CSF Inc White Plains NY.....	914-694-4450
imax Div Trush Cazenovia NY.....	315-655-3551
ridge Corp Leesburg FL.....	904-728-0799
iversal Relay Corp New York NY.....	212-925-6900
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Southwest Sales Office
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Tel: (714) 895-7707

Canada
Aromat Canada Inc
919 Kamato Road
Mississauga, Ontario
Canada L4W 2R5
Tel: (416) 624-3777

RELAYS—ELECTROMAGNETIC, HIGH SPEED

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AROMAT CORP MOUNTAINSIDE NJ.....	201-232-4260
ADV PG 391	
ARE DIV GENERAL INSTRUMENT CORP CHICAGO IL.....	312-262-7700
ADV PG 397	
ELECTRIC SWITCHES INC LOS ANGELES CA.....	213-660-1310
ADV PGS 434, 435	
ELECTRONIC EQUIPMENT CO LTD HEMPSTEAD NY.....	516-538-5510
ADV PG 393	
HASCO COMPONENTS INC BELLROSE VILLAGE NY.....	516-328-9292
ADV PG 392	
MAGNECRAFT ELECTRIC CO NORTHBROOK IL.....	312-564-8800
ADV PG 391	
PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
SOLID STATE ELECTRONICS CORP NORTHBRIDGE CA.....	818-993-8257
LEDYNE RELAYS HAWTHORNE CA.....	213-777-0077
ADV PG 399	
AG Corporation Somerville NJ.....	201-722-9800
Airfax Corp Frederick Div Frederick MD.....	301-663-5141
American Solenoid Co Inc Somerset NJ.....	201-560-1240
Aromat Corp Mountainside NJ.....	201-232-4260
Automatic Switch Co Florham Park NJ.....	201-966-2000
Bloxcom Corp Wheeling IL.....	312-520-8010
Clare Div General Instrument Corp Chicago IL.....	312-262-7700
Coto Corp Garland TX.....	214-276-9487
Coto Corp Providence RI.....	401-943-2686
Douglas Randall Div Pawcatuck CT.....	203-599-2075
Electric Switches Inc Los Angeles CA.....	213-660-1310
Electro National Corp Canton MS.....	601-859-5511
Electronic Equipment Co Ltd Hempstead NY.....	516-538-5510
Emicom Corp Waynesboro VA.....	703-949-1000
Gordos Corp Bloomfield NJ.....	201-743-6800
Hasco Components Inc Bellrose Village NY.....	516-328-9292
3 Co Inc Hartford CT.....	203-522-8600
Interconnect Devices Inc Kansas City KS.....	913-342-5544
Jaico Products Jaidinger Mfg Co Chicago IL.....	312-421-1090
Jennings Div FL Industries San Jose CA.....	408-292-4025
Kilovac Corp Santa Barbara CA.....	805-684-4560
Leach Corp Relay Div Los Angeles CA.....	213-232-8221
Magnecraft Electric Co Northbrook IL.....	312-564-8800
Merite Switch Co Upland CA.....	714-982-8988
Master Electronic Controls Los Angeles CA.....	213-452-1336
Matrix Systems Corp Calabasas CA.....	818-992-6776
Niron Electronics Inc Schaumburg IL.....	312-843-7900
Original Electric Mfg Co Inc Middlesex NJ.....	201-271-5770
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN.....	212-386-1000
Relays Inc New York NY.....	212-873-4500
Ross Engineering Corp Campbell CA.....	408-377-4621
Schrack North America Inc Elmsford NY.....	914-592-1305
Square D Co Palatine IL.....	312-397-2600
Stetron International Inc Buffalo NY.....	716-854-3443
Struthers-Dunn Inc Pitman NJ.....	609-589-7500
Universal Relay Corp New York NY.....	212-925-6900
Wabash Relay & Electronics Div Wabash IN.....	219-563-2191
Ward Leonard Electric Co Mt Vernon NY.....	914-664-1000

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AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
CLARE DIV GENERAL INSTRUMENT CORP CHICAGO IL.....	312-262-7700
ADV PG 397	
ELECTRONIC EQUIPMENT CO LTD HEMPSTEAD NY.....	516-538-5510
ADV PG 393	
HASCO COMPONENTS INC BELLROSE VILLAGE NY.....	516-328-9292
ADV PG 392	
MAGNECRAFT ELECTRIC CO NORTHBROOK IL.....	312-564-8800
ADV PG 391	
PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
AEG Corporation Somerville NJ.....	201-722-9800
Airfax Corp Frederick Div Frederick MD.....	301-663-5141
Automatic Switch Co Florham Park NJ.....	201-966-2000
Bloxcom Corp Wheeling IL.....	312-520-8010
Clare Div General Instrument Corp Chicago IL.....	312-262-7700
Coto Corp Providence RI.....	401-943-2686
Douglas Randall Div Pawcatuck CT.....	203-599-2075
Dow-Key Microwave Corp Carpinteria CA.....	805-684-0427
Durakool Inc Elkhart IN.....	219-264-1116
Electro National Corp Canton MS.....	601-859-5511
Electronic Equipment Co Ltd Hempstead NY.....	516-538-5510
Gordos Corp Bloomfield NJ.....	201-743-6800
Hasco Components Inc Bellrose Village NY.....	516-328-9292
Histar Corp New York NY.....	212-679-2706
Interconnect Devices Inc Kansas City KS.....	913-342-5544
Jennings Div FL Industries San Jose CA.....	408-292-4025
Kilovac Corp Santa Barbara CA.....	805-684-4560
Leach Corp Relay Div Los Angeles CA.....	213-232-8221
Liberty Controls Inc Shorewood IL.....	815-725-2241
Magnecraft Electric Co Northbrook IL.....	312-564-8800
Master Electronic Controls Los Angeles CA.....	213-452-1336
Omron Electronics Inc Schaumburg IL.....	312-843-7900
Original Electric Mfg Co Inc Middlesex NJ.....	201-271-5770
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN.....	212-386-1000
Relays Inc New York NY.....	212-873-4500
Ross Engineering Corp Campbell CA.....	408-377-4621
Schrack North America Inc Elmsford NY.....	914-592-1305
Square D Co Palatine IL.....	312-397-2600
Stetron International Inc Buffalo NY.....	716-854-3443
Struthers-Dunn Inc Pitman NJ.....	609-589-7500
Universal Relay Corp New York NY.....	212-925-6900
Wabash Relay & Electronics Div Wabash IN.....	219-563-2191
Ward Leonard Electric Co Mt Vernon NY.....	914-664-1000

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AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AROMAT CORP MOUNTAINSIDE NJ.....	201-232-4260
ADV PG 391	
ELECTRIC SWITCHES INC LOS ANGELES CA.....	213-660-1310
ADV PGS 434, 435	
ELECTRONIC EQUIPMENT CO LTD HEMPSTEAD NY.....	516-538-5510
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PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
SOLID STATE ELECTRONICS CORP NORTHBRIDGE CA.....	818-993-8257
AEG Corporation Somerville NJ.....	201-722-9800
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Crompton Instruments Inc Elk Grove Village IL.....	312-593-1107
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Electric Switches Inc Los Angeles CA.....	213-660-1310
Electronic Equipment Co Ltd Hempstead NY.....	516-538-5510
Information Transfer Industrial Inc Holcomb NY.....	716-657-7074
Jaico Products Jaidinger Mfg Co Chicago IL.....	312-421-1090
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Midland-Ross Corp Midtex Div North Mankato MN.....	507-625-6521
Original Electric Mfg Co Inc Middlesex NJ.....	201-271-5770
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Potter & Brumfield Div AMF Inc Princeton IN.....	212-386-1000
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RLC Electronics Inc Mt Kisco NY.....	914-241-1334
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Fax # 516-326-9125

EXCLUSIVE AGENT FOR

REED SWITCHES IN USA AND CANADA

RELAYS—ELECTROMECHANICAL

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ALCO ELECTRONIC PRODUCTS INC	
NORTH ANDOVER MA	617-685-4371
ALMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
AROMAT CORP MOUNTAINSIDE NJ	201-232-4260
ADV PG 391	
CLARE DIV GENERAL INSTRUMENT CORP	
CHICAGO IL	312-262-7700
ADV PG 397	
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434,435	
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
ADV PG 393	
FUJITSU COMPONENTS OF AMERICA INC	
SANTA CLARA CA	408-727-1700
ADV PG 395	
HASCO COMPONENTS INC	
BELLROSE VILLAGE NY	516-328-9292
ADV PG 392	
ISKRA ELECTRONICS INC	
FARMINGDALE NY	516-753-0400
ITT COMPONENTS DIV SANTA ANA CA	714-836-0351
ADV PG 392	
KIN-TRONICS INC YONKERS NY	914-968-7736
ADV PGS See Ads In Green Pages	
MAGNECRAFT ELECTRIC CO	
NORTHBROOK IL	312-564-8800
ADV PG 391	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
PHILIPS ECG INC WALTHAM MA	617-890-6107
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
TELEDYNE RELAYS HAWTHORNE CA	213-777-0077
ADV PG 399	

Advanced Components Industries Inc	
El Segundo CA	213-322-4249
AEG Corporation Somerville NJ	201-722-9800
Air-O-Tronics Div Trush Inc Cazenovia NY	315-655-2387
Airpax Corp Frederick Div Frederick MD	301-663-5141
Alco Electronic Products Inc	
North Andover MA	617-685-4371
Almo Electronics Inc Philadelphia PA	215-698-4000
Amerace Corp Hackettstown NJ	201-852-1122
American Solenoid Co Inc Somerset NJ	201-560-1240
American Zettler Inc Irvine CA	714-660-1670
Aromat Corp Mountainside NJ	201-232-4260
Automatic Switch Co Florham Park NJ	201-966-2000
Babcock Inc Orange CA	714-633-3700
Bloxcom Corp Wheeling IL	312-520-8010
Bosch Corp Robert Automotive Group	
Broadview IL	312-865-5459
Branson Corp Newton NJ	201-383-3132
Clare Div General Instrument Corp Chicago IL	312-262-7700
Communications Instruments Inc Fairview NC	704-628-1711
Computer Components Inc Pelham NY	914-738-1611
Cooper Industries Arrow Hart Hartford CT	203-249-8471
Cornell-Dubilier Electronics Wayne NJ	201-256-2000
Cosar Corp Garland TX	214-276-9487
Crouse-Hinds Co Syracuse NY	315-477-7000
Eagle Signal Controls Div Wickes Mfg Co	
Austin TX	512-837-8300
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Elec Spec Corp Vancouver WA	206-574-5000
Electric Switches Inc Los Angeles CA	213-660-1310
Electromatic Controls Corp	
Hoffman Estates IL	312-882-5757
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Electroswitch Weymouth MA	617-335-5200
Erni Components Corp Richmond VA	804-794-6367
Fifth Dimension Inc Trenton NJ	609-393-8350
Fujitsu Component of America Inc	
Lake Bluff IL	312-295-2610
Fujitsu Components of America Inc	
Santa Clara CA	408-727-1700
Furnas Electric Co Batavia IL	312-879-6000
Genicom Corp Waynesboro VA	703-949-1000
Gordos Corp Bloomfield NJ	201-743-6800
GTE Lighting Products Danvers MA	617-777-1900
GTE Sylvania Control Devices Standish ME	207-642-4535
Hasco Components Inc Bellrose Village NY	516-328-9292
HIG Co Inc Hartford CT	203-522-8600
Histar Corp New York NY	212-679-2706
Idec Izumi Corp Osaka Japan	81-6-2005530
IDEC Systems & Controls Corp	
Santa Clara CA	408-988-7500
Inmark Corp Norwalk CT	203-866-8474
Interconnect Devices Inc Kansas City KS	913-342-5544
ISKRA Electronics Inc Farmingdale NY	516-753-0400
ITT Components Div Santa Ana CA	714-836-0351
Jaico Products Jalding Mfg Co Chicago IL	312-421-1090
Jennings Div FL Industries San Jose CA	408-292-4025
Kilovac Corp Santa Barbara CA	805-684-4560
Kin-Tronics Inc Yonkers NY	914-968-7736
Landmark Electronics Ltd Plainville NY	516-293-7441
Leach Corp Relay Div Los Angeles CA	213-232-8221
Leviton Mfg Co Inc Little Neck NY	212-229-4040
Liberty Controls Inc Shorewood IL	815-725-2241
Magnecraft Electric Co Northbrook IL	312-564-8800
Malory Timers Co Indianapolis IN	317-636-5353
Master Electronic Controls Los Angeles CA	213-452-1336
Midland-Ross Corp Midtex Div	
North Mankato MN	507-625-6521
Mountain West Alarm Supply Co Phoenix AZ	602-263-8831
Oak Switch Systems Inc Crystal Lake IL	815-459-5000
Olympic Controls Corp Elgin IL	312-742-3566

Omega Engineering Inc Stamford CT	203-359-1660
Omrion Electronics Inc Schaumburg IL	312-843-7900
Original Electric Mfg Co Inc Middlesex NJ	201-271-5700
Peerless Radio Corp Lynbrook NY	516-593-2121
Philips ECG Inc Waltham MA	617-890-6107
Phonix Terminal Blocks Inc Harrisburg PA	717-944-1300
Potter & Brumfield Div AMF Inc Princeton IN	812-386-1000
Relays Inc New York NY	212-873-4500
RLC Electronics Inc Mt Kisco NY	914-241-1300
Ross Engineering Corp Campbell CA	408-377-4600
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Solid State Electronics Corp Northridge CA	818-993-8257
Square D Co Palatine IL	312-397-2600
Stancor Products/Hamilton Standard Controls	
Logansport IN	219-722-1000
Stantel Components Corp Schaumburg IL	312-490-7100
Stetron International Inc Buffalo NY	716-854-3400
Struthers-Dunn Inc Pitman NJ	609-589-7500
Syracuse Electronics Syracuse NY	315-488-4900
T-Bar Inc Wilton CT	203-834-8200
Teledyne Relays Hawthorne CA	213-777-0000
Telemecanique Inc Plantsville CT	203-621-6700
Thermosen Inc Stamford CT	203-324-6100
Thomson CSF Inc White Plains NY	914-694-4400
Touch-Plate International Inc Paramount CA	213-636-8100
Trimax Div Trush Cazenovia NY	315-655-3500
U S Controls Corp New Berlin WI	414-782-0300
Universal Relay Corp New York NY	212-925-6900
Vanguard Relay Corp Warwick RI	401-732-0700
Vapor Corp Chicago IL	312-631-9200
Ward Leonard Electric Co Mt Vernon NY	914-664-1000

RELAYS—FREQUENCY SELECTIVE (AUDIO TONE-OPERATED)

ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
ADV PG 393	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
Douglas Randall Div Pawcatuck CT	203-599-2000
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Histar Corp New York NY	212-679-2700
Magnum Opus Custom Electronic Engrg	
Iselin NJ	201-283-4900
Master Electronic Controls Los Angeles CA	213-452-1300
Peerless Radio Corp Lynbrook NY	516-593-2121
Protech Audio Corp St James NY	516-584-5800
Solid State Electronics Corp Northridge CA	818-993-8257

RELAYS—GENERAL PURPOSE

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ALMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
AROMAT CORP MOUNTAINSIDE NJ	201-232-4260
ADV PG 391	
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434,435	
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
ADV PG 393	
FUJITSU COMPONENTS OF AMERICA INC	
SANTA CLARA CA	408-727-1700
ADV PG 395	
HASCO COMPONENTS INC	
BELLROSE VILLAGE NY	516-328-9292
ADV PG 392	
ISKRA ELECTRONICS INC	
FARMINGDALE NY	516-753-0400
ITT COMPONENTS DIV SANTA ANA CA	714-836-0351
ADV PG 392	
MAGNECRAFT ELECTRIC CO	
NORTHBROOK IL	312-564-8800
ADV PG 391	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
PHILIPS ECG INC WALTHAM MA	617-890-6107
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TELEDYNE RELAYS HAWTHORNE CA	213-777-0077
ADV PG 399	
Advanced Components Industries Inc	
El Segundo CA	213-322-4249
AEG Corporation Somerville NJ	201-722-9800
Airpax Corp Frederick Div Frederick MD	301-663-5141
Almo Electronics Inc Philadelphia PA	215-698-4000
Amerace Corp Hackettstown NJ	201-852-1122
American Zettler Inc Irvine CA	714-660-1670
Aromat Corp Mountainside NJ	201-232-4260
Bloxcom Corp Wheeling IL	312-520-8010
Communications Instruments Inc Fairview NC	704-628-1711
Cooper Industries Arrow Hart Hartford CT	203-249-8471
Cornell-Dubilier Electronics Wayne NJ	201-256-2000
Deltrol Controls Div Deltrol Corp	
Milwaukee WI	414-671-6600
Eagle Signal Controls Div Wickes Mfg Co	
Austin TX	512-837-8300
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Electric Switches Inc Los Angeles CA	213-660-1310
Electro National Corp Canton MS	601-859-5500
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Fujitsu Component of America Inc	
Lake Bluff IL	312-295-2610
Fujitsu Components of America Inc	
Santa Clara CA	408-727-1700
GC Electronics Div Household Intl	
Rockford IL	815-968-9600

Genicom Corp Waynesboro VA	703-949-1000
Genicom Electric Mfg Co Chicago IL	312-243-1100
Hasco Components Inc Bellrose Village NY	516-328-9292
Star Corp New York NY	212-679-2706
Izumi Corp Osaka Japan	81-6-2005530
EC Systems & Controls Corp	
Santa Clara CA	408-988-7500
Mark Corp Norwalk CT	203-866-8474
erconnect Devices Inc Kansas City KS	913-342-5544
KRA Electronics Inc Farmingdale NY	516-753-0400
7 Components Div Santa Ana CA	714-836-0351
nnings Div FL Industries San Jose CA	408-292-4025
tron Products Inc East Hanover NJ	201-887-0571
ckner-Moeller Natick MA	617-655-1910
ndmark Relay Div Plainview NY	516-293-7441
ach Corp Relay Div Los Angeles CA	213-232-8221
acromatic Inc Chicago IL	312-286-7977
agnecraft Electric Co Northbrook IL	312-564-8800
allory Timers Co Indianapolis IN	317-636-5353
aster Electronic Controls Los Angeles CA	213-452-1336
Midland-Ross Corp Midtex Div	
North Mankato MN	507-625-6521
Omega Engineering Inc Stamford CT	203-359-1660
Peerless Radio Corp Lynbrook NY	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN	812-386-1000
Projects Unlimited Inc Dayton OH	513-890-1918
Struthers-Dunn Inc Pitman NJ	609-589-7500
T-Bar Inc Wilton CT	203-834-8227
Teledyne Microelectronics Los Angeles CA	213-870-9831
Teledyne Relays Hawthorne CA	213-777-0077
Theta-J Corp Wakefield MA	617-246-4000
Vanguard Relay Corp Warwick RI	401-732-0700

Continental Industries Inc Mesa AZ	602-985-7800
Electronic Controls Corp	
Hoffman Estates IL	312-882-5757
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Electronic Instrument & Specialty Corp	
Stoneham MA	617-438-5300
Fifth Dimension Inc Trenton NJ	609-393-8350
Genicom Corp Waynesboro VA	703-949-1000
Gordos Arkansas Inc Rogers AR	501-636-5000
Grayhill Inc La Grange IL	312-354-1040
HIG Co Inc Hartford CT	203-522-8600
Hytek Microsystems Inc Los Gatos CA	408-395-2300
Klockner-Moeller Natick MA	617-655-1910
Leach Corp Control Products Div	
Buena Park CA	714-739-0770
Leach Corp Relay Div Los Angeles CA	213-232-8221
Magnecraft Electric Co Northbrook IL	312-564-8800
Master Electronic Controls Los Angeles CA	213-452-1336
Midland-Ross Corp Midtex Div	
North Mankato MN	507-625-6521
Omega Engineering Inc Stamford CT	203-359-1660
Peerless Radio Corp Lynbrook NY	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN	812-386-1000
Projects Unlimited Inc Dayton OH	513-890-1918
Struthers-Dunn Inc Pitman NJ	609-589-7500
T-Bar Inc Wilton CT	203-834-8227
Teledyne Microelectronics Los Angeles CA	213-870-9831
Teledyne Relays Hawthorne CA	213-777-0077
Theta-J Corp Wakefield MA	617-246-4000
Vanguard Relay Corp Warwick RI	401-732-0700

RELAYS—KEYING & BREAK-IN

ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
ADV PG 393	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Applied Electro Technology Int Santa Ana CA	714-556-6570
Bloxcom Corp Wheeling IL	312-520-8010
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Genicom Corp Waynesboro VA	703-949-1000
Master Electronic Controls Los Angeles CA	213-452-1336
Peerless Radio Corp Lynbrook NY	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN	812-386-1000
Relays Inc New York NY	212-873-4500
T M Systems Inc Bridgeport CT	203-366-4571
Universal Relay Corp New York NY	212-925-6900
Vanguard Relay Corp Warwick RI	401-732-0700

RELAYS—LATCHING

ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
AROMAT CORP MOUNTAINSIDE NJ	201-232-4260
ADV PG 391	
CLARE DIV GENERAL INSTRUMENT CORP	
CHICAGO IL	312-262-7700
ADV PG 397	
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
ADV PG 391	
FUJITSU COMPONENTS OF AMERICA INC	
SANTA CLARA CA	408-727-1700
ADV PG 395	
HASCO COMPONENTS INC	
BELLROSE VILLAGE NY	516-328-9292
ADV PG 392	
ITT COMPONENTS DIV SANTA ANA CA	714-836-0351
ADV PG 392	
MAGNECRAFT ELECTRIC CO	
NORTHBROOK IL	312-564-8800
ADV PG 391	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
TELEDYNE RELAYS HAWTHORNE CA	213-777-0077
ADV PG 399	
A D Data Systems Inc Rochester NY	716-334-9649
Airpac Corp Frederick Div Frederick MD	301-663-5141
Allen-Bradley Co Milwaukee WI	414-382-2000
Amerace Corp Hackettstown NJ	201-852-1122
American Zettler Inc Irvine CA	714-660-1670
Aromat Corp Mountainside NJ	201-232-4260
Babcock Inc Orange CA	714-633-3700
Bloxcom Corp Wheeling IL	312-520-8010
Branson Corp Newton NJ	201-383-3132
Clare Div General Instrument Corp Chicago IL	312-262-7700
Communications Instruments Inc Fairview NC	704-628-1711
Computer Components Inc Pelham NY	914-738-1611
Coto Corp Providence RI	401-943-2686
Crouse-Hinds Co Syracuse NY	315-477-7000
Deltrol Controls Div Deltrol Corp	
Milwaukee WI	414-671-6800
Douglas Randall Div Pawcatuck CT	203-599-2075
Eagle Signal Controls Div Wickes Mfg Co	
Austin TX	512-837-8030
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Elec Spec Corp Vancouver WA	206-574-5000
Electric Switches Inc Los Angeles CA	213-660-1310
Elec-Trol Inc Saugus CA	805-252-8330
Electro National Corp Canton MS	601-859-5531
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Electronic Instrument & Specialty Corp	
Stoneham MA	617-438-5300
Electroswitch Weymouth MA	617-335-5200
Fifth Dimension Inc Trenton NJ	609-393-8350
Fujitsu Component of America Inc	
Lake Bluff IL	312-295-2610



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RELAYS—HIGH-G

EG CORPORATION SOMERVILLE NJ	201-722-9800
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
ADV PG 393	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
TELEDYNE RELAYS HAWTHORNE CA	213-777-0077
ADV PG 399	
EG Corporation Somerville NJ	201-722-9800
irpac Corp Frederick Div Frederick MD	301-663-5141
merican Control Prods Div Precision Timer Co Inc	
Westbrook CT	203-399-6253
abcock Inc Orange CA	714-633-3700
loxcom Corp Wheeling IL	312-520-8010
anson Corp Newton NJ	201-383-3132
aton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
ec Spec Corp Vancouver WA	206-574-5000
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
enicom Corp Waynesboro VA	703-949-1000
IG Co Inc Hartford CT	203-522-8600
ach Corp Control Products Div	
Buena Park CA	714-739-0770
ach Corp Relay Div Los Angeles CA	213-232-8221
aster Electronic Controls Los Angeles CA	213-452-1336
Peerless Radio Corp Lynbrook NY	516-593-2121
otter & Brumfield Div AMF Inc Princeton IN	812-386-1000
oss Engineering Corp Campbell CA	408-377-4621
olid State Electronics Corp Northridge CA	818-993-8257
Struthers-Dunn Inc Pitman NJ	609-589-7500
teledyne Microelectronics Los Angeles CA	213-870-9831
teledyne Relays Hawthorne CA	213-777-0077

RELAYS—HYBRID (WITH INTEGRAL SEMICONDUCTORS)

AROMAT CORP MOUNTAINSIDE NJ	201-232-4260
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
ADV PG 393	
RAYHILL INC LA GRANGE IL	312-354-1040
YTEK MICROSYSTEMS INC	
LOS GATOS CA	408-395-2300
MAGNECRAFT ELECTRIC CO	
NORTHBROOK IL	312-564-8800
ADV PG 391	
MEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
TELEDYNE RELAYS HAWTHORNE CA	213-777-0077
ADV PG 399	
mperte Co Inc Union City NJ	201-864-9503
pplied Controls Co Inc Fairfield NJ	201-227-5454
romat Corp Mountainside NJ	201-232-4260
abcock Inc Orange CA	714-633-3700
loxcom Corp Wheeling IL	312-520-8010
omputer Components Inc Pelham NY	914-738-1611

Fujitsu Components of America Inc	
Santa Clara CA	408-727-1700
Furnas Electric Co Batavia IL	312-879-6000
Genicom Corp Waynesboro VA	703-949-1000
Hasco Components Inc Bellrose Village NY	516-328-9292
HIG Co Inc Hartford CT	203-522-8600
Idec Izumi Corp Osaka Japan	81-6-2005530
IDEC Systems & Controls Corp	
Santa Clara CA	408-988-7500
Information Transfer Industrial Inc	
Holcomb NY	716-657-7074
Inmark Corp Norwalk CT	203-866-8474
ITT Components Div Santa Ana CA	714-836-0351
Jaico Products Jaidring Mfg Co Chicago IL	312-421-1090
Jennings Div FL Industries San Jose CA	408-292-4025
Kilovac Corp Santa Barbara CA	805-684-4560
Klockner-Moeller Natick MA	617-655-1910
Leach Corp Relay Div Los Angeles CA	213-232-8221
Liberty Controls Inc Shorewood IL	815-725-2241
Magnecraft Electric Co Northbrook IL	312-564-8800
Matrix Systems Corp Calabasas CA	818-992-6776
Midland-Ross Corp Midtex Div	
North Mankato MN	507-625-6521
Mountain West Alarm Supply Co Phoenix AZ	602-263-8831
Oak Switch Systems Inc Crystal Lake IL	815-459-5000
Olympic Controls Corp Elgin IL	312-742-3566
Omron Electronics Inc Schaumburg IL	312-843-7900
Peerless Radio Corp Lynbrook NY	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN	812-386-1000
RLC Electronics Inc Mt Kisco NY	914-241-1334
Ross Engineering Corp Campbell CA	408-377-4621
Sager Hingham MA	617-749-6700
Shrack North America Inc Elmstord NY	914-792-1305
Shokai Far East Ltd Hartsdale NY	914-681-0700
Solid State Electronics Corp Northridge CA	818-993-8257
Specialties Mfg Co St Clair Shores MI	800-482-2828
Square D Co Palatine IL	312-397-2600
Stancor Products/Hamilton Standard Controls	
Logansport IN	219-722-2244
Stetron International Inc Buffalo NY	716-854-3443
Struthers-Dunn Inc Pitman NJ	609-589-7500
T-Bar Inc Wilton CT	203-834-8227
Teledyne Relays Hawthorne CA	213-777-0077
Telemecanique Inc Plantsville CT	203-621-6771
Touch-Plate International Inc Paramount CA	213-636-8171
Transamerica Delaval Inc Gems Sensors Div	
Plainville CT	203-677-1311
Trimax Div Trush Cazenovia NY	315-655-3551
Triridge Corp Leesburg FL	904-728-0799
U S Controls Corp New Berlin WI	414-782-0340
Vanguard Relay Corp Warwick RI	401-732-0700
Vapor Corp Chicago IL	312-631-9200
Wabash Electrical Components Group	
Huntington IN	219-356-8300
Wabash Relay & Electronics Div Wabash IN	219-563-2191
Ward Leonard Electric Co Mt Vernon NY	914-664-1000
Wes-Garde Components Group Inc	
Hartford CT	203-525-6907

RELAYS—MERCURY

CLARE DIV GENERAL INSTRUMENT CORP	
CHICAGO IL	312-262-7700
ADV PG 397	
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
ADV PG 393	
FUJITSU COMPONENTS OF AMERICA INC	
SANTA CLARA CA	408-727-1700
ADV PG 395	
HASCO COMPONENTS INC	
BELLROSE VILLAGE NY	516-328-9292
ADV PG 392	
ITT COMPONENTS DIV SANTA ANA CA	714-836-0351
ADV PG 392	
MAGNECRAFT ELECTRIC CO	
NORTHBROOK IL	312-564-8800
ADV PG 391	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Babcock Inc Orange CA	714-633-3700
Clare Div General Instrument Corp Chicago IL	312-262-7700
Computer Components Inc Pelham NY	914-738-1611
Coto Corp Garland TX	214-276-9487
Coto Corp Providence RI	401-943-2686
Douglas Randall Div Pawcatuck CT	203-599-2075
Durakool Inc Elkhart IN	219-264-1116
Elec Spec Corp Vancouver WA	206-574-5000
Electric Switches Inc Los Angeles CA	213-660-1310
Elec-Trol Inc Saugus CA	805-252-8330
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Electronic Instrument & Specialty Corp	
Stoneham MA	617-438-5300
Fifth Dimension Inc Trenton NJ	609-393-8350
Fujitsu Component of America Inc	
Lake Bluff IL	312-295-2610
Fujitsu Components of America Inc	
Santa Clara CA	408-727-1700
Gordos Corp Bloomfield NJ	201-743-6800
Hamlin Inc Lake Mills WI	414-648-2361
Hasco Components Inc Bellrose Village NY	516-328-9292
InResCo Inc Point Pleasant NJ	201-892-5881
ITT Components Div Santa Ana CA	714-836-0351
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Magnecraft Electric Co Northbrook IL	312-564-8800
Master Electronic Controls Los Angeles CA	213-452-1336
Matrix Systems Corp Calabasas CA	818-992-6776
Midland-Ross Corp Midtex Div	
North Mankato MN	507-625-6521
NEC America Inc Melville NY	516-753-7000
Peerless Radio Corp Lynbrook NY	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN	812-386-1000
Sager Hingham MA	617-749-6700
Struthers-Dunn Inc Pitman NJ	609-589-7500
Tridridge Corp Leesburg FL	904-728-0799
Universal Relay Corp New York NY	212-925-6900
Wabash Electrical Components Group	
Huntington IN	219-356-8300
Watlow Electric Winona MN	507-454-5300

RELAYS—MIL-SPEC, HIGH RELIABILITY

CLARE DIV GENERAL INSTRUMENT CORP	
CHICAGO IL	312-262-7700
ADV PG 397	
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
ADV PG 393	
MAGNECRAFT ELECTRIC CO	
NORTHBROOK IL	312-564-8800
ADV PG 391	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
TELEDYNE RELAYS HAWTHORNE CA	213-777-0077
ADV PG 399	
TELEDYNE SOLID STATE DIV TELEDYNE RELAYS	
HAWTHORNE CA	213-777-0077
Airpax Corp Frederick Div Frederick MD	301-663-5141
Amerace Corp Hackettstown NJ	201-852-1122
Associates Electronics & Mfg Corp	
Upper Montclair NJ	201-783-7800
Babcock Inc Orange CA	714-633-3700
Bloxcom Corp Wheeling IL	312-520-8010
Branson Corp Newton NJ	201-383-3132
Clare Div General Instrument Corp Chicago IL	312-262-7700
Communications Instruments Inc Fairview NC	704-628-1711
Computer Components Inc Pelham NY	914-738-1611
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Elec Spec Corp Vancouver WA	206-574-5000
Elec-Trol Inc Saugus CA	805-252-8330
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Genicom Corp Waynesboro VA	703-949-1000
HIG Co Inc Hartford CT	203-522-8600
Histar Corp New York NY	212-679-2706
Jennings Div FL Industries San Jose CA	408-292-4025
Kilovac Corp Santa Barbara CA	805-684-4560
Leach Corp Control Products Div	
Buena Park CA	714-739-0770
Leach Corp Relay Div Los Angeles CA	213-232-8221
Logitek Inc Ronkonkoma NY	516-467-4200
Magnecraft Electric Co Northbrook IL	312-564-8800
Master Electronic Controls Los Angeles CA	213-452-1336
Peerless Radio Corp Lynbrook NY	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN	812-386-1000
Relays Inc New York NY	212-873-4500
RLC Electronics Inc Mt Kisco NY	914-241-1334
Ross Engineering Corp Campbell CA	408-377-4621
Sager Hingham MA	617-749-6700

Scientific Technology Inc Mtn View CA	415-965-0910
Struthers-Dunn Inc Pitman NJ	609-589-7500
T-Bar Inc Wilton CT	203-834-8227
Teledyne Microelectronics Los Angeles CA	213-870-9831
Teledyne Relays Hawthorne CA	213-777-0077
Teledyne Solid State Div Teledyne Relays	
Hawthorne CA	213-777-0077
Universal Relay Corp New York NY	212-925-6900

RELAYS—OVERLOAD

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
CLARE DIV GENERAL INSTRUMENT CORP	
CHICAGO IL	312-262-7700
ADV PG 397	
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
ADV PG 393	
MAGNECRAFT ELECTRIC CO	
NORTHBROOK IL	312-564-8800
ADV PG 391	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
AEG Corporation Somerville NJ	201-722-9800
Allen-Bradley Co Milwaukee WI	414-382-2000
American Solenoid Co Inc Somerset NJ	201-560-1240
Amperite Co Inc Union City NJ	201-864-9503
Applied Electro Technology Int Santa Ana CA	714-556-6570
Automatic Switch Co Florham Park NJ	201-966-2000
Autronics Corp Arcadia CA	818-445-5470
Clare Div General Instrument Corp Chicago IL	312-262-7700
Computer Components Inc Pelham NY	914-738-1611
Cooper Industries Arrow Hart Hartford CT	203-249-8471
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Crouse-Hinds Co Syracuse NY	315-477-7000
Detroit Controls Div Detroit Corp	
Milwaukee WI	414-671-6800
Durakool Inc Elkhart IN	219-264-1116
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Electric Switches Inc Los Angeles CA	213-660-1310
Electro National Corp Canton MS	601-859-5511
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Heinemann Electric Co Lawrenceville NJ	609-882-4800
Histar Corp New York NY	212-679-2706
Instrumentation & Control Systems Inc	
Addison IL	312-543-6200
Jennings Div FL Industries San Jose CA	408-292-4025
Klockner-Moeller Natick MA	617-655-1910
Magnecraft Electric Co Northbrook IL	312-564-8800
Master Electronic Controls Los Angeles CA	213-452-1336
MEKtron Inc Northboro MA	617-393-2451
Omron Electronics Inc Schaumburg IL	312-843-7900
Peerless Radio Corp Lynbrook NY	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN	812-386-1000
Precision Electronics Inc Copiague NY	516-842-4900
Relays Inc New York NY	212-873-4500
Square D Co Palatine IL	312-397-2600
Struthers-Dunn Inc Pitman NJ	609-589-7500
Universal Relay Corp New York NY	212-925-6900
Ward Leonard Electric Co Mt Vernon NY	914-664-1000
Wilmar Electronics Inc Torrance CA	213-326-6668

RELAYS—OVERVOLTAGE & UNDERVOLTAGE

AEG CORPORATION SOMERVILLE NJ	201-722-9800
CLARE DIV GENERAL INSTRUMENT CORP	
CHICAGO IL	312-262-7700
ADV PG 397	
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
ADV PG 393	
MAGNECRAFT ELECTRIC CO	
NORTHBROOK IL	312-564-8800
ADV PG 391	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Acromag Inc Wixom MI	313-624-1541
AEG Corporation Somerville NJ	201-722-9800
Amerace Corp Hackettstown NJ	201-852-1122
American Solenoid Co Inc Somerset NJ	201-560-1240
Amperite Co Inc Union City NJ	201-864-9503
Applied Electro Technology Int Santa Ana CA	714-556-6570
Automatic Switch Co Florham Park NJ	201-966-2000
Autronics Corp Arcadia CA	818-445-5470
Babcock Inc Orange CA	714-633-3700
Clare Div General Instrument Corp Chicago IL	312-262-7700
Computer Components Inc Pelham NY	914-738-1611
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Detroit Controls Div Detroit Corp	
Milwaukee WI	414-671-6800
Diversified Electronics Inc Evansville IN	800-874-0619
Douglas Randall Div Pawcatuck CT	203-599-2075
Durakool Inc Elkhart IN	219-264-1116
Dynamic Controls Corp South Windsor CT	203-528-9971
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Electric Switches Inc Los Angeles CA	213-660-1310
Electro National Corp Canton MS	601-859-5511
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Instrumentation & Control Systems Inc	
Addison IL	312-543-6200
Jaico Products Jaidinger Mfg Co Chicago IL	312-421-1090
Lake Shore Electric Corp Bedford OH	216-232-0200
LaMarche Mfg Co Des Plaines IL	312-229-1188

Lark Electronics Inc New York NY	212-569-0431
Larson Instrument Co Inc Orangeburg NY	914-359-3800
Leach Corp Relay Div Los Angeles CA	213-232-8221
Logitek Inc Ronkonkoma NY	516-467-4200
Magnecraft Electric Co Northbrook IL	312-564-8800
Master Electronic Controls Los Angeles CA	213-452-1336
Peerless Radio Corp Lynbrook NY	516-593-2121
Phoenix Terminal Blocks Inc Harrisburg PA	717-944-1300
Potter & Brumfield Div AMF Inc Princeton IN	812-386-1000
Precision Electronics Inc Copiague NY	516-842-4900
Square D Co Palatine IL	312-397-2600
Struthers-Dunn Inc Pitman NJ	609-589-7500
Time Mark Corp Tulsa OK	918-438-1221
Ward Leonard Electric Co Mt Vernon NY	914-664-1000
Wilmar Electronics Inc Torrance CA	213-326-6668

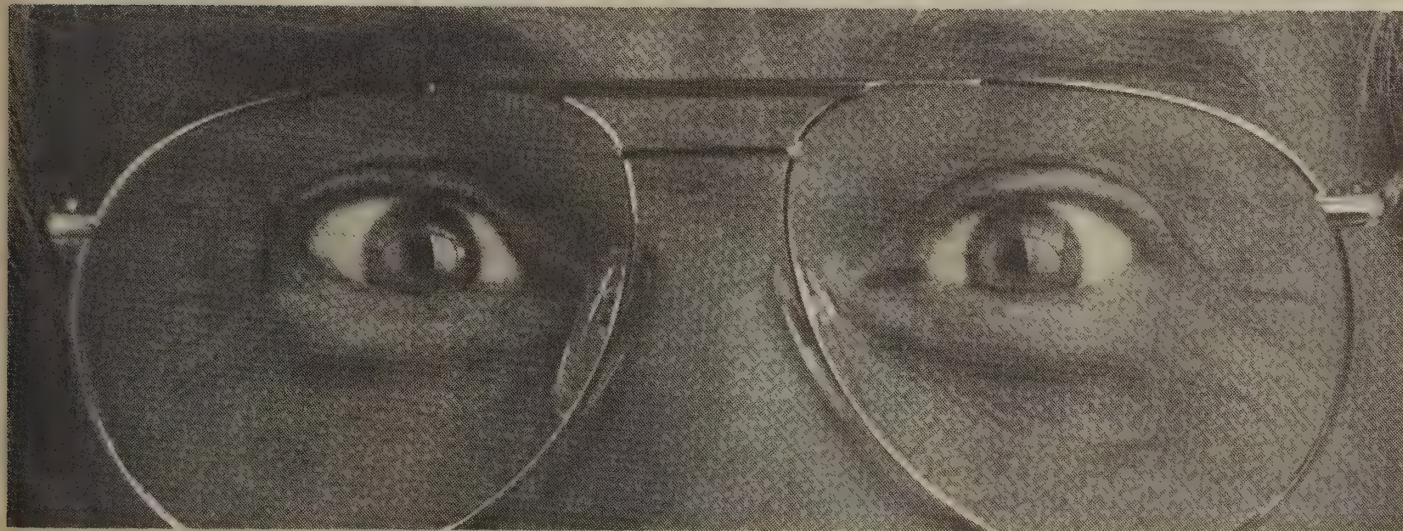
RELAYS—POLARIZED

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AROMAT CORP MOUNTAINSIDE NJ	201-232-4266
ADV PG 391	
CLARE DIV GENERAL INSTRUMENT CORP	
CHICAGO IL	312-262-7700
ADV PG 397	
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
ADV PG 393	
FUJITSU COMPONENTS OF AMERICA INC	
SANTA CLARA CA	408-727-1700
ADV PG 395	
ITT COMPONENTS DIV SANTA ANA CA	714-836-0351
ADV PG 392	
MAGNECRAFT ELECTRIC CO	
NORTHBROOK IL	312-564-8800
ADV PG 391	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8255
TELEDYNE RELAYS HAWTHORNE CA	213-777-0077
ADV PG 399	
AEG Corporation Somerville NJ	201-722-9800
American Zettler Inc Irvine CA	714-660-1671
Aromat Corp Mountainside NJ	201-232-4266
Bloxcom Corp Wheeling IL	312-520-8010
Clare Div General Instrument Corp Chicago IL	312-262-7700
Communications Instruments Inc Fairview NC	704-628-1711
Computer Components Inc Pelham NY	914-738-1611
Coto Corp Providence RI	401-943-2686
Detroit Controls Div Detroit Corp	
Milwaukee WI	414-671-6800
Douglas Randall Div Pawcatuck CT	203-599-2075
Electro National Corp Canton MS	601-859-5511
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Fujitsu Component of America Inc	
Lake Bluff IL	312-295-2610
Fujitsu Components of America Inc	
Santa Clara CA	408-727-1700
Genicom Corp Waynesboro VA	703-949-1000
ITT Components Div Santa Ana CA	714-836-0351
Leach Corp Relay Div Los Angeles CA	213-232-8221
Magnecraft Electric Co Northbrook IL	312-564-8800
Master Electronic Controls Los Angeles CA	213-452-1336
Midland-Ross Corp Midtex Div	
North Mankato MN	507-625-6521
Original Electric Mfg Co Inc Middlesex NJ	201-271-5771
Peerless Radio Corp Lynbrook NY	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN	812-386-1000
Relays Inc New York NY	212-873-4500
Schrack North America Inc Elmstorf NY	914-592-1300
Solid State Electronics Corp Northridge CA	818-993-8255
Square D Co Palatine IL	312-397-2600
Struthers-Dunn Inc Pitman NJ	609-589-7500
Teledyne Relays Hawthorne CA	213-777-0077
Universal Relay Corp New York NY	212-925-6900

RELAYS—POWER

ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
AROMAT CORP MOUNTAINSIDE NJ	201-232-4266
ADV PG 391	
CLARE DIV GENERAL INSTRUMENT CORP	
CHICAGO IL	312-262-7700
ADV PG 397	
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
ADV PG 393	
HASCO COMPONENTS INC	
BELLROSE VILLAGE NY	516-328-9292
ADV PG 392	
ITT COMPONENTS DIV SANTA ANA CA	714-836-0351
ADV PG 392	
MAGNECRAFT ELECTRIC CO	
NORTHBROOK IL	312-564-8800
ADV PG 391	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8255
TELEDYNE SOLID STATE DIV TELEDYNE RELAYS	
HAWTHORNE CA	213-777-0077
Advanced Components Industries Inc	
El Segundo CA	213-322-4241
Allen-Bradley Co Milwaukee WI	414-382-2000
American Zettler Inc Irvine CA	714-660-1671
Aromat Corp Mountainside NJ	201-232-4266
Automatic Switch Co Florham Park NJ	201-966-2000
Bloxcom Corp Wheeling IL	312-520-8010
Bosch Corp Robert Automotive Group	
Broadview IL	312-865-5455

Fujitsu really opened my eyes!



The Time: 9:30 A.M.

The Place: A conference room on an upper floor of Two World Trade Center.

The Situation: Lee Hales, Vice President/Operations of a telecommunications concern, stared at the nightmarish figures before him. "24% rejects on the mercury-wetted! And for the second quarter in a row!" He turned to his purchasing man and asked, "What's gone wrong with these guys?"

"We always used to get great product from them," his purchasing man explained. "but it's as though they've lost their recipe. Now—to reduce costs—they get their switches from one country and their coils from another, and nothing seems to fit."

The Solution: Hales directed him to find a new source. "Or you and I might be on the street!" Purchasing evaluated several proposals, and chose Fujitsu. As he told Hales, "They're completely vertical—every part of every mercury-wetted is made under one roof."

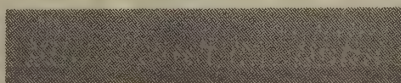
"And not just mercs," he continued, "but reeds and electro-mechanicals, too. And Fujitsu tests 100% of their product, so we don't have to!" But can they deliver 50,000 a month? asked Hales. The silent nod told him all he needed to know.

The Result: Hales not only has a new supplier, he has a new outlook. With a ready smile, he says, "Fujitsu really opened my eyes!"

The Fine Print: The identities of our clients have been changed.

The Bottom Line: Completely disciplined manufacturing is just one facet of everything that goes into Fujitsu components. Design excellence is another. But, you'd expect that from a subsidiary of a \$5 billion worldwide manufacturer of telecommunications, computers and semiconductors. To learn more about Fujitsu components, and what they can mean to *your* products, write Fujitsu Components of America, Inc., 3320 Scott Boulevard, Santa Clara, CA 95054 or call (408) 727-1700. We'll really open your eyes, too.

**Spec us just once. We'll become
your best supplier.**



FUJITSU



Clare Div General Instrument Corp Chicago IL.....	312-262-7700
Computer Components Inc Pelham NY.....	914-738-1611
Cooper Industries Arrow Hart Hartford CT.....	203-249-8471
Crydom Div Intl Rectifier Corp El Segundo CA.....	213-322-4987
Detroit Controls Div Detroit Corp	
Milwaukee WI.....	414-671-6800
Dow-Key Microwave Corp Carpinteria CA.....	805-684-0427
Durakool Inc Elk Hart IN.....	219-264-1116
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI.....	414-449-6000
Electric Switches Inc Los Angeles CA.....	213-660-1310
Electronic Equipment Co Ltd Hempstead NY.....	516-538-5510
Electrowitch Weymouth MA.....	617-335-5510
Elmwood Sensors Inc Pawtucket RI.....	401-727-1300
Gordos Corp Bloomfield NJ.....	201-743-6800
Guardian Electric Mfg Co Chicago IL.....	312-243-1100
Hasco Components Inc Bellrose Village NY.....	516-328-9292
Histar Corp New York NY.....	212-679-2706
Idec Izumi Corp Osaka Japan.....	81-6-2005530
ITT Components Div Santa Ana CA.....	714-836-0351
Jack Products Jaidring Mfg Co Chicago IL.....	312-421-1090
Jennings Div FL Industries San Jose CA.....	408-292-4025
Kilovac Corp Santa Barbara CA.....	805-684-4560
Leach Corp Relay Div Los Angeles CA.....	213-232-8221
Magnecraft Electric Co Northbrook IL.....	312-564-8800
Master Electronic Controls Los Angeles CA.....	213-452-1336
Microelectronic Relays Inc San Pedro CA.....	213-831-2331
Midland-Ross Corp Midtex Div	
North Mankato MN.....	507-625-6521
Oak Switch Systems Inc Crystal Lake IL.....	815-459-5000
Omron Electronics Inc Schaumburg IL.....	312-843-7900
Original Electric Mfg Co Inc Middlesex NJ.....	201-271-5770
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN.....	812-386-1000
Projects Unlimited Inc Dayton OH.....	513-890-1918
Relays Inc New York NY.....	212-873-4500
Ross Engineering Corp Campbell CA.....	408-377-4621
Sager Hingham MA.....	617-749-6700
Schrack North America Inc Elmstord NY.....	914-592-1305
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Solid State Electronics Corp Northridge CA.....	818-993-8257
Square D Co Palatine IL.....	312-397-2600
Stancor Products/Hamilton Standard Controls	
Logansport IN.....	219-722-2244
Stetron International Inc Buffalo NY.....	716-854-3443
Struthers-Dunn Inc Pitman NJ.....	609-589-7500
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Teledyne Solid State Div Teledyne Relays	
Hawthorne CA.....	213-777-0077
U S Controls Corp New Berlin WI.....	414-782-0340
Universal Relay Corp New York NY.....	212-925-6900
Vanguard Relay Corp Warwick RI.....	401-732-0700
Ward Leonard Electric Co Mt Vernon NY.....	914-664-1000
Wes-Garde Components Group Inc	
Hartford CT.....	203-525-6907

RELAYS—PROXIMITY

ELECTRIC SWITCHES INC	
LOS ANGELES CA.....	213-660-1310
ADV PGS 434,435	
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY.....	516-538-5510
ADV PG 393	
PEERLESS RADIO CORP LYNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
Electric Switches Inc Los Angeles CA.....	213-660-1310
Electromatic Controls Corp	
Hoffman Estates IL.....	312-882-5757
Electro National Corp Canton MS.....	601-859-5511
Electronic Equipment Co Ltd Hempstead NY.....	516-538-5510
Gordos Corp Bloomfield NJ.....	201-743-6800
Histar Corp New York NY.....	212-679-2706
Leach Corp Relay Div Los Angeles CA.....	213-232-8221
Master Electronic Controls Los Angeles CA.....	213-452-1336
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Wabash Electrical Components Group	
Huntington IN.....	219-358-8300
Wabash Relay & Electronics Div Wabash IN.....	219-563-2191

RELAYS—REED

ALLEN-BRADLEY CO MILWAUKEE WI.....	414-382-2000
CLARE DIV GENERAL INSTRUMENT CORP	
CHICAGO IL.....	312-262-7700
ADV PG 397	
ELECTRIC SWITCHES INC	
LOS ANGELES CA.....	213-660-1310
ADV PGS 434,435	
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY.....	516-538-5510
ADV PG 393	
FUJITSU COMPONENTS OF AMERICA INC	
SANTA CLARA CA.....	408-727-1700
ADV PG 395	
HASCO COMPONENTS INC	
BELLROSE VILLAGE NY.....	516-328-9292
ADV PG 392	
HYTEK MICROSYSTEMS INC	
LOS GATOS CA.....	408-395-2300
ISKRA ELECTRONICS INC	
FARMINGDALE NY.....	516-753-0400
KIN-TRONICS INC YONKERS NY.....	914-968-7736
ADV PGS See Ads In Green Pages	
MAGNECRAFT ELECTRIC CO	
NORTHBROOK IL.....	312-564-8800
ADV PG 391	
PEERLESS RADIO CORP LYNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
PHILIPS ECG INC WALTHAM MA.....	617-890-6107
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA.....	818-993-8257
A D Data Systems Inc Rochester NY.....	716-334-9649

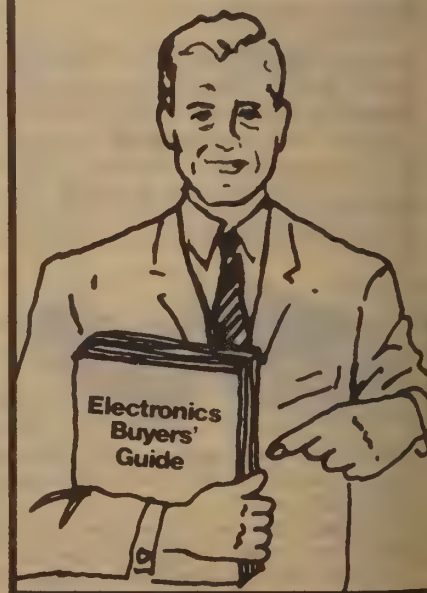
AID Electronics Inc Irving TX.....	214-790-4761
Allen-Bradley Co Milwaukee WI.....	414-382-2000
American Zettler Inc Irvine CA.....	714-660-1670
Babcock Inc Orange CA.....	714-633-3700
Bloxcom Corp Wheeling IL.....	312-520-8010
Clare Div General Instrument Corp Chicago IL.....	312-262-7700
Computer Components Inc Pelham NY.....	914-738-1611
Cosar Corp Garland TX.....	214-276-9487
Coto Corp Providence RI.....	401-943-2686
Douglas Randall Div Pawcatuck CT.....	203-599-2075
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI.....	414-449-6000
Elec Spec Corp Vancouver WA.....	206-574-5000
Electric Switches Inc Los Angeles CA.....	213-660-1310
Elec-Trol Inc Saugus CA.....	805-252-8330
Electro National Corp Canton MS.....	601-859-5511
Electronic Equipment Co Ltd Hempstead NY.....	516-538-5510
Erni Components Corp Richmond VA.....	804-794-6367
Fujitsu Component of America Inc	
Lake Bluff IL.....	312-295-2610
Fujitsu Components of America Inc	
Santa Clara CA.....	408-727-1700
Genicom Corp Waynesboro VA.....	703-949-1000
Hamlin Inc Lake Mills WI.....	414-648-2361
Hasco Components Inc Bellrose Village NY.....	516-328-9292
Histar Corp New York NY.....	212-679-2706
Hytek Microsystems Inc Los Gatos CA.....	408-395-2300
Information Transfer Industrial Inc	
Holcomb NY.....	716-657-7074
InResCo Inc Point Pleasant NJ.....	201-892-5881
Interconnect Devices Inc Kansas City KS.....	913-342-5544
ISKRA Electronics Inc Farmingdale NY.....	516-753-0400
Kin-Tronics Inc Yonkers NY.....	914-968-7736
Magnecraft Electric Co Northbrook IL.....	312-564-8800
Matrix Systems Corp Calabasas CA.....	818-992-6776
MKC Electronics Corp Kansas City KS.....	913-371-1351
Omron Electronics Inc Schaumburg IL.....	312-843-7900
Original Electric Mfg Co Inc Middlesex NJ.....	201-271-5770
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Philips ECG Inc Waltham MA.....	617-890-6107
Potter & Brumfield Div AMF Inc Princeton IN.....	812-386-1000
Projects Unlimited Inc Dayton OH.....	513-890-1918
Sager Hingham MA.....	617-749-6700
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
SR Engineering Inc Garden Grove CA.....	714-554-4200
Standex Electronics Cincinnati OH.....	513-871-3777
Thermosen Inc Stamford CT.....	203-324-6125
Tridridge Corp Leesburg FL.....	904-728-0799
Universal Relay Corp New York NY.....	212-925-6900
Wabash Relay & Electronics Div Wabash IN.....	219-563-2191
Wes-Garde Components Group Inc	
Hartford CT.....	203-525-6907

RELAYS—SENSITIVE

AROMAT CORP MOUNTAINSIDE NJ.....	201-232-4260
ADV PG 391	
CLARE DIV GENERAL INSTRUMENT CORP	
CHICAGO IL.....	312-262-7700
ADV PG 397	
ELECTRIC SWITCHES INC	
LOS ANGELES CA.....	213-660-1310
ADV PGS 434,435	
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY.....	516-538-5510
ADV PG 393	
HASCO COMPONENTS INC	
BELLROSE VILLAGE NY.....	516-328-9292
ADV PG 392	
ITT COMPONENTS DIV SANTA ANA CA.....	714-836-0351
ADV PG 392	
MAGNECRAFT ELECTRIC CO	
NORTHBROOK IL.....	312-564-8800
ADV PG 391	
PEERLESS RADIO CORP LYNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
TELEDYNE RELAYS HAWTHORNE CA.....	213-777-0077
ADV PG 399	
Action Instruments Inc San Diego CA.....	619-279-5726
Airpax Corp Frederick Div Frederick MD.....	301-663-5141
American Zettler Inc Irvine CA.....	714-660-1670
Armtec Industries Inc Manchester NH.....	603-669-0940
Aromat Corp Mountainside NJ.....	201-232-4260
Babcock Inc Orange CA.....	714-633-3700
Clare Div General Instrument Corp Chicago IL.....	312-262-7700
Communications Instruments Inc Fairview NC.....	704-628-1711
Coto Corp Providence RI.....	401-943-2686
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI.....	414-449-6000
Electric Switches Inc Los Angeles CA.....	213-660-1310
Electronic Equipment Co Ltd Hempstead NY.....	516-538-5510
Genicom Corp Waynesboro VA.....	703-949-1000
Hasco Components Inc Bellrose Village NY.....	516-328-9292
Histar Corp New York NY.....	212-679-2706
InResCo Inc Point Pleasant NJ.....	201-892-5881
ITT Components Div Santa Ana CA.....	714-836-0351
Magnecraft Electric Co Northbrook IL.....	312-564-8800
Master Electronic Controls Los Angeles CA.....	213-452-1336
Omron Electronics Inc Schaumburg IL.....	312-843-7900
Original Electric Mfg Co Inc Middlesex NJ.....	201-271-5770
Peerless Radio Corp Lynbrook NY.....	516-593-2121
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Sager Hingham MA.....	617-749-6700
Sigma Instruments Inc Switching Div	
Braintree MA.....	617-843-5000
Stancor Products/Hamilton Standard Controls	
Logansport IN.....	219-722-2244
Stantel Components Corp Schaumburg IL.....	312-490-7150
Struthers-Dunn Inc Pitman NJ.....	609-589-7500
Teledyne Relays Hawthorne CA.....	213-777-0077
Thomson CSF Inc White Plains NY.....	914-694-4450
Tridridge Corp Leesburg FL.....	904-728-0799
Wabash Electrical Components Group	
Huntington IN.....	219-358-8300
Ward Leonard Electric Co Mt Vernon NY.....	914-664-1000

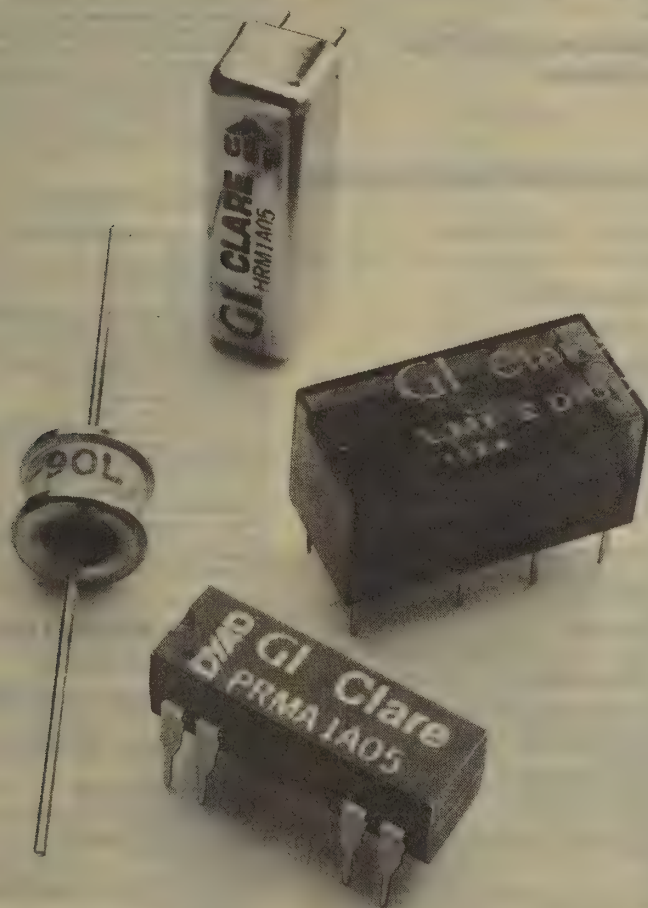
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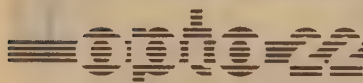
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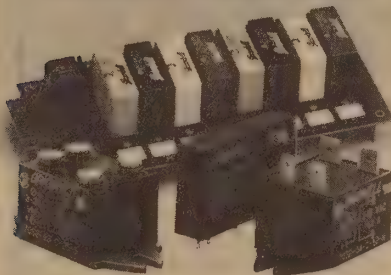


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ADV PG Green Pages	
AROMAT CORP MOUNTAINSIDE NJ.....	201-232-4260
ELECTRIC SWITCHES INC LOS ANGELES CA.....	213-660-1310
ADV PGS 434,435	
ELECTRONIC EQUIPMENT CO LTD HEMPSTEAD NY.....	516-538-5510
ADV PG 393	
GRAYHILL INC LA GRANGE IL.....	312-354-1040
ADV PG 398	
ITT COMPONENTS DIV SANTA ANA CA.....	714-836-0351
ADV PG 392	
MAGNECRAFT ELECTRIC CO NORTHBRIDGE IL.....	312-564-8800
ADV PG 391	
OMEGA ENGINEERING INC STAMFORD CT.....	203-359-1660
ADV PG Gatefold	
OPTO-22 HUNTINGTON BEACH CA.....	714-891-5861
ADV PG 398	
PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
PHILIPS ECG INC WALTHAM MA.....	617-890-6107
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
SOLID STATE ELECTRONICS CORP NORTHBRIDGE CA.....	818-993-8257
TELEDYNE SOLID STATE DIV TELEDYNE RELAYS HAWTHORNE CA.....	213-777-0077
ADV PG 399	
ABM Semiconductor Inc San Jose CA.....	408-297-7477
Action Instruments Inc San Diego CA.....	619-279-5726
AID Electronics Inc Irving TX.....	214-790-4761
Almo Electronics Inc Philadelphia PA.....	215-698-4000
Amerace Corp Hackettstown NJ.....	201-852-1122
Applied Controls Co Inc Fairfield NJ.....	201-227-5454
Applied Electro Technology Int Santa Ana CA.....	714-556-6570
Aromat Corp Mountainside NJ.....	201-232-4260
A-Systems Inc Charlottesville VA.....	804-295-7200
ATR Electronics Inc St Paul MN.....	612-222-3791
Automatic Switch Co Florham Park NJ.....	201-966-2000
Computer Components Inc Pelham NY.....	914-738-1611
Continental Industries Inc Mesa AZ.....	602-985-7800
Crydom Div Int Rectifier Corp El Segundo CA.....	213-322-4987
DataTran Labs Inc Sussex NJ.....	914-856-4313
Daytronic Corp Miamisburg OH.....	513-866-3300
De-Tec-Tronic Corp Elgin IL.....	312-695-9150
Dionics Inc Westbury NY.....	516-997-7474
Dumont Instrumentation Inc Commack NY.....	516-864-8500
Dynamic Controls Corp South Windsor CT.....	203-328-9971
Electric Switches Inc Los Angeles CA.....	213-660-1310
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Electrologic Inc Signal Hill CA.....	213-595-05
Electromatic Controls Corp Hoffman Estates IL.....	312-882-57
Electromatic Equipment Co Inc Cedarhurst NY.....	516-295-43
Electronic Equipment Co Ltd Hempstead NY.....	516-538-55
Electronic Instrument & Specialty Corp Stoneham MA.....	617-438-53
Enerco Seattle WA.....	206-762-14
General Magnetics Inc Bloomfield NJ.....	201-743-27
Gordos Arkansas Inc Rogers AR.....	501-636-50
Grayhill Inc La Grange IL.....	312-354-10
GTE Lighting Products Danvers MA.....	617-777-19
Guardian Electric Mfg Co Chicago IL.....	312-243-11
Heinemann Electric Co Lawrenceville NJ.....	609-882-21
HIG Co Inc Hartford CT.....	203-522-22
Histar Corp New York NY.....	212-679-27
Idec Izumi Corp Osaka Japan.....	81-6-20055
ITT Components Div Santa Ana CA.....	714-836-03
Klockner-Moeller Natick MA.....	617-655-19
Leach Corp Relay Div Los Angeles CA.....	213-232-82
Logitek Inc Ronkonkoma NY.....	516-467-42
Mag-Con Inc St Paul MN.....	612-633-88
Magnecraft Electric Co Northbrook IL.....	312-564-88
Microelectronic Relays Inc San Pedro CA.....	213-831-23
Midland-Ross Corp Midtex Div North Mankato MN.....	507-625-65
MSI Electronics Inc Woodside NY.....	718-672-65
Omega Engineering Inc Stamford CT.....	203-359-16
Omron Electronics Inc Schaumburg IL.....	312-843-79
Opto-22 Huntington Beach CA.....	714-891-58
Parko Electronics Co Inc Irvine CA.....	714-660-80
Payne Engineering Co Scott Depot WV.....	304-757-73
Peerless Radio Corp Lynbrook NY.....	516-593-21
Philips ECG Inc Waltham MA.....	617-890-61
Phonix Terminal Blocks Inc Harrisburg PA.....	717-944-13
Potter & Brumfield Div AMF Inc Princeton IN.....	812-386-10
Princo Instruments Inc Southampton PA.....	215-355-15
Projects Unlimited Inc Dayton OH.....	513-890-19
Sager Hingham MA.....	617-749-67
Shokai Far East Ltd Hartsdale NY.....	914-681-07
Solid State Electronics Corp Northridge CA.....	818-993-82
Specialties Mfg Co St Clair Shores MI.....	800-482-28
Struthers-Dunn Inc Pitman NJ.....	609-589-75
Teledyne Microelectronics Los Angeles CA.....	213-870-98
Teledyne Solid State Div Teledyne Relays Hawthorne CA.....	213-777-00
Texas Instruments Optoelectronics Dallas TX.....	214-995-66
Theta-J Corp Wakefield MA.....	617-246-40
Timeco Inc Huntington WV.....	304-523-51
Versitron Div Keene Corp Washington DC.....	202-722-86
Watlow Electric Winona MN.....	507-454-53

RELAYS—STEPPING

AROMAT CORP MOUNTAINSIDE NJ.....	201-232-42
ADV PG 391	
ELECTRONIC EQUIPMENT CO LTD HEMPSTEAD NY.....	516-538-55
ADV PG 393	
PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-21
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA.....	617-749-67
ADV PGS Green Pages/Footstrips	
Amerace Corp Hackettstown NJ.....	201-852-11
Aromat Corp Mountainside NJ.....	201-232-42
Bloxcom Corp Wheeling IL.....	312-520-80
Communications Instruments Inc Fairview NC.....	704-628-17
Electronic Equipment Co Ltd Hempstead NY.....	516-538-55
Guardian Electric Mfg Co Chicago IL.....	312-243-11
Histar Corp New York NY.....	212-679-27
H & L Instruments Burlington CA.....	415-342-78
Oak Switch Systems Inc Crystal Lake IL.....	815-459-50
Omron Electronics Inc Schaumburg IL.....	312-843-79
Peerless Radio Corp Lynbrook NY.....	516-593-21
Sager Hingham MA.....	617-749-67
Struthers-Dunn Inc Pitman NJ.....	609-589-75

RELAYS—SUBMINIATURE (MICROMINIATURE)

AMP INCORPORATED HARRISBURG PA.....	717-564-01
AROMAT CORP MOUNTAINSIDE NJ.....	201-232-42
ADV PG 391	
CLARE DIV GENERAL INSTRUMENT CORP CHICAGO IL.....	312-262-77
ADV PG 397	
ELECTRIC SWITCHES INC LOS ANGELES CA.....	213-660-13
ADV PGS 434,435	
ELECTRONIC EQUIPMENT CO LTD HEMPSTEAD NY.....	516-538-55
ADV PG 393	
FUJITSU COMPONENTS OF AMERICA INC SANTA CLARA CA.....	408-727-17
ADV PG 395	
ITT COMPONENTS DIV SANTA ANA CA.....	714-836-03
ADV PG 392	
MAGNECRAFT ELECTRIC CO NORTHBRIDGE IL.....	312-564-88
ADV PG 391	
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TELEDYNE RELAYS HAWTHORNE CA.....	213-777-00
ADV PG 399	
TELEDYNE SOLID STATE DIV TELEDYNE RELAYS HAWTHORNE CA.....	213-777-00
Alipax Corp Frederick Div Frederick MD.....	301-663-51
American Zettler Inc Irvine CA.....	714-660-16

MP Incorporated Harrisburg PA	717-564-0100
romat Corp Mountaintide NJ	201-232-4260
ssociates Electronics & Mfg Corp	
Upper Montclair NJ	201-783-7800
loxcom Corp Wheeling IL	312-520-8010
osch Corp Robert Automotive Group	
Broadview IL	312-865-5459
ranson Corp Newton NJ	201-383-3132
lare Div General Instrument Corp Chicago IL	312-262-7700
ommunications Instruments Inc Fairview NC	704-628-1711
omputer Components Inc Pelham NY	914-738-1611
ornell-Dublier Electronics Wayne NJ	201-256-2000
osar Corp Garland TX	414-276-9487
oto Corp Providence RI	401-943-2686
lec Spec Corp Vancouver WA	206-574-5000
lectric Switches Inc Los Angeles CA	213-660-1310
lectro National Corp Canton MS	601-859-5511
lectronic Equipment Co Ltd Hempstead NY	516-538-5510
ifth Dimension Inc Trenton NJ	609-393-8350
ujitsu Component of America Inc	
Lake Bluff IL	312-295-2610
ujitsu Components of America Inc	
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EC Systems & Controls Corp	
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ResCo Inc Point Pleasant NJ	201-892-5881
T Components Div Santa Ana CA	714-836-0351
each Corp Relay Div Los Angeles CA	213-232-8221
lagnecraft Electric Co Northbrook IL	312-564-8800
aster Electronic Controls Los Angeles CA	213-452-1336
icroelectronic Relays Inc San Pedro CA	213-831-2331
idland-Ross Corp Midtex Div	
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eleadyne Solid State Div Teledyne Relays	
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ROMAT CORP MOUNTAINIDE NJ	201-232-4260
ADV PG 391	
LARE DIV GENERAL INSTRUMENT CORP	
CHICAGO IL	312-262-7700
ADV PG 397	
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
LECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
ADV PG 393	
UJITSU COMPONENTS OF AMERICA INC	
SANTA CLARA CA	408-727-1700
ADV PG 395	
ASCO COMPONENTS INC	
BELLROSE VILLAGE NY	516-328-9292
ADV PG 392	
IT COMPONENTS DIV SANTA ANA CA	714-836-0351
ADV PG 392	
AGNECRAFT ELECTRIC CO	
NORTHBROOK IL	312-564-8800
ADV PG 391	
EEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
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ADV PG 399	
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merican Zettler Inc Irvine CA	714-660-1670
lritrus Corp Minato-ku Tokyo Japan	03-446-1111
romat Corp Mountaintide NJ	201-232-4260
loxcom Corp Wheeling IL	312-520-8010
lare Div General Instrument Corp Chicago IL	312-262-7700
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lectronic Equipment Co Ltd Hempstead NY	516-538-5510
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Hillsboro, Oregon 97123
(503) 640-6000, TWX 910-460-2203

PENNSYLVANIA

Pioneer/Delaware Valley
261 Gibraltar Road
Horsham, Pennsylvania 19044
(215) 674-4000, TWX 510-665-6178

Pioneer/Pittsburgh

259 Kappa Drive
Pittsburgh, Pennsylvania 15238
(412) 782-2300, TWX 710-795-3122

Time/Mid Atlantic

600 Clark Avenue
King of Prussia, Pennsylvania 19046
(215) 337-0900
TLX 845317

TEXAS

Milgray/Dallas
1780 Dallas Parkway
Suite 105
Dallas, Texas 75248
(214) 248-1603

Pioneer/Austin

9801 Burnet Road
Austin, Texas 78758
(512) 835-4000
TWX 910-874-1323

Pioneer/Dallas

2553 West
Dallas, Texas 75240
(214) 386-7300
TWX 910-860-5563

Pioneer/Houston

5853 West
Houston, Texas 77036
(713) 988-5555
TWX 910-881-1606

Time/Dallas

2210 Hulton Drive
Suite 101
Carrollton, Texas 75006
(214) 241-7441

Wyle/Austin

2120 W. Braker Lane
Suite F
Austin, Texas 78758
(512) 834-9957

Magnecraft Electric Co Northbrook IL	312-564-8800
Master Electronic Controls Los Angeles CA	213-452-1336
Midland-Ross Corp Midtex Div North Mankato MN	507-625-6521
NEC America Inc Melville NY	516-753-7000
Olympic Controls Corp Elgin IL	312-742-3566
Omron Electronics Inc Schaumburg IL	312-843-7900
Original Electric Mfg Co Inc Middlesex NJ	201-271-5770
Peerless Radio Corp Lynbrook NY	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN	312-386-1000
Relays Inc New York NY	212-873-4500
Sager Hingham MA	617-749-6700
Schrack North America Inc Elmsford NY	914-592-1305
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sigma Instruments Inc Switching Div Braintree MA	617-843-5000
Stantel Components Corp Schaumburg IL	312-490-7150
Stetron International Inc Buffalo NY	716-854-3443
Teledyne Relays Hawthorne CA	213-777-0077
Theta-J Corp Wakefield MA	617-246-4000
T M Systems Inc Bridgeport CT	203-366-4571
Universal Relay Corp New York NY	212-925-6900

RELAYS—THERMAL

ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
CLARE DIV GENERAL INSTRUMENT CORP CHICAGO IL	312-262-7700
ADV PG 397	
ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
ELECTRONIC EQUIPMENT CO LTD HEMPSTEAD NY	516-538-5510
ADV PG 393	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Allen-Bradley Co Milwaukee WI	414-382-2000
Amperite Co Inc Union City NJ	201-864-9503
Clare Div General Instrument Corp Chicago IL	312-262-7700
Coto Corp Providence RI	401-943-2686
Crouse-Hinds Co Syracuse NY	315-477-7000
Electric Switches Inc Los Angeles CA	213-660-1310
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
E-T-A Circuit Breakers Chicago IL	312-647-8303
Histar Corp New York NY	212-679-2706
Idec Izumi Corp Osaka Japan	81-6-2005530
Jaico Products Jaidinger Mfg Co Chicago IL	312-421-1090
Jettron Products Inc East Hanover NJ	201-887-0571
Master Electronic Controls Los Angeles CA	213-452-1336
Peerless Radio Corp Lynbrook NY	516-593-2121
Princo Instruments Inc Southampton PA	215-355-1500
Ripley Co Inc Cromwell CT	203-635-2200
Sager Hingham MA	617-749-6700
Square D Co Palatine IL	312-397-8600
Struthers-Dunn Inc Pitman NJ	609-589-7500
Technar Inc Arcadia CA	818-447-1187
Universal Relay Corp New York NY	212-925-6900
Wabash Electrical Components Group Huntington IN	219-356-8300

RELAYS—TIME-DELAY

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AROMAT CORP MOUNTAINSIDE NJ	201-232-4260
ADV PG 391	
ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
ELECTRONIC EQUIPMENT CO LTD HEMPSTEAD NY	516-538-5510
ADV PG 393	
ISKRA ELECTRONICS INC FARMINGDALE NY	516-753-0400
MAGNECRAFT ELECTRIC CO NORTHBROOK IL	312-564-8800
ADV PG 391	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SOLID STATE ELECTRONICS CORP NORTHBRIDGE CA	818-993-8257
TELEDYNE RELAYS HAWTHORNE CA	213-777-0077
ADV PG 399	
AEG Corporation Somerville NJ	201-722-9800
Air-O-Tronics Div Trush Inc Cazenovia NY	315-655-2387
Amerace Corp Hackettstown NJ	201-852-1122
American Control Prods Div Precision Timer Co Inc Westbrook CT	203-399-6253
Amperite Co Inc Union City NJ	201-864-9503
Applied Electro Technology Int Santa Ana CA	714-556-6570
Aromat Corp Mountainside NJ	201-232-4260
Artisan Electronics Corp Parsippany NJ	201-887-7100
Associates Electronics & Mfg Corp Upper Montclair NJ	201-783-7800
Automatic Switch Co Florham Park NJ	201-966-2000
Automatic Timing & Controls Co King of Prussia PA	800-441-8245
Autronics Corp Arcadia CA	818-445-5470
Babcock Inc Orange CA	714-633-3700
Bristol Saybrook Co Div Pratt-Read Corp Old Saybrook CT	203-388-3414
Computer Components Inc Pelham NY	914-738-1611
Cornell-Dublier Electronics Wayne NJ	201-256-2000
Crouse-Hinds Co Syracuse NY	315-477-7000
Dataproducts Corp Woodland Hills CA	818-887-8000
Detroit Controls Div Detroit Corp Milwaukee WI	414-671-6800
Diversified Electronics Inc Evansville IN	800-874-0619
Douglas Randall Div Pawcatuck CT	203-599-2075
Durakool Inc Elkhart IN	219-264-1116
Eagle Signal Controls Div Wickes Mfg Co Austin TX	512-837-8300

Eaton Corp/Cutler-Hammer Products Milwaukee WI	414-449-6000
Elec Spec Corp Vancouver WA	206-574-5000
Electric Switches Inc Los Angeles CA	213-660-1310
Elec-Trol Inc Saugus CA	805-252-8330
Electromatic Controls Corp Hoffman Estates IL	312-882-5757
Electromatic Equipment Co Inc Cedarhurst NY	516-295-4300
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Heinemann Electric Co Lawrenceville NJ	609-882-4800
Histar Corp New York NY	212-679-2706
Idec Izumi Corp Osaka Japan	81-6-2005530
Instrumentation & Control Systems Inc Addison IL	312-543-6200
ISKRA Electronics Inc Farmingdale NY	516-753-0400
Jaico Products Jaidinger Mfg Co Chicago IL	312-421-1090
Jettron Products Inc East Hanover NJ	201-887-0571
Klockner-Moeller Natick MA	617-655-1910
Lake Shore Electric Corp Bedford OH	216-232-0200
LaMarche Mfg Co Des Plaines IL	312-299-1188
Leach Corp Control Products Div Buena Park CA	714-739-0770
Leach Corp Relay Div Los Angeles CA	213-232-8221
Logitek Inc Ronkonkoma NY	516-467-4200
Macromatic Inc Chicago IL	312-286-7977
Magnecraft Electric Co Northbrook IL	312-564-8800
Master Electronic Controls Los Angeles CA	213-452-1336
MEKontrol Inc Northboro MA	617-393-2451
Midland-Ross Corp Midtex Div North Mankato MN	507-625-6521
MKC Electronics Corp Kansas City KS	913-371-1351
Mountain West Alarm Supply Co Phoenix AZ	602-263-8831
Omron Electronics Inc Schaumburg IL	312-843-7900
Original Electric Mfg Co Inc Middlesex NJ	201-271-5770
Parko Electronics Co Inc Irvine CA	714-660-8014
Peerless Radio Corp Lynbrook NY	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN	812-386-1000
PPM Inc Cleveland OH	216-292-6006
Precision Electronics Inc Copiague NY	516-842-4900
Projects Unlimited Inc Dayton OH	513-890-1918
Relays Inc New York NY	212-873-4500
Ripley Co Inc Cromwell CT	203-635-2200
Sager Hingham MA	617-749-6700
Scientific Technology Inc Mtn View CA	415-965-0910
Solid State Electronics Corp Northridge CA	818-993-8257
SPC Technology Bensenville IL	312-766-6711
Square D Co Palatine IL	312-397-2600
SSAC Inc Liverpool NY	315-622-1000
Stancor Products/Hamilton Standard Controls Logansport IN	219-722-2244
Struthers-Dunn Inc Pitman NJ	609-589-7500
Syracuse Electronics Syracuse NY	315-488-4911
Teledyne Relays Hawthorne CA	213-777-0077
Therm-O-Disc Inc Mansfield OH	419-756-5911
Timeco Inc Huntington WV	304-523-5149
Time Mark Corp Tulsa OK	918-438-1220
Universal Relay Corp New York NY	212-925-6900
Vanguard Relay Corp Warwick RI	401-732-0700
Ward Leonard Electric Co Mt Vernon NY	914-664-1000
Wilmar Electronics Inc Torrance CA	213-326-6668

RELAYS—VACUUM CONTACT

AEG CORPORATION SOMERVILLE NJ	201-722-9800
CLARE DIV GENERAL INSTRUMENT CORP CHICAGO IL	312-262-7700
ADV PG 397	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SURCOM ASSOC INC OCEANSIDE CA	619-722-6162
ADV PG 75	
AEG Corporation Somerville NJ	201-722-9800
Clare Div General Instrument Corp Chicago IL	312-262-7700
Computer Components Inc Pelham NY	914-738-1611
Dow-Key Microwave Corp Carpinteria CA	805-684-0427
Elmac Div Varian Associates San Carlos CA	415-592-1221
GTE Lighting Products Danvers MA	617-777-1900
Histar Corp New York NY	212-679-2706
Jennings Div FL Industries San Jose CA	408-292-4025
Klovac Corp Santa Barbara CA	805-684-4560
Master Electronic Controls Los Angeles CA	213-452-1336
Peerless Radio Corp Lynbrook NY	516-593-2121
Ross Engineering Corp Campbell CA	408-377-4621
Sager Hingham MA	617-749-6700
Struthers-Dunn Inc Pitman NJ	609-589-7500
Surcom Assoc Inc Oceanside CA	619-722-6162
Universal Relay Corp New York NY	212-925-6900
Wabash Electrical Components Group Huntington IN	219-356-8300

RELAY SWITCHING MATRIXES

CLARE DIV GENERAL INSTRUMENT CORP CHICAGO IL	312-262-7700
ADV PG 397	
FUJITSU COMPONENTS OF AMERICA INC SANTA CLARA CA	408-727-1700
ADV PG 395	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
A D Data Systems Inc Rochester NY	716-334-9649
Aiken Advanced Sys Div Amstar Tech Prods Inc Alexandria VA	703-370-0900
Alaun Engineering Montrose CA	818-957-0618
Applied Research Inc Plainville NY	516-349-9200
Clare Div General Instrument Corp Chicago IL	312-262-7700
Computer Components Inc Pelham NY	914-738-1611
Cytec Corp Rochester NY	716-381-4740
E-H Electronics Inc Fremont CA	415-651-2340
Electrospan Systems Inc Richardson TX	214-783-2004
Elxor Associates Morris Plains NJ	201-299-1615
Fifth Dimension Inc Trenton NJ	609-393-8350
The Foxboro Co Foxboro MA	617-543-8750

Fujitsu Component of America Inc Lake Bluff IL	312-295-26
Fujitsu Components of America Inc Santa Clara CA	408-727-1700
H & L Instruments Burlingame CA	415-342-7800
Information Transfer Industrial Inc Holcomb NY	716-657-7000
Jennings Div FL Industries San Jose CA	408-292-4025
Keithley Instruments Inc Cleveland OH	216-248-0400
Logus Mfg Corp Deer Park NY	516-242-5900
Lorch Electronics Corp Englewood NJ	201-569-8200
Marcel Switch Co Upland CA	714-982-8900
Master Electronic Controls Los Angeles CA	213-452-1336
Matrix Systems Corp Calabasas CA	818-992-6700
MKC Electronics Corp Kansas City KS	913-371-1351
Peerless Radio Corp Lynbrook NY	516-593-2121
Protech Audio Corp St James NY	516-593-2121
Racal-Dana Instruments Inc Irvine CA	714-859-8900
Schrack North America Inc Elmsford NY	914-592-1305
T-Bar Inc Wilton CT	203-834-8200
Teledyne Microelectronics Los Angeles CA	213-870-9800

RELAY SYSTEMS (COMMUNICATIONS NETWORKS)

See Communication Systems; Microwave

Systems

RELIEFS—STRAIN

See Strain Reliefs

REMOTE CONTROLS

See Controls—Remote; Receivers, Radio

Communications—Telemetry & Control;

Transmitters, Radio Communications—Telemetry & Control; TV Transmitter Controls

RENTALS—TEST EQUIPMENT

See Test Equipment Rental

REPAIR STATIONS

See Printed Circuit Repair Stations

REPEATER SERVOS

See Servos

REPEATERS, LINE—DATA & CODED VOICE

ADC Telecommunications Minneapolis MN	612-835-6800
Dataprobe Inc Palisades Park NJ	201-947-9500
Digital Equipment Corp Maynard MA	617-897-5111
Dowty RFL Industries Inc Commun Boonton NJ	201-334-3100
Excelan Inc San Jose CA	408-434-2300
I T I Electronics Inc Fairfield NJ	201-882-6400
Tienet Inc Boulder CO	303-444-2600
T M Systems Inc Bridgeport CT	203-366-4571
Versitron Div Keene Corp Washington DC	202-722-8600

REPEATERS, LINE—VIDEO

Betatronics Inc Lincolnwood IL	312-676-1740
Circuit Technology Inc Farmingdale NY	516-293-8668

REPEATERS, LINE—VOICE

LEAR SIEGLER INC ELECTRONIC INSTRUMENTATION DIV ANAHEIM CA	714-774-1011
Conklin Instrument Corp Pleasant Valley NY	914-635-2130
General Aviation Electronics Inc Indianapolis IN	317-262-2000
I T I Electronics Inc Fairfield NJ	201-882-6400
Lear Siegler Inc Santa Monica CA	213-452-5444
Lear Siegler Inc Electronic Instrumentation Div Anaheim CA	714-774-1011
Standard Communications Corp Los Angeles CA	213-532-5300
T M Systems Inc Bridgeport CT	203-366-4571

RESINS

See Adhesives; Coating Compounds; Plastic

Listings; Potting Compounds

RESISTANCE INSTRUMENTS

See Bridges; Comparators; Decade Boxes;

Ohmmeters; Standards; Testers; Thermometers

RESISTOR BOARDS

See Boards—Capacitor or Resistor

RESISTOR FORMS

CD COMPONENTS INC MANCHESTER NH.....	603-669-0054
ADV PG 410	
PERIOR TECHNICAL CERAMICS CORP ST ALBANS VT.....	802-527-7726
ADV PG 81	
ational Moldite Co Newark NJ.....	201-589-6860
elcom Industries Inc Farmingdale NY.....	516-249-7262
CD Components Inc Manchester NH.....	603-669-0054
ss Co Milton Southampton PA.....	215-355-0200
perior Technical Ceramics Corp St Albans VT.....	802-527-7726

RESISTOR MANUFACTURING EQUIPMENT

See Machines; Silk Screen Printing Equipment

See Also Production Equipment Reference List

RESISTOR MATERIALS

See Silk Screen Inks; Wire—Resistance

See Also Materials Reference List

RESISTOR NETWORKS—THICK FILM, DUAL-IN-LINE PACKAGE

AC ELECTRONICS AN ECHLIN CO INDEPENDENCE KS.....	316-331-1000
LEN-BRADLEY CO MILWAUKEE WI.....	414-382-2000
ADV PG 401	
MO ELECTRONICS INC PHILADELPHIA PA.....	215-698-4000
ADV PG Green Pages	
LE ELECTRONICS INC EL PASO DIV EL PASO TX.....	915-592-3253
ADV PGS 402, 403	
TEK MICROSYSTEMS INC LOS GATOS CA.....	408-395-2300
TERNATIONAL COMPONENTS CORP MELVILLE NY.....	516-293-1500
RO OHM CORP DUARTE CA.....	818-357-5377
ADV PG 408	
ORTHWEST MICROCIRCUITS INC CORVALLIS OR.....	503-753-8242
ERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
ONICS INC TYNGSBORO MA.....	617-649-7501
CD COMPONENTS INC MANCHESTER NH.....	603-669-0054
ADV PG 410	
GER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
ELLEY-RAGON INC ST PAUL MN.....	612-542-2828
AC Electronics an Echlin Co	
ndependence KS.....	316-331-1000
en-Bradley Co Milwaukee WI.....	414-382-2000
no Electronics Inc Philadelphia PA.....	215-698-4000
tekmicrosystems Deerfield Beach FL.....	305-421-8450
ckman Industrial Corp Brea CA.....	714-871-4848
li-Tronics Corp Addison IL.....	312-543-7777
I-R Inc Santa Monica CA.....	213-450-1761
ntalrab Inc A North American Philips Co	
West Lafayette IN.....	317-463-2536
S Corp Elkhart IN.....	219-293-7511
S Corp Berne Div Berne IN.....	219-589-3111
S Microelectronics Inc West Lafayette IN.....	317-463-2565
le Electronics Inc El Paso Div El Paso TX.....	915-592-3253
le Electronics Ltd Scarborough ON.....	416-759-5631
ec Industries Inc Daytona Beach FL.....	904-253-5328
gelhard Industries Iselin NJ.....	201-321-5900
ronmental Communications Inc	
Costa Mesa CA.....	714-557-7800
itek Electronics Inc Ogdensburg NY.....	613-592-2240
tyne Electronics Co Bridgeport CT.....	203-367-6431
mbie Industries, Charles T Delanco NJ.....	609-461-1900
rdos Corp Bloomfield NJ.....	201-743-6800
brilronics Inc Niagara Falls NY.....	716-731-9080
tek Microsystems Inc Los Gatos CA.....	408-395-2300
ernational Components Corp Melville NY.....	516-293-1500
ernational Sensor Systems Inc Aurora NE.....	402-694-6111
li Electronics Inc Whippary NJ.....	201-887-8100
ocera International Inc San Diego CA.....	619-454-1800
ocera Intl Inc Elctn Comps Group	
San Diego CA.....	619-454-1800
ro Ohm Corp Duarte CA.....	818-357-5377
roplex Inc Anaheim CA.....	714-979-8833
li-Systems Inc No Attleboro MA.....	215-534-4985
yagawa USA Corp Torrance CA.....	310-534-4985
thwest Microcircuits Inc Corvallis OR.....	503-753-8242
itek Inc Niagara Falls NY.....	716-283-4025
ccom Redmond WA.....	206-883-9200
nasonic Co Electronic Components Div	
Saeacus NJ.....	201-348-5200
rex Corp Methuen MA.....	617-685-4341
erless Radio Corp Lynbrook NY.....	516-593-2121
onics Inc Tyngsboro MA.....	617-649-7501
ier International Corp Mt Prospect IL.....	312-640-8300
D Components Inc Manchester NH.....	603-669-0054
ger Hingham MA.....	617-749-6700
elley-Ragon Inc St Paul MN.....	612-542-2828
rague Electric Co Lexington MA.....	617-862-5500
te of the Art Inc State College PA.....	814-355-8004

Techno-Components Corp Van Nuys CA.....	818-781-1642
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Thickfilm Intl Indian Head MD.....	301-375-8666
TRW Resistive Products Div Philadelphia PA.....	215-922-8900
Victoreen Inc Cleveland OH.....	216-795-8200
Zenith Electronics Corp Rauland Div Melrose Park IL.....	312-345-4700

RESISTOR NETWORKS—THICK FILM, SINGLE-IN-LINE PACKAGE

ACC ELECTRONICS AN ECHLIN CO INDEPENDENCE KS.....	316-331-1000
ALLEN-BRADLEY CO MILWAUKEE WI.....	414-382-2000
ADV PG 401	
ALMO ELECTRONICS INC PHILADELPHIA PA.....	215-698-4000
ADV PG Green Pages	
ALPS ELECTRIC (USA) INC ROCKVILLE CENTRE NY.....	516-766-3636
ADV PG 111	
DALE ELECTRONICS INC EL PASO DIV EL PASO TX.....	915-592-3253
ADV PGS 402, 403	
HYTEK MICROSYSTEMS INC LOS GATOS CA.....	408-395-2300
MICRO OHM CORP DUARTE CA.....	818-357-5377
ADV PG 408	
MOUSER ELECTRONICS MANSFIELD TX.....	817-483-0165
MURATA ERIE NORTH AMERICA INC SMYRNA GA.....	404-436-1300
ADV PG 401	
NORTHWEST MICROCIRCUITS INC CORVALLIS OR.....	503-753-8242
PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
PICONICS INC TYNGSBORO MA.....	617-649-7501
RCD COMPONENTS INC MANCHESTER NH.....	603-669-0054
ADV PG 410	
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
SHELLEY-RAGON INC ST PAUL MN.....	612-542-2828
ACC Electronics an Echlin Co	
Independence KS.....	316-331-1000
Allen-Bradley Co Milwaukee WI.....	414-382-2000
Almo Electronics Inc Philadelphia PA.....	215-698-4000
Alps Electric (USA) Inc Rockville Centre NY.....	516-766-3636
American Microsignal Corp Stanton CA.....	714-761-1222
American Plasticraft Co Chicago IL.....	312-722-7727
Aptek Microsystems Deerfield Beach FL.....	305-421-8450
Beckman Industrial Corp Brea CA.....	714-871-4848
Bel-Tronics Corp Addison IL.....	312-543-7777
Brel Intl Components Sarasota FL.....	813-355-9791
Caddock Electronics Inc Riverside CA.....	714-788-1700
Cal-R Inc Santa Monica CA.....	213-450-1761
Capar Components Corp Farmingdale NY.....	516-454-6390
Centralab Inc A North American Philips Co	
West Lafayette IN.....	317-463-2536
Corning Glass Works, Corning Elctns/Components	
Corning NY.....	607-974-9000
CTS Corp Elkhart IN.....	219-293-7511
CTS Corp Berne Div Berne IN.....	219-589-3111
CTS Microelectronics Inc West Lafayette IN.....	317-463-2565
Dale Electronics Inc El Paso Div El Paso TX.....	915-592-3253
Dale Electronics Ltd Scarborough ON.....	416-759-5631
Engelhard Industries Iselin NJ.....	201-321-5900
Environmental Communications Inc	
Costa Mesa CA.....	714-557-7800
Epitex Electronics Inc Ogdensburg NY.....	613-592-2240
Gordos Corp Bloomfield NJ.....	201-743-6800
Gordos Arkansas Inc Rogers AR.....	501-636-5000
Hybrilronics Inc Niagara Falls NY.....	716-731-9080
Hytek Microsystems Intl Los Gatos CA.....	408-395-2300
International Manufacturing Services	
Portsmouth RI.....	401-683-9700
International Sensor Systems Inc Aurora NE.....	402-694-6111
KDI Electronics Inc Whippary NJ.....	201-887-8100
KOA Speer Electronics Inc Bradford PA.....	814-362-5536
Kyocera International Inc San Diego CA.....	619-454-1800
Kyocera Intl Inc Elctn Comps Group	
San Diego CA.....	619-454-1800
Mepco/Centralab Inc Jupiter FL.....	305-942-3201
Micro Ohm Corp Duarte CA.....	818-357-5377
Microplex Inc Anaheim CA.....	714-979-8833
Miyagawa USA Corp Torrance CA.....	213-534-4985
Mouser Electronics Mansfield TX.....	817-483-0165
Murata Eri North America Inc Smyrna GA.....	404-436-1300
Northwest Microcircuits Inc Corvallis OR.....	503-753-8242
Ohmtek Inc Niagara Falls NY.....	716-283-4025
Pacom Redmond WA.....	206-883-9200
Panasonic Co Electronic Components Div	
Saeacus NJ.....	201-348-5200
Parflex Corp Methuen MA.....	617-685-4341
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Piconics Inc Tyngsboro MA.....	617-649-7501
Pher International Corp Mt Prospect IL.....	312-640-8300
Precision Resistive Products Inc Medapolis IA.....	319-394-9131
RCD Components Inc Manchester NH.....	603-669-0054
Sager Hingham MA.....	617-749-6700
Shelley-Ragon Inc St Paul MN.....	612-542-2828
Sprague Electric Co Lexington MA.....	617-862-5500
State of the Art Inc State College PA.....	814-355-8004
Stetron International Inc Buffalo NY.....	716-854-3443
Techno-Components Corp Van Nuys CA.....	818-781-1642
Tektron Micro Electronics Inc	
Linthicum Hts MD.....	301-850-4200
Teledyne Microelectronics Los Angeles CA.....	213-870-9831
Thickfilm Intl Indian Head MD.....	301-375-8666
TRW Resistive Products Div Philadelphia PA.....	215-922-8900
Ultronic Inc Grand Junction CO.....	303-242-0810
Victoreen Inc Cleveland OH.....	216-795-8200
Zenith Electronics Corp Rauland Div Melrose Park IL.....	312-345-4700

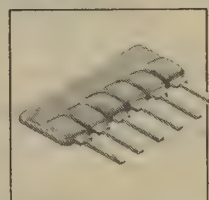
RESISTOR NETWORKS CERMET FILM THIN FILM ALLEN-BRADLEY QUALITY

Select from a complete range of single and dual in-line packages. Solid ceramic body with unique V-groove construction. DIP configurations also available with MIL-R-83401 qualification. Wide variety of thin-film standard and custom DIP circuits (molded and ceramic) as well as chip networks and hybrid network substrates.



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El Paso, Texas 79935

Resistor Networks



- SIP Packages
- 1/8 & 1/4 Watt
- To 16 resistors per package
- X, Y and Z circuits
- $\pm 2\%$ to $\pm 20\%$ Tol.
- 100 Ω to 680 K Ω
- RC Networks offered

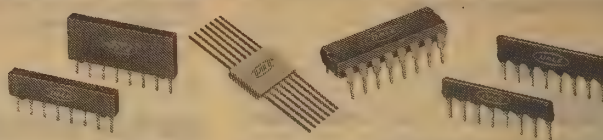
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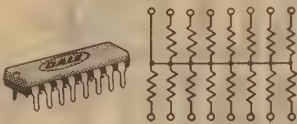
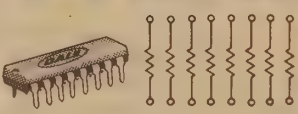
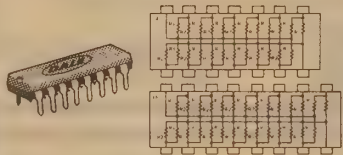
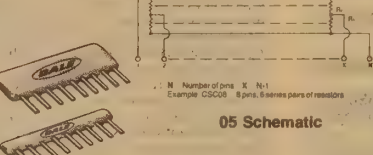
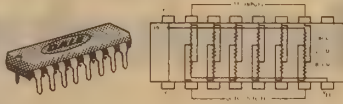
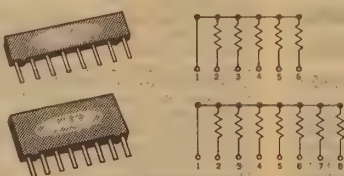
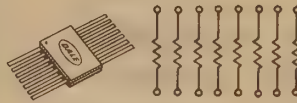
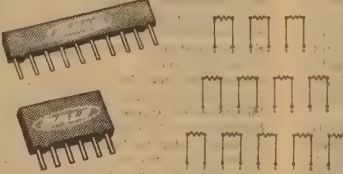
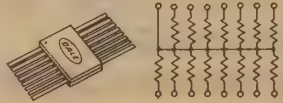
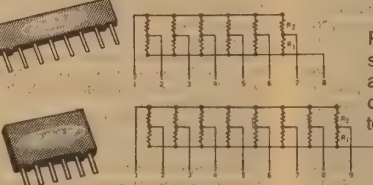
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	13 or 15 resistors with one common pin	MDP1401 MDP1601		3 thru 11 resistors with pin one common	CSC04A01 thru CSC10A01 .195" aboveboard Coated
	7 or 8 isolated resistors. Commonly used in pull-up, pull-down, balancing, current limiting and line termination.	MDP1403 MDP1603		2 thru 6 isolated resistors	CSC04A03 thru CSC10A03 .195" aboveboard Coated
	TTL dual-line terminator; pulse squaring	MDP1405 MDP1605		TTL dual-line termination and pulse squaring; 2 thru 10 series pairs of resistors	CSC04A05 thru CSC10A05 .195" aboveboard Coated
	TTL to ECL translator	MDP1645		5, 7 or 9 resistors with pin one common	MSP06A01 MSP08A01 MSP10A01 .195" aboveboard Molded
FLAT PACKS					
	7 or 8 isolated resistors. Commonly used in pull-up, pull-down, balancing, current limiting and line termination.	DFP1401 DFP1601 Gold plated leads DFP1411 DFP1611 Tin-lead plated leads		3, 4 or 5 isolated resistors	MSP06A03 MSP08A03 MSP10A03 .195" aboveboard Molded
	13 or 15 resistors with one common pin	DFP1402 DFP1602 Gold plated leads DFP1412 DFP1612 Tin-lead plated leads		Pulse squaring and TTL dual-line terminators	MSP06A05 MSP08A05 MSP10A05 .195" aboveboard Molded
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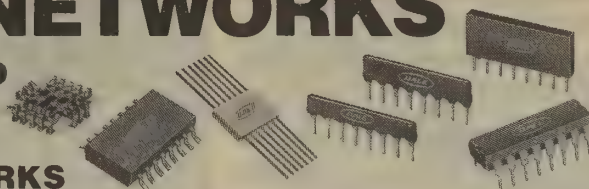
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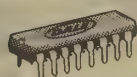
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- THICK FILM — MIL-R-83401 QUALIFIED
- SURFACE MOUNTED DEVICES
- RESISTOR/CAPACITOR NETWORKS
- CHIP RESISTORS • THIN FILM NETWORKS



DUAL-IN-LINE PACKAGES — MIL-R-83401

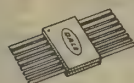
TYPICAL SCHEMATIC DESCRIPTION DALE MODELS



Commonly used in pull-up, pull-down, balancing, current limiting and line termination.

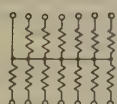
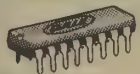
7 or 8 isolated resistors

MDM14-03
MDM16-03



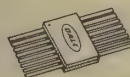
7 isolated resistors

FLAT PACK
DFM14-01
Gold plated leads
DFM14-11
Tin-lead plated leads



13 or 15 resistors with one common pin

MDM14-01
MDM16-01

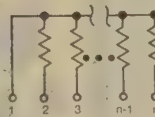
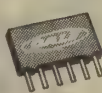


13 resistors with one common pin

FLAT PACK
DFM14-02
Gold plated leads
DFM14-12
Tin-lead plated leads

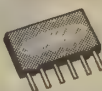
SINGLE-IN-LINE PACKAGES — MIL-R-83401

TYPICAL SCHEMATIC DESCRIPTION DALE MODELS



5, 7 or 9 resistors with one common pin

MSM06X01
MSM08X01
MSM10X01
X="A" profile (.195")
"C" profile (.350")



3, 4 or 5 isolated resistors. Commonly used in pull-up, pull-down, balancing and line termination

MSM06X03
MSM08X03
MSM10X03
X="A" profile (.195")
"C" profile (.350")

SURFACE MOUNTED DEVICES

Type LCCC. Ceramic chip carrier style available in 01 schematic (15 or 23 resistors with one common lead) or 05 schematic (TTL dual-line terminator, 7 pairs of resistors). Seated height .090"; lead spacing .050".

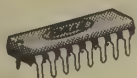
Type SOMC. Small outline molded DIP style available in 01 schematic (13 or 15 resistors with one common lead), 03 schematic (7 or 8 isolated resistors) or 05 schematic (TTL dual-line terminator, 12 or 14 pairs of resistors).

For additional information on surface mounted thick film resistor networks, contact Dale's El Paso facility at the address below.

RESISTOR/CAPACITOR NETWORKS

DUAL-IN-LINE, Molded

Type MDRC. Available as a -2.0 or -5.2 volt ECL terminator with 11 resistors (MDRC1641) or 12 resistors (MDRC1642) and a .01 microfarad decoupling capacitor. Also available as a Thevenin equivalent terminator (MDRC1643) containing four pairs of series resistors and a .01 microfarad decoupling capacitor. .190" maximum seated height.



TYPICAL SCHEMATIC

MDRC1641
MDRC1642
MDRC1643

SINGLE-IN-LINE, Coated

Type CSRC. Available as a 10K (CSRC-08C20) or 100K (CSRC-10C21) ECL terminator network. Also available as a line terminator network (CSRC-XXC30) in 6 through 12 pin sizes. .350" seated height. Highly stable thick film resistors. XR7 type capacitor for ECL terminator. NPO or XR7 capacitors for line terminator.



TYPICAL SCHEMATIC

CSRC-08C20
CSRC-10C20
CSRC-XXC30

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- Commercial styles including standard .126" x .063" size in 1% tolerance
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- Custom sizes for special applications

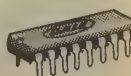


(Produced in Norfolk, Nebraska. See address below.)

THIN FILM NETWORKS

DESCRIPTION

Highly stable nichrome film resistors in rugged molded case. Choice of 13 or 15 resistors with one common pin (TDP1401, TDP1601) or 7 or 8 isolated resistors (TDP1403, TDP1603). Also available in chip resistors including styles for chip carriers as well as custom packaging.



(Produced in Norfolk, Nebraska. See address below.)

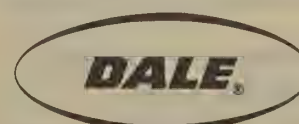
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THIN FILM NETWORKS and CHIP RESISTORS:

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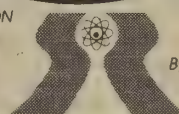
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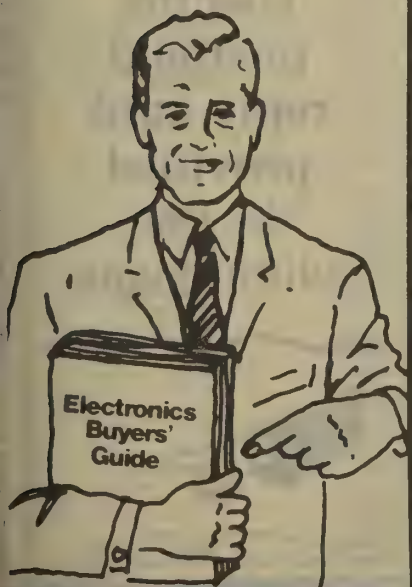
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	Wirewound Power Mil R-18546 Chassis Mount	5 to 50	.05 to 200K	±5 to +90	.025 to 5	6
	Wirewound Power "Bathtub" Type	2 to 50	.01-40K	±300 to ±800	5 & 10	8-10
	Metal Film RN50, 55, 60 65 & 70	.1 to 1	.5 to 10M	+25 to +200	.1 to 2	Stock-8
	Thick Film Rectangular Chip RC Series	1/32 to 1/8	10 to 2.2M	-600 to +600	2, 5 & 10	6-8
	Metal Oxide	.5 to 7	.2 to 240K	±200	2 & 5	Stock-8
	Metal Glaze	.25 to 2	1M to 2000M	±100	1, 2, & 5	Stock-8
	Carbon Film RC05, RC07, RC20 RC32, RC42	.125 to 2	.5 to 22M	-200 to -800	2 & 5	Stock-8
	Metal Film LPTC-25 Temperature Sensitive Positive - Linear	.25	5 to 15K	+2500 to ±4000	2 & 5	6-8
	Sip Networks Isolated, Common, Series	.06 & .125 Per Element	10 to 1M	±300 & ±100	2, 5 & 10	10-12

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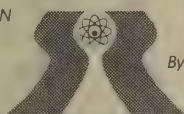
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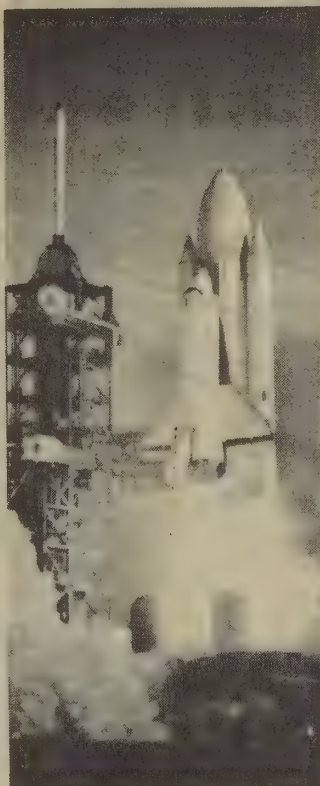
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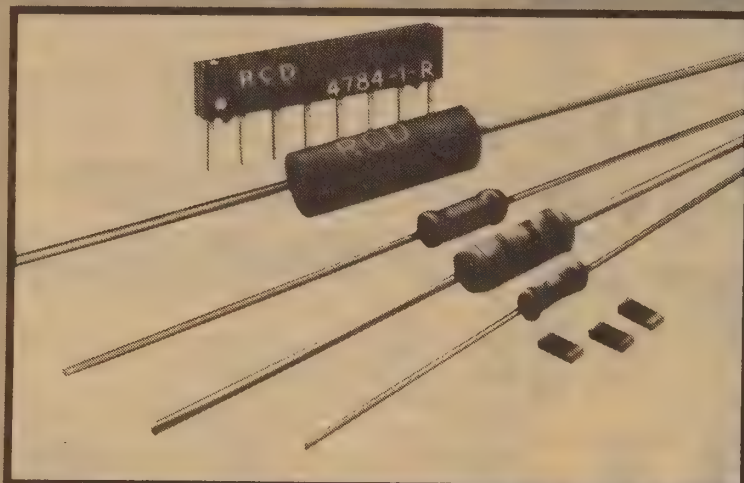
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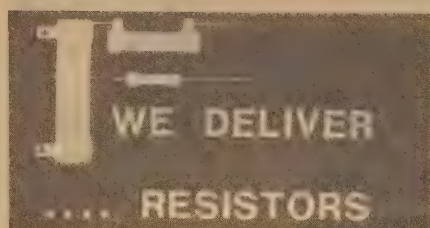
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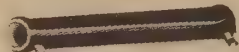
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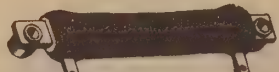
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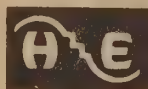
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Peerless Radio Corp Lynbrook NY.....	516-593-2121
RCD Components Inc Manchester NH.....	603-669-0054
Shelley-Ragon Inc St Paul MN.....	612-542-2828
Soliton Microwave Connector Div	
Port Salerno FL.....	305-287-5000

RESISTORS—FUSE

CAPCO/LECTROHM	
GRAND JUNCTION CO.....	303-243-8753
DALE ELECTRONICS INC COLUMBUS DIV	
COLUMBUS NE.....	402-564-3131
ADV PG 411	
MICRO OHM CORP DUARTE CA	818-357-5377
ADV PG 408	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
PHILIPS ECG INC WALTHAM MA	617-890-6107
RCD COMPONENTS INC	
MANCHESTER NH.....	603-669-0054
ADV PG 410	
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
TEL-LABS INC LONDONDERRY NH	603-625-8994
ADV PG 409	
Capco/Lectrohm Grand Junction CO.....	303-243-8753
Colber Corp Irvington NJ.....	201-371-9500
Corning Glass Works, Corning Elctns/Components	
Corning NY.....	607-974-9000
Dale Electronics Inc Columbus Div	
Columbus NE.....	402-564-3131
Gamble Industries, Charles T Delanco NJ.....	609-461-1900
Hamilton-Hall Resistor Corp Milwaukee WI.....	414-273-6460
Hi-Tech Components/Mitsubishi Intl	
New York NY.....	212-605-2600
Kamaya Inc Fort Wayne IN.....	219-489-1515
Kelvin Van Nuys CA.....	818-782-6662
Keystone Carbon Co Thermistor Div	
St Marys PA.....	814-781-1515
KOA Speer Electronics Inc Bradford PA.....	814-362-5555
KRL Electronics Inc Manchester NH.....	603-668-3210
Meissner Industries Dover NJ.....	201-366-1700
Micro Ohm Corp Duarte CA.....	818-357-5377
NTE Electronics Inc Bloomfield NJ.....	201-748-5089
Ohio Carbon Co Cleveland OH.....	216-252-6100
Ohmite Mfg Co Skokie IL.....	312-675-2600
Oneida Electronic Mfg Inc Meadville PA.....	814-336-2125
Paccorn Redmond WA.....	206-883-9200
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Philips ECG Inc Waltham MA.....	617-890-6107
Raychem Corp Menlo Park CA.....	415-361-3300
RCD Components Inc Manchester NH.....	603-669-0054
Shelley-Ragon Inc St Paul MN.....	612-542-2828
Tel-Labs Inc Londonderry NH.....	603-625-8994
TRW Resistive Products Div Philadelphia PA.....	215-922-8900
Workman Electronic Products Inc	
Sarasota FL.....	800-237-6666

RESISTORS—HEAT-SINKING PACKAGES

DALE ELECTRONICS INC COLUMBUS DIV	
COLUMBUS NE.....	402-564-3131
ADV PG 411	
MICRO OHM CORP DUARTE CA	818-357-5377
ADV PG 408	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
RCD COMPONENTS INC	
MANCHESTER NH.....	603-669-0054
ADV PG 410	
SHELLEY-RAGON INC ST PAUL MN	612-542-2828
TEL-LABS INC LONDONDERRY NH	603-625-8994
ADV PG 409	
Caddock Electronics Inc Riverside CA.....	714-788-1700
Cal-R Inc Santa Monica CA.....	213-450-1761
Colber Corp Irvington NJ.....	201-371-9500
Dale Electronics Inc Columbus Div	
Columbus NE.....	402-564-3131
Dale Electronics Ltd Scarborough ON.....	416-759-5631
Gamble Industries, Charles T Delanco NJ.....	609-461-1900
Kelvin Van Nuys CA.....	818-782-6662
Micro Ohm Corp Duarte CA.....	818-357-5377
Milwaukee Resistor Corp Milwaukee WI.....	414-271-9900
Nytronics Components Group Inc	
Darlington SC.....	803-393-5421
Pacific Resistor Co Tarzana CA.....	818-345-7811
Peerless Radio Corp Lynbrook NY.....	516-593-2121
RCD Components Inc Manchester NH.....	603-669-0054
Shelley-Ragon Inc St Paul MN.....	612-542-2828
Soliton Microwave Connector Div	
Port Salerno FL.....	305-287-5000
Tel-Labs Inc Londonderry NH.....	603-625-8994
Ultronix Inc Grand Junction CO.....	303-242-0810
Vishay Resistive Sys Group Div Vishay Intertechnology Inc	
Malvern PA.....	215-644-1300

RESISTORS, VARIABLE

See Potentiometers Listings

RESISTORS, VARIABLE—TEMPERATURE SENSITIVE

APCO/LECTROHM	
GRAND JUNCTION CO	303-243-8753
CRO OHM CORP DUARTE CA	618-357-5377
ADV PG 408	
MEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
ERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
D COMPONENTS INC	
MANCHESTER NH	603-669-0054
ADV PG 410	
RVO INSTRUMENT CORP BARABOO WI	608-356-6623
IELLEY-RAGON INC ST PAUL MN	612-542-2828
ERMOMETRICS INC EDISON NJ	201-287-2870
netek-Rodan Div Anaheim CA	714-630-0081
nadian Thermostats & Control Devices	
Montreal PQ	514-739-3274
pco/Lectrohm Grand Junction CO	303-243-8753
lber Corp Irvington NJ	201-371-9500
S Corp Asheville Div Elkhart IN	219-293-7511
le Electronics Ltd Scarborough ON	416-759-5631
etronic Materials Div Ferro Corp	
Santa Barbara CA	805-968-5000
ble Industries, Charles T Delanco NJ	609-461-1900
E Lighting Products Danvers MA	617-777-1900
raus-Volkert Inc Queens Village NY	718-464-8400
-Cal Engineering El Monte CA	818-444-4000
ystone Carbon Co Thermistor Div	
St Marys PA	814-781-1591
IL Electronics Inc Manchester NH	603-668-3210
ssner Industries Dover NJ	201-366-1700
ro Ohm Corp Duarte CA	818-357-5377
west Components Inc Muskegon MI	616-777-2602
is Resistor Co Los Alamitos CA	213-598-2454
w England Instrument Co Natick MA	617-875-9711
ega Engineering Inc Stamford CT	203-359-1660
erless Radio Corp Lynbrook NY	516-593-2121
ilips Electronic Comps & Matis Div	
Eindhoven Netherlands	040791111
ytham Corp Menlo Park CA	415-361-3333
D Components Inc Manchester NH	603-669-0054
marlus Inc Derby CT	203-735-7405
rvo Instrument Corp Baraboo WI	608-356-6623
elley-Ragon Inc St Paul MN	612-542-2828
io Carborundum Niagara Falls NY	716-278-2521
io Engineered Materials Co	
Niagara Falls NY	716-278-2000
atron International Inc Buffalo NY	716-854-3443
np-Pro Inc Northampton MA	413-584-3165
erm-O-Disc Inc Mansfield OH	419-756-5911
ermometrics Inc Edison NJ	201-287-2870
ickfilm Intl Indian Head MD	301-375-8666
N Resistive Products Div Philadelphia PA	215-922-8900
ronix Inc Grand Junction CO	303-242-0810
nay Resistive Sys Group Div Vishay Intertechnology Inc	
Malvern PA	215-644-1300

RESISTORS, VARIABLE—VOLTAGE SENSITIVE

JNTINGTON ELECTRIC INC	
HUNTINGTON IN	219-356-0778
ADV PG 412	
ERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
D COMPONENTS INC	
MANCHESTER NH	603-669-0054
ADV PG 410	
RVO INSTRUMENT CORP BARABOO WI	608-356-6623
IELLEY-RAGON INC ST PAUL MN	612-542-2828
netek-Rodan Div Anaheim CA	714-630-0081
tatronix Inc Hauppauge NY	516-582-6740
el Intl Components Sarasota FL	813-355-9791
rtier Mfg Corp Bolton MA	617-779-5501
S Corp Asheville Div Elkhart IN	219-293-7511
le Electronics Ltd Scarborough ON	416-759-5631
neral Electric Semiconductor Syracuse NY	315-456-3447
ntington Electric Inc Huntington IN	219-356-0778
IK Controls Inc Newbury Park CA	805-499-7779
aida Development Co Hampton VA	804-723-0785
urey Instrument Corp Chicago IL	312-581-4555
west Components Inc Muskegon MI	616-777-2602
w England Instrument Co Natick MA	617-875-9711
erless Radio Corp Lynbrook NY	516-593-2121
ilips Electronic Comps & Matis Div	
Eindhoven Netherlands	040791111
D Components Inc Manchester NH	603-669-0054
marlus Inc Derby CT	203-735-7405
rvo Instrument Corp Baraboo WI	608-356-6623
elley-Ragon Inc St Paul MN	612-542-2828
tran Digital Atascadero CA	805-466-3209
io Carborundum Niagara Falls NY	716-278-2521
io Engineered Materials Co	
Niagara Falls NY	716-278-2000
atron International Inc Buffalo NY	716-854-3443
ickfilm Intl Indian Head MD	301-375-8666
rtitech Div Veritron Corp Deer Park NY	516-586-5100
shay Resistive Sys Group Div Vishay Intertechnology Inc	
Malvern PA	215-644-1300
aters Mfg Inc Wayland MA	617-358-2777

RESISTORS, VARIABLE—RHEOSTATS

See Rheostats

RESISTORS, VARIABLE—SEMICONDUCTOR

See Varistors

RESISTS

See Photoresists; Solder Resists

RESIST SPINNERS & SPRAYERS

See Photoresist Spinners; Photoresist Sprayers

RESOLVERS

See Synchros

RETAINING RINGS

APM-HEXSEAL CORP ENGLEWOOD NJ	201-569-5700
APM-Hexseal Corp Englewood NJ	201-569-5700
Autosplice Inc Woodside NY	718-429-0500
Auto-Swage Products Inc Shelton CT	203-929-1401
Berg Inc Winfred M East Rockaway NY	516-599-5010
Eaton Corp Engineered Fasteners Div	
Cleveland OH	216-523-5361
Federal Screw Products Inc Chicago IL	312-478-5744
Luke Line Fasteners Beverly NJ	609-387-1166
PIC Design Middlebury CT	203-758-8272
Ramsey Piston Ring Div TRW Automotive Prods Inc	
Manchester MO	314-394-3700
Waldes Truarc Inc Long Island City NY	718-392-3100

RETRACTILE CORDS

See Cords

RF HEATING COILS

See Coils—RF Work

RFI FILTERS

See Filters

RF POWER BRIDGES

See Bridges

RHEOSTATS—INDUSTRIAL (7-1/2-WATTS & UP)

MALLORY COMPONENTS DIV EMHART	
INDIANAPOLIS IN	317-261-1361
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Biddle Instruments-Sensitek Blue Bell PA	215-646-9200
Brel Intl Components Sarasota FL	813-355-9791
E-Systems Memcor Div Huntington IN	219-356-4300
Mallory Components Div Emhart	
Indianapolis IN	317-261-1361
Ohmite Mfg Co Skokie IL	312-675-2600
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Vishay Resistive Sys Group Div Vishay Intertechnology Inc	
Malvern PA	215-644-1300

RIBBON CABLE

See Cables—Flat

RIBBON—LACING

See Cords—Lacing

RINGS

See Collector Rings; O Rings; Retaining Rings;

Slip Rings

RIVETS

KEYSTONE ELECTRONICS CORP	
NEW YORK NY	212-475-4600
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Abscoa Industries Hawthorne CA	213-970-0886
Allmetal Screw Products Co Inc	
Garden City NY	516-222-1200
Armco Middletown OH	800-231-3748
Art Wire/Doduco Parsippany NJ	201-428-4880
Augat/Pylon Co Inc Attleboro Falls MA	617-699-7646
Autosplice Inc Woodside NY	718-429-0500
Auto-Swage Products Inc Shelton CT	203-929-1401
Bigelow Components Corp Springfield NJ	201-467-1200

Cherry Aerospace Fasteners Div Textron Inc	
Santa Ana CA	714-545-5511
Deringer Mfg Co Mundelein IL	312-566-4100
Eico Industries Inc Rockford Div Rockford IL	815-397-5151
Federal Screw Products Inc Chicago IL	312-478-5744
Gries/Dynacast Div Coats & Clark Inc	
Yorktown Hts NY	914-633-8600
Groov-Pin Ridgefield NJ	201-945-6780
Hartwell Corp Placentia CA	714-993-4200
Implex Div National Lock Corp	
Crawfordsville IN	317-362-0800
Keystone Electronics Corp New York NY	212-475-4600
Luke Line Fasteners Beverly NJ	609-387-1166
Milford Rivet & Machine Co Milford CT	203-878-4631
Shokai Far East Ltd Hartsdale NY	914-681-0700
SOS Lighting Devices Div MEMCO	
Philadelphia PA	215-423-7077
Southco Inc Concordville PA	215-459-4000
SPC Technology Bensenville IL	312-766-6711
Stimpson Co Inc Bayport NY	516-472-2000
Teale Machine Co Inc Rochester NY	716-244-6700

ROCHELLE SALT CRYSTALS

See Crystals—Piezoelectric

RODS—GROUNDING

See Grounding Rods

RODS—LASER

See Laser Crystals & Rods

RODS—METAL

See Metal Desired

RODS—PARTS

See Material Desired in Components & Parts

Reference List

ROLLER BEARINGS

See Bearings

ROM PROGRAMMERS

See Programmers—Pulse

ROMS (READ-ONLY MEMORIES)

See ICs Listings; Memories

ROOMS

See Clean Rooms; Chambers

ROTARY JOINTS—COAXIAL

Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Dielectric Commun Unit General Signal	
Raymond ME	207-655-4555
Eastern Microwave Corp Woburn MA	617-935-8600
Mercotec Inc San Diego CA	619-566-2750
Microwave Development Labs Inc Natick MA	617-655-0060
Premier Microwave Corp Port Chester NY	914-939-8900
Sage Laboratories Inc Natick MA	617-653-0844
Scott Engineering Co Olean NY	716-372-5690
Struthers Electronics Corp Farmingdale NY	516-420-9000
Waveline Inc West Caldwell NJ	201-226-9100

ROTARY JOINTS—WAVEGUIDE, MULTICHANNEL

Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Dielectric Commun Unit General Signal	
Raymond ME	207-655-4555
Eastern Microwave Corp Woburn MA	617-935-8600
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
Microwave Development Labs Inc Natick MA	617-655-0060
Premier Laboratories Corp Port Chester NY	914-939-8900
Sage Laboratories Inc Natick MA	617-653-0844
Scott Engineering Co Olean NY	716-372-5690
Waveline Inc West Caldwell NJ	201-226-9100

ROTARY JOINTS—WAVEGUIDE, SINGLE CHANNEL

ALUMINUM DESIGN CORP	
BROOKFIELD IL	312-387-3100
GRAPHITE METALLIZING CORP	
YONKERS NY	914-968-8400
ADV PG 47	

Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
Aluminum Design Corp Brookfield IL	312-387-3100
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Dielectric Commun Unit General Signal	
Raymond ME	207-655-4555
Eastern Microwave Corp Woburn MA	617-935-8600
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Graphite Metallizing Corp Yonkers NY	914-968-8400
Maury Microwave Corp Cucamonga CA	714-987-4715
Microwave Development Labs Inc Natick MA	617-655-0060
Premier Microwave Corp Port Chester NY	914-939-8900
Sage Laboratories Inc Natick MA	617-653-0844
Scott Engineering Co Olean NY	716-372-5690
Struthers Electronics Corp Farmingdale NY	516-420-9000
Waveline Inc West Caldwell NJ	201-226-9100

ROTARY POWER EQUIPMENT

See Dynamotors; Motor Generator Sets; Power

Converters; Power Generators

ROTATORS—ANTENNA

See Antenna Rotators

ROTOR CASTINGS

See Metal Parts—Castings

RUBBERIZED HAIR

See Packaging Materials

RUBBER—PARTS, RODS, SHEETS & TUBING

APM-HEXSEAL CORP ENGLEWOOD NJ	201-569-5700
CONCORD ELECTRONICS CORP	
NEW YORK NY	212-777-6571
GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT	
CLEVELAND OH	216-266-2451
HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
MULTI PRODUCTS INTERNATIONAL	
CEADAR GROVE NJ	201-239-8183
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Abasco Industries Hawthorne CA	213-970-0886
AME Corp Little Falls NJ	201-256-3939
APM-Hexseal Corp Englewood NJ	201-569-5700
Apple Rubber Products Inc Lancaster NY	716-684-6560
Auburn Mfg Co Middletown CT	203-346-6677
Bacon Industries Inc Watertown MA	617-926-2550
Bellofram Corp A Rexnord Co Burlington MA	617-272-2100
Brace Plastics Inc Pittsburgh PA	412-787-2100
Concord Electronics Corp New York NY	212-777-6571
Da/Pro Rubber Inc Tulsa OK	918-258-9386
Fel Pro Inc Skokie IL	312-761-4500
Gen Elec Co Glass & Metallurgical Prods Dept	
Cleveland OH	216-266-2451
Hunter Products Inc Bridgewater NJ	201-526-8440
Kirkhill Rubber Co Brea CA	714-529-4901
Markel Corp Norristown PA	215-272-8960
Mechanical Rubber Products Corp	
Warwick NY	914-986-2271
Meridian Lab Middleton WI	608-836-7571
Minor Rubber Co Inc Bloomfield NJ	201-338-6800
Moxness Products Inc Racine WI	414-554-5050
Multi-Flex Seals Inc Hackensack NJ	201-487-8080
Multi Products International Cedar Grove NJ	201-239-8183
Parker Seal Group Lexington KY	606-269-2351
Shokai Far East Ltd Hartsdale NY	914-681-0700
SPC Technology Bensenville IL	312-766-6711
Technical Specialties Co Inc Spring Valley NY	914-425-9700
Vernay Lab Inc Yellow Springs OH	513-767-7261

RUBBER—RAW MATERIAL

Formulated Resins Inc Greenville RI	401-949-2060
General Electric Co Silicone Prods Div	
Waterford NY	518-237-3330
Hardman Incorporated Belleville NJ	201-751-3000
Kirkhill Rubber Co Brea CA	714-529-4901
Mechanical Rubber Products Corp	
Warwick NY	914-986-2271
Minor Rubber Co Inc Bloomfield NJ	201-338-6800
Multi-Flex Seals Inc Hackensack NJ	201-487-8080
Parker Seal Group Lexington KY	606-269-2351
Vernay Lab Inc Yellow Springs OH	513-767-7261

RUBBER—SILICONE

See Silicone Rubber

RUBIDIUM

See Metals—Alkaline

SALVAGE—PRECIOUS METALS

See Production Services—Metal Recovery

SANDPAPER

See Abrasives

SAPPHIRE—FINISHED PARTS

Atomergic Chemetals Corp Plainview NY	516-349-8800
Crystal Systems Inc Salem MA	617-745-0088
Esco Products Oak Ridge NJ	201-697-3700
General Ruby & Sapphire Corp	
New Port Richey FL	813-849-0638
Meller Co Adolf Providence RI	401-331-3717
Melles Griot Irvine CA	714-556-8200
Moser Jewel Co Perth Amboy NJ	201-442-3434
Quartzite Processing Inc Malden MA	617-322-1380
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Swiss Jewel Co Philadelphia PA	215-925-2867
Valley Design Corp Littleton MA	617-486-8933
Valpey-Fisher Corp Hopkinton MA	617-435-6831
Varian Electron Device Group Palo Alto CA	415-493-4000

SAPPHIRE—RAW, NATURAL OR SYNTHETIC

Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Atomergic Chemetals Corp Plainview NY	516-349-8800
Crystal Systems Inc Salem MA	617-745-0088
General Diode Corp Framingham MA	617-879-0880
General Ruby & Sapphire Corp	
New Port Richey FL	813-849-0638
Meller Co Adolf Providence RI	401-331-3717
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Stamet Mfg Corp Fairfield NJ	201-227-2432
Swiss Jewel Co Philadelphia PA	215-925-2867

SAPPHIRE SEALS

See Package Parts—Hermetic Seals

SAPPHIRE SUBSTRATES SEE SUBSTRATES—SAPPHIRE

SATURABLE REACTORS

BASLER ELECTRIC CO HIGHLAND IL	618-654-2341
HISONIC INC OLATHE KS	913-782-0012
Basler Electric Co Highland IL	618-654-2341
Centroid Inc Syosset NY	516-822-4770
Chloride Electro Networks Caledonia NY	716-538-4421
Custom Coils Inc Alcester SD	605-934-2460
Hadley Co Inc Robert M Los Angeles CA	213-234-9091
Hisonic Inc Olathe KS	913-782-0012
Hiltron Corp Flemington NJ	201-782-5525
Industrial Control Co Rockledge FL	305-259-7105
Mag-Con Inc St Paul MN	612-633-8820
Magnetico Inc Holtville NY	516-654-1166
Magnetics Div Spang Co Butler PA	412-282-8282
Maxwell Labs Inc San Diego CA	619-279-5100
Minnesota Magnetic Coil Co Stacy	612-464-7714
NWL Transformers Bordentown NJ	609-298-7300
Peschel Instruments Inc Cape Coral FL	813-574-3164
Polyphase Instrument Co Ft Washington PA	215-643-6950
Precision Inc Minneapolis MN	612-537-9340
S K G Associates Inc Norwell MA	617-878-7250
Sola Electric A Unit Of Gen Signal	
Elk Grove Village IL	312-439-2800
Sorgel Transformers Div Square D Co	
Milwaukee WI	414-384-8100
Thordarson Meissner Inc Mt Carmel IL	618-262-5121
Torotol Products Inc Grandview MO	816-761-6314
Twilco Electronics Inc Lakewood NJ	609-364-1800

SAWS

See Diamond Wheels; Tools—Cutters

SCALERS

See Counters

SCALES—INSTRUMENT

See Dials; Display Panels—Graphic;

Indicators—General Purpose

SCAN CONVERTERS

See Tubes—Cathode-Ray

SCANNING EQUIPMENT

See Commutators

Computer Input Image Scanners

Infrared Systems—Scanning Microscopes

Laser Ranging & Scanning Systems

Multiplexers

Optical Scanners (Oscillating Lens or Prisms)

SCINTILLATION COUNTERS

See Counters—Photon & Scintillation

SCINTILLATORS & SCINTILLATION CRYSTALS

Atomergic Chemetals Corp Plainview NY	516-349-8800
Baird Corp Bedford MA	617-276-6000
Canberra Industries Inc Meriden CT	203-238-2300
Collins & Assoc Don L Glendale CA	213-245-2700
Crystal Technology Inc Palo Alto CA	415-856-7500
Deltronic Crystal Industries Dover NJ	201-361-2200
Ludlum Measurements Inc Sweetwater TX	915-235-5000
Nuclear Enterprises Ltd Beenhaim Reading	0734-7120
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791
Polysciences Inc Warrington PA	215-343-6400
RIL Electronics Inc Warrington PA	215-343-5000
The Nucleus Inc Oak Ridge TN	615-483-0000
Victoreen Inc Cleveland OH	216-795-8200

SCRAMBLED SPEECH SYSTEMS

See Communications Systems—Military Special

Code

SCRAMBLERS—DATA

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Com/Tech Systems Inc New York NY	212-594-5300
Decom Systems Inc San Marcos CA	619-744-1000
Fargo Co San Francisco CA	415-621-1400
New Wave Instruments San Jose CA	408-629-3100
Nu Data Corp Little Silver NJ	201-842-5700
Technical Communications Corp Concord MA	617-862-6000

SCRAMBLERS—SPEECH

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Fargo Co San Francisco CA	415-621-1400
Harris Corp RF Commun Gr Rochester NY	716-244-5600
Lear Siegler Inc Santa Monica CA	213-452-5400
Mountain West Alarm Supply Co Phoenix AZ	602-263-8800
Scientific Radio Systems Inc Rochester NY	716-458-3700
Technical Communications Corp Concord MA	617-862-6000

SCR DEVICES

See Thyristors

SCREEN PRINTING EQUIPMENT & INKS

See Silk Screen Listings

SCREEN PRINTING SERVICES

See Printed Circuits; Production

Services—Metalizing, Print & Fire

SCREEN ROOMS

See Chambers, Environmental—Shielded

SCREENS—SHIELDING

See Shielding—Electrostatic

SCREWS

APM-HEXSEAL CORP ENGLEWOOD NJ	201-569-5700
CONCORD ELECTRONICS CORP	
NEW YORK NY	212-777-6571
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
UNICORP ORANGE NJ	201-674-1700
ADV PG 208	
Abbott Products Inc College Point NY	718-358-1400
Abasco Industries Hawthorne CA	213-970-0886
Accessories for Electronics Inc Baldwin NY	516-546-1700
Acme Model Engineering Co Ridgeland NJ	201-943-7600
Allmetal Screw Products Co Inc	
Garden City NY	516-222-1200
Amatom Electronic Hardware Co	
New Haven CT	203-397-3500
American-Swiss Products Co Inc Pittsford NY	716-248-2200
APM-Hexseal Corp Englewood NJ	201-569-5700
Aristo-Craft New York NY	212-924-4000
Augat/Pylon Co Inc Attleboro Falls MA	617-699-7600
Berg Inc Winfred M East Rockaway NY	516-599-5600
Camcar Div Textron Inc Rockford IL	815-226-7700
Captive Fastener Corp Oakland NJ	201-337-6600
Concord Electronics Corp New York NY	212-777-6571
Elco Industries Inc Rockford Div Rockford IL	815-397-5100
Federal Screw Products Inc Chicago IL	312-478-5700
GC Electronics Div Household Intl	
Rockford IL	815-968-9600
General Ruby & Sapphire Corp	
New Port Richey FL	813-849-0600

es/Dynacast Div Coats & Clark Inc	914-633-8600
orktown Hts NY	213-326-8110
Shear Technology Corp Torrance CA	201-776-9595
etron Corp Asbury Park NJ	201-223-9400
ka Smith Inc Manasquan NJ	
sen Precision Components Corp	
New York NY	212-233-2491
e Line Fasteners Beverly NJ	609-387-1166
alist Champion Screw Melrose Park IL	312-345-3130
iti-Flex Seals Inc Hackensack NJ	201-487-8080
D Industries Troy MI	313-362-1200
reicom Industries Inc Farmingdale NY	516-249-7262
nda Electronic Mfg Inc Meadville PA	814-336-2125
Design Middlebury CT	203-758-8272
roblain Products Co Carey OH	419-396-7621
d Devil Mfg Co Inc Rosemont IL	312-693-4045
gell Burdell & Ward Corp Cleveland OH	216-861-8250
skal Far East Ltd Hartsdale NY	914-681-0700
S Lighting Devices Div MEMCO	
Philadelphia PA	215-423-7077
uthco Inc Concordville PA	215-459-4000
thern Screw Div Farley Metals Inc	
Statesville NC	704-873-7213
C Technology Bensenville IL	312-766-6711
ke Fastener Co Div Dupree Inc Chino CA	714-597-4889
ndard Insert Co Inc Pacoima CA	818-896-9529
ok Drive Products Inc Div Designatronics	
New Hyde Park NY	212-968-0200
le Machine Co Inc Rochester NY	716-244-6700
icorp Orange NJ	201-674-1700

CONTRIBUTORS—SEMICONDUCTOR

See Machines, Semiconductor

Production—Wafer Scribing

SEALING METALS

See Metals—Glass Sealing; Wire—Bare

SEALING SERVICES

See Production Services

SEALS—HERMETIC

See Package Parts

SEALS—MECHANICAL

M-HEXSEAL CORP ENGLEWOOD NJ	201-569-5700
RAMASEAL DIV CLEVELAK CORP	
NEW LEBANON CENTER NY	518-794-7800
APHITE METALLIZING CORP	
ONKERS NY	914-968-8400
DP VG 47	
scoda Industries Hawthorne CA	213-970-0886
ance Carbon Products Inc Brisbane CA	415-468-1670
anced Products Co North Haven CT	203-239-3341
E Corp Little Falls NJ	201-256-3939
M-Hexseal Corp Englewood NJ	201-569-5700
ociated Sales & Bag Co Milwaukee WI	414-272-2380
Seal Engineering Co Santa Ana CA	714-557-5192
fab Div Pacific Scientific Inc	
Jaytona Beach FL	904-253-0628
tofram Corp A Rexnord Co Burlington MA	617-272-2100
g Inc Winfred M East Rockaway NY	516-599-5010
ice Plastics Inc Pittsburgh PA	412-877-2100
bone USA Corp Boonton NJ	201-334-0700
on Connector Corp Kingston MA	617-585-4315
ramaseal Div Clevelpak Corp	
ew Lebanon Center NY	518-794-7800
mericus Laminates Inc Hudson NH	603-880-4807
mmunitronics Ltd Bohemia NY	516-567-8320
rax Buffalo Corp Buffalo NY	716-684-4500
/Pro Rubber Inc Tulsa OK	918-258-9386
rofluidics Corp Nashua NH	603-883-9800
nchtown Ceramics Co Frenchtown NJ	201-996-2121
aphite Metallizing Corp Yonkers NY	914-968-8400
twig Carbon Inc Milwaukee WI	414-372-3113
chill Rubber Co Brea CA	714-529-4901
ven Electronics Lab Red Bank NJ	201-741-1716
chanical Rubber Products Corp	
Warwick NY	914-986-2271
or Rubber Co Inc Bloomfield NJ	201-338-6800
iti-Flex Seals Inc Hackensack NJ	201-487-8080
kroy/Mycaltec Clifton NJ	201-779-8866
rtion Co Worcester MA	617-853-1000
nduit Corp Tinley Park IL	312-532-1800
ker Hannifin Corp Seal Group	
exington KY	606-269-2351
o Graphite Inc Decatur TX	817-627-2121
o Carbon Co Inc St Marys PA	814-781-1573
rnord Inc Milwaukee WI	414-643-3000
Marys Carbon Co St Marys PA	814-781-7333
amban & Co W S Santa Monica CA	213-397-2195
ickpole, Carbon Div St Marys PA	814-781-1234
ck Drive Products Inc Div Designatronics	
New Hyde Park NY	516-328-0200
ay Lab Inc Yellow Springs OH	513-767-7261
toeren Inc Cleveland OH	216-795-8200

SECURITY SYSTEMS—INTRUDER

I ELECTRONICS HAUPPAUGE NY	516-582-3400
OKAI FAR EAST LTD HARTSDALE NY	914-681-0700
urate Electronics Corp Elyria OH	216-365-1211
n/Diamond Lancaster OH	614-756-9222
ronautics Corp of America Milwaukee WI	414-447-8200
antic Research Corp Alexandria VA	703-642-4000
IV Research Inc Dakota City NE	402-987-3771

addresses, phones & sales offices, see green pages

Barnes Engineering Co Stamford CT	203-348-5381
Base Ten Systems Inc Trenton NJ	609-586-7010
Continental Instruments Corp Westbury NY	516-334-0900
Deca Mfg Co Inc Lexington OH	419-884-0071
Delta Products Inc Grand Junction CO	303-242-9000
Dexter Research Center Inc Dexter MI	313-426-3921
Elcom Industries Inc St Louis MO	314-429-3100
Eltec Instruments Inc Daytona Beach FL	904-253-5328
Enenco Seattle WA	206-762-1422
Foundation Instruments Inc Nepean ON	613-226-4000
Godfrey Mfg Co Chicago IL	312-384-7550
GTE Govt Systems Western Div Mt View CA	415-966-2000
Heath Co Benton Harbor MI	616-982-3200
Infinetics Inc Electromagnetic Div	
Wilmington DE	302-658-2471
IR Scientific Carlisle MA	617-667-7110
Kahn Communications Inc Westbury NY	516-222-2221
K C Industries Inc Cambridge NE	308-697-4711
Kel Corp Melrose MA	617-662-2222
Lake Systems Corp Newton MA	617-244-6881
Larse Corp Santa Clara CA	408-988-6600
Math Associates Inc Westbury NY	516-334-6800
MG Electronics Hauppauge NY	516-582-3400
Modular Command Systems Inc	
Fountain Valley CA	714-963-8844
Mountain West Alarm Supply Co Phoenix AZ	602-263-8831
Nutone Div Scovill Mfg Co Cincinnati OH	513-527-5100
Polaroid Corp Cambridge MA	617-577-2000
Poly-Scientific Litton Systems Inc	
Blacksburg VA	703-552-3011
Projectapix II New York NY	212-765-7869
Racon Inc Seattle WA	206-221-1110
Robot Industries Inc Dearborn MI	313-846-2623
Rusco Electronic Systems Glendale CA	818-240-2540
Seaboard Electronics Div Nealor Corp	
New Rochelle NY	914-235-8073
Shokai Far East Ltd Hartsdale NY	914-681-0700
Solder Absorbing Technology Springfield MA	413-788-6191
Sparton Corp Jackson MI	517-787-8600
Sparton of Canada Ltd London ON	519-455-6320
Sparton Technology Inc Rio Rancho NM	505-892-5300
Tapeswitch Corp of America Farmingdale NY	516-694-6312
TekTone Sound & Signal Mfg Inc	
Lake Park FL	305-844-2383
Winland Electronics Inc Mankato MN	507-625-7231

SECURITY SYSTEMS—WEAPON DETECTOR

HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
American Science & Engineering Inc	
Cambridge MA	617-868-1600
Breeze-Illinois Inc Peoria IL	309-695-2511
Hunter Products Inc Bridgewater NJ	201-526-8440
Infinetics Inc Electromagnetic Div	
Wilmington DE	302-658-2471
PC Security Enterprises Newton Centre MA	617-277-3111
Robot Industries Inc Dearborn MI	313-846-2623
Swintek Enterprises Campbell CA	408-378-8091

SEISMOGRAPHS

TELEDYNE GEOTECH GARLAND TX	214-271-2561
Bison Instruments Inc Minneapolis MN	612-926-1846
Digital Technology Associates LaVerne CA	714-596-4145
Engdahl Enterprises Costa Mesa CA	714-540-0398
PCB Piezotronics Inc Depew NY	716-684-0001
Sprengnether Instruments Inc St Louis MO	314-535-1682
Teledyne Geotech Garland TX	214-271-2561

SELECTIVE CALLING SYSTEMS

See Communications Systems

SELENIUM

AEG CORPORATION SOMERVILLE NJ	201-722-9800
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
AEG Corporation Somerville NJ	201-722-9800
Atomergic Chemetals Corp Plainview NY	516-349-8800
Cerac Inc Milwaukee WI	414-289-9800
Eastern Delta Corp Nutley NJ	201-667-8721
General Diode Corp Framingham MA	617-879-0880
Green Rectifier Corp Nutley NJ	201-667-8721
Materials Research Corp Orangeburg NY	914-359-4200
NTE Electronics Inc Bloomfield NJ	201-748-5089
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Semikron Inc Hudson NH	603-883-8102
Shokai Far East Ltd Hartsdale NY	914-681-0700
Silicon Sensors Inc Dodgeville WI	608-935-2707
S T Semicon Inc Bloomington IN	812-332-1435
United Mineral & Chemical Corp	
New York NY	212-966-4330

SELENIUM CELLS

See Photocells

SELENIUM RECTIFIERS

See Rectifiers

SELSYNS

See Synchros

SEMICONDUCTOR HANDLERS

See IC Handlers

SEMICONDUCTOR PRODUCTION EQUIPMENT

See Machines, Semiconductor Production

SEMICONDUCTOR PRODUCTION MATERIALS

See Chemicals

SEMICONDUCTORS—CRYSTALS (UNCUT)

Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Atomergic Chemetals Corp Plainview NY	516-349-8800
Cominco Electronic Materials Inc	
Spokane WA	509-924-2200
Crystal Specialties Inc Crystal Growth Div	
Ephraim UT	818-283-4011
Crystal Systems Inc Salem MA	617-745-0088
Eagle-Picher Industries Inc Quapaw OK	918-673-1650
Eagle-Picher Industries Inc Electronics Div	
Joplin MO	417-623-8000
General Diode Corp Framingham MA	617-879-0880
M/A COM Laser Diode Inc	
New Brunswick NJ	201-249-7000
Phoenix Materials Corp Kittanning PA	412-548-1531
United Mineral & Chemical Corp	
New York NY	212-966-4330
Wacker Siltronic Corp Portland OR	503-243-2020

SEMICONDUCTORS—CRYSTAL WAFERS

GENERAL INSTRUMENT/OPTOELECTRONICS DIV	
PALO ALTO CA	415-493-0400
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
Atomergic Chemetals Corp Plainview NY	516-349-8800
Budd Cato Assoc Inc Brielle NJ	201-528-7439
Cominco Electronic Materials Inc	
Spokane WA	509-924-2200
Crystal Specialties Inc Crystal Growth Div	
Ephraim UT	818-283-4011
Crystal Systems Inc Salem MA	617-745-0088
Eagle-Picher Industries Inc Quapaw OK	918-673-1650
General Diode Corp Framingham MA	617-879-0880
General Instrument Corp Discrete Semiconductor Div	
Hicksville NY	516-933-3333
General Instrument/Optoelectronics Div	
Palo Alto CA	415-493-0400
M/A-COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000
M/A COM Laser Diode Inc	
New Brunswick NJ	201-249-7000
Meller Co Adolf Providence RI	401-331-3717
Mitel Corp Semiconductor Div Kanata ON	613-592-5630
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
Mouser Electronics Mansfield TX	817-483-0165
Orbit Semiconductor Inc Sunnyvale CA	408-744-1800
Phoenix Materials Corp Kittanning PA	412-548-1531
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Soltron Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Synthatron Corp Parsippany NJ	201-335-5000
Transistor Specialties Inc Danvers MA	617-774-8722
United Mineral & Chemical Corp	
New York NY	212-966-4330
Universal Semiconductor Inc San Jose CA	408-436-1900
Wacker Siltronic Corp Portland OR	503-243-2020

SEMICONDUCTORS—DEVICES

See Type Desired (Diodes; ICs Listings; Transistors; Etc.)

SEMICONDUCTORS—GLASSY

See Glasses

SEMICONDUCTORS—POLYCRYSTALLINE

Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Atomergic Chemetals Corp Plainview NY	516-349-8800
Cherry Electrical Products Corp Waukegan IL	312-662-9200
Cominco Electronic Materials Inc	
Spokane WA	509-924-2200
Crystal Specialties Inc Crystal Growth Div	
Ephraim UT	818-283-4011
Dow Corning Corp Midland MI	517-496-4000
Eagle-Picher Industries Inc Quapaw OK	918-673-1650
Eagle-Picher Industries Inc Electronics Div	
Joplin MO	417-623-8000
Eastern Delta Corp Nutley NJ	201-667-8721
Fenwal Electronics Framingham MA	617-872-8841
General Diode Corp Framingham MA	617-879-0880
Green Rectifier Corp Nutley NJ	201-667-8721
M/A-COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000

M/A COM Laser Diode Inc	
New Brunswick NJ	201-249-7000
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Texas Instruments Optoelectronics Dallas TX	214-995-6611
United Mineral & Chemical Corp	
New York NY	212-966-4330
Wacker Siltronic Corp Portland OR	503-243-2020
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

SENSORS

See Transducers

SEQUENCERS

See Programmers; Timers

SERVICES

See Antenna Tower Services

Calibration Services

Components & Parts Reference List

Computer Services

Photomask Preparation

Production Services

Shipping Services

Silk Screen Preparation

Test Equipment Rental

SERVO AMPLIFIERS

See Amplifiers

SERVO ANALYZERS

See Also Testers—Servo

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ADV PG 416	
Bafco Inc Warminster PA	215-674-1700
Control Technology Co Inc	
Long Island City NY	718-361-2133
Dranetz Technologies Inc Edison NJ	201-287-3680
Feedback Inc Berkeley Heights NJ	201-464-5181
Industrial Control Co Rockledge FL	305-259-7105
Servo Corp of America Hicksville NY	516-938-9700

SERVO DEMONSTRATORS

CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ADV PG 416	
Computer Optical Products Inc	
Chatsworth CA	818-882-0424
Control Technology Co Inc	
Long Island City NY	718-361-2133
Digiac Corp Hauppauge NY	516-234-2100
Feedback Inc Berkeley Heights NJ	201-464-5181
Industrial Control Co Rockledge FL	305-259-7105
PMI Motion Technologies Commack NY	516-864-1000

SERVO ENCODERS

See Encoders—Shaft Position

SERVO INDICATORS

COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ADV PG 416	
Abrams Instrument Corp Lansing MI	517-332-6405
Astronautics Corp of America Milwaukee WI	414-447-8200
Chessel Corp Newtown PA	215-968-0660
Clifton Precision Litton Systems Inc	
Clifton Hts PA	215-622-1000
Computer Conversions Corp	
East Northport NY	516-261-3300
Control Technology Co Inc	
Long Island City NY	718-361-2133
Eldec Corp Lynnwood WA	206-743-1313
Electric Tachometer Corp Philadelphia PA	215-726-7723
Electro-Craft Corp Hopkins MN	612-931-2700
Gap Instrument Corp Smithtown NY	516-273-0909
Howell Instruments Inc Fort Worth TX	817-336-7411
Industrial Control Co Rockledge FL	305-259-7105
Kaybar Corp Little Ferry NJ	201-440-3848
Malwin Electronics Corp Paterson NJ	201-881-1500
Montevideo Technology Inc Montevideo MN	612-269-6562
North Atlantic Industries Inc Hauppauge NY	516-582-6500
Orbit Instrument Corp Hauppauge NY	516-435-8300
Penn Airborne Products Co Southampton PA	215-355-3400
Sequential Information Systems Inc	
Elmsford NY	914-592-5930
Singer Co Kearfott Div Little Falls NJ	201-785-6000
Transducer Systems Inc Kulpville PA	215-256-4611
Transcoil Inc Worcester PA	215-277-1300
Vernitron Control Components Div Vernitron Corp	
San Diego CA	619-428-5581

SERVO

ACTUATORS

INDICATORS

AMPLIFIERS

SYNCHRO

AMPLIFIERS

SPECIAL SYSTEMS

ANALOG • DIGITAL

Although CTC is best known for its system engineering, a most significant part of the company is in the field of CUSTOMIZING of electronics for control systems applications. By using off-the-shelf modules, we can accomplish such MODIFICATIONS in a short time and in most cases without extra cost.

WRITE/CALL

CONTROL

TECHNOLOGY Co. Inc.

41 16 29 STREET
L.I.C. NY 11101

718-361-2133

SERVO LIMIT STOPS

COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3300
Berg Inc Winfred M East Rockaway NY	516-599-5010
Computer Conversions Corp	
East Northport NY	516-261-3300
Electro-Craft Corp Hopkins MN	612-931-2700
Fae Industries Inc Huntington Station NY	516-271-0300
Gap Instrument Corp Smithtown NY	516-273-0909
Industrial Control Co Rockledge FL	305-259-7105
Precision Mechanisms Corp Westbury NY	516-333-5955

SERVO MECHANICAL ASSEMBLIES

See Also Cams; Gears

AEG CORPORATION SOMERVILLE NJ	201-722-9800
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2133
ADV PG 416	
WIDE RANGE ELECTRONICS CORP	
ST LOUIS MO	314-343-9191
Abrams Instrument Corp Lansing MI	517-332-6405
AEG Corporation Somerville NJ	201-722-9800
Aerotech Inc Pittsburgh PA	412-963-7470
Benton Corp Warrendale PA	412-776-5577
Berg Inc Winfred M East Rockaway NY	516-599-5010
Bowmar Instrument Corp Ft Wayne Div	
Ft Wayne IN	219-747-3121
Carco Electronics Menlo Park CA	415-321-8174
Clifton Precision Litton Systems Inc	
Clifton Hts PA	215-622-1000
Computer Optical Products Inc	
Chatsworth CA	818-882-0424
Control Technology Co Inc	
Long Island City NY	718-361-2133
Control Technology Corp Hopkinton MA	617-435-9595
Copley Controls Corp Newtown MA	617-965-2410
Curry Engineering Co N Hollywood CA	213-877-1786
Digiac Corp Hauppauge NY	516-234-2100
Electric Tachometer Corp Philadelphia PA	215-726-7723
Fae Industries Inc Huntington Station NY	516-271-0300
Flight Research A Geotol Co Richmond VA	804-222-0163
Gap Instrument Corp Smithtown NY	516-273-0909
General Defense Corp Systems Div	
Pinellas Park FL	813-541-6681
General Electric Co Ordnance Sys Div	
Pittsfield MA	413-494-3634
Glentek Inc El Segundo CA	213-322-3026
Icon Corp Cambridge MA	617-868-5400
Industrial Control Co Rockledge FL	305-259-7105
Inscro Corp Groton MA	617-448-6369
Instru-Lec Corp New Milford CT	203-355-3717
Kaybar Corp Little Ferry NJ	201-440-3848

Kintec Corp Largo FL	813-586-5
Ledex Inc Electromechanical Prods	
Vandalia OH	513-898-3
Malwin Electronics Corp Paterson NJ	201-881-1
Micro Mo Electronics Inc St Petersburg FL	813-822-2
MPC Products Corp Skokie IL	312-673-8
Muirhead Inc Mountainside NJ	201-233-6
PIC Design Middlebury CT	203-758-8
PMI Motion Technologies Commack NY	516-864-1
Precision Mechanisms Corp Westbury NY	516-333-5
Singer Co Kearfott Div Little Falls NJ	201-785-6
Stock Drive Products Inc Div Designatronics	
New Hyde Park NY	516-328-0
Transcoil Inc Worcester PA	215-277-1
Vernitron Div Vernitron Corp Deer Park NY	516-586-5
Vernitron Control Components Div Vernitron Corp	
San Diego CA	619-428-5
Wide Range Electronics Corp St Louis MO	314-343-9

SERVOMECHANISMS

See Servosystems

SERVO MOTORS (MOTORS ONLY)

See Motors

SERVO POTENTIOMETERS (WITH DRIVE)

SERVO INSTRUMENT CORP BARABOO WI	608-356-6
Carter Mfg Corp Bolton MA	617-779-5
Copal Electronics Co Ltd Tokyo Japan	03-503-3
Honeywell Process Control Div	
Ft Washington PA	215-641-3
Industrial Control Co Rockledge FL	305-259-7
JDK Controls Inc Newbury Park CA	805-499-7
Litton Systems Inc Potentiometer Div	
Mt Vernon NY	914-664-7
Malwin Electronics Corp Paterson NJ	201-881-1
Samaris Inc Derby CT	203-735-7
Servo Instrument Corp Baraboo WI	608-356-6
Transcoil Inc Worcester PA	215-277-1
Vernitron Div Vernitron Corp Deer Park NY	516-586-5

SERVOS—ACTUATORS

BEI MOTION SYS CO KIMCO DIV	
SAN MARCOS CA	619-744-5
ADV PG 176,177	
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2
ADV PG 416	
Bafco Inc Warminster PA	215-674-1
Bailey Controls Co Wickliffe OH	216-585-8
BEI Motion Sys Co Kimco Div	
San Marcos CA	619-744-5
Benton Corp Warrendale PA	412-776-5
Berg Inc Winfred M East Rockaway NY	516-599-5
Compumotor Corp Petaluma CA	707-777-1
Computer Optical Products Inc	
Chatsworth CA	818-882-0
Control Technology Co Inc	
Long Island City NY	718-361-2
Copley Controls Corp Newtown MA	617-965-2
Greenics Inc Lebanon NH	603-448-6
Dolan Jenner Industries Inc Woburn MA	617-935-7
Gap Instrument Corp Smithtown NY	516-273-0
Glentek Inc El Segundo CA	213-322-3
Industrial Control Co Rockledge FL	305-259-7
Inland Motor Specialty Prods Div-Kollmorgen Corp	
Radford VA	703-639-9
Instru-Lec Corp New Milford CT	203-355-3
Lear Siegler Inc Santa Monica CA	213-452-5
Ledex Inc Electromechanical Prods	
Vandalia OH	513-898-3
Magnetic Technology Div Vernitron Corp	
Canoga Park CA	213-887-7
McDonnell Douglas Electronics St Charles MO	314-925-4
Micro Mo Electronics Inc St Petersburg FL	813-822-2
MPC Products Corp Skokie IL	312-673-8
Muirhead Inc Mountainside NJ	201-233-6
NTK Technical Ceramic Div Richardson TX	214-235-8
Orbit Instrument Corp Hauppauge NY	516-435-8
PMI Motion Technologies Commack NY	516-864-1
Sierrac/Magnedyn Carlsbad CA	619-438-3
Sperdy Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2
Teledyne Microelectronics Los Angeles CA	213-970-9
Thomson CSF Inc White Plains NY	914-694-4
Transcoil Inc Worcester PA	215-277-1
TRW Motor Div Dayton OH	513-228-3
TS Products Inc Arieta CA	818-896-6
Warner Electric Brake & Clutch Co	
South Beloit IL	815-389-3

SERVOS—COMPUTER

COMPUTER CONVERSIONS CORP	
EAST NORTHPORT NY	516-261-3
CONTROL TECHNOLOGY CO INC	
LONG ISLAND CITY NY	718-361-2
ADV PG 416	
Buckminster Corp Cambridge MA	617-864-2
Clifton Precision Litton Systems Inc	
Clifton Hts PA	215-622-1
Computer Conversions Corp	
East Northport NY	516-261-3
Control Technology Co Inc	
Long Island City NY	718-361-2
Control Technology Corp Hopkinton MA	617-435-9

sonics Inc Lebanon NH.....	603-448-6300
tatran Labs Inc Sussex NJ.....	914-856-4313
icro-Craft Corp Hopkins MN.....	612-931-2700
ip Instrument Corp Smithtown NY.....	516-273-0909
neral Magnetics Inc Bloomfield NJ.....	201-743-2700
entek Inc El Segundo CA.....	213-322-3026
ustrial Control Co Rockledge FL.....	305-259-7105
North Coast Automation Programmable Motion Control Cleveland OH.....	216-473-3800
bin Instrument Corp Hauppauge NY.....	516-435-8300
bin Engineering Co Coatesville PA.....	215-383-6842
nger Co Kearfott Div Little Falls NJ.....	201-785-6000
eddyne Microelectronics Los Angeles CA.....	213-870-9831
anducer Systems Inc Kulpville PA.....	215-256-4611
ansicoil Inc Worcester PA.....	215-277-1300

ERVO—CONTROL

CONTROL TECHNOLOGY CO INC ADV PGS 176 177	501-851-4000
CONTROL TECHNOLOGY CO INC ADV PG 416	718-361-2133
roflex Labs Inc Plainview NY.....	516-694-6700
rotech Inc Pittsburgh PA.....	412-963-7470
orad Corp Hauppauge NY.....	516-231-1995
iley Controls Co Wickliffe OH.....	216-585-8500
B Motor & Control Corp Burlington CT.....	718-784-1313
CONTROL SYS CO Digital Products Div Little Rock AR.....	501-851-4000
ntion Corp Warrendale PA.....	412-776-5577
keley Process Control Inc Richmond CA.....	415-526-3333
stol Babcock Inc Waterbury CT.....	203-575-3000
ckminster Corp Cambridge MA.....	617-884-2456
mpumotor Corp Petaluma CA.....	707-778-1244
mputer Optical Products Inc Charlottesville VA.....	818-882-0424
ntrol Technology Co Inc Long Island City NY.....	718-361-2133
ntrol Technology Corp Hopkinton MA.....	617-435-9595
play Controls Corp Newtown MA.....	617-965-2410
onics Inc Lebanon NH.....	603-448-6300
atran Labs Inc Sussex NJ.....	914-856-4313
icro-Craft Corp Hopkins MN.....	612-931-2700
icroscope Systems Inc Richardson TX.....	214-783-2004
erson Industrial Controls Santa Ana CA.....	714-545-5581
il Motion Control Mountain View CA.....	415-964-6494
ip Instrument Corp Smithtown NY.....	516-273-0909
Co Automation Controls Oper Charlottesville VA.....	804-978-5000
entek Inc El Segundo CA.....	213-322-3026
neywell Inc IPC Div York PA.....	717-848-1151
neywell Process Control Div Washington PA.....	215-641-3000
in Corp Cambridge MA.....	617-868-5400
ustrial Control Co Rockledge FL.....	305-259-7105
erial Motors Corp Doylestown PA.....	215-345-1010
and Motor Specialty Prods Div-Kollmorgen Corp Bedford VA.....	703-639-9045
g Electronics Inc Anaheim CA.....	714-779-1900
alwin Electronics Corp Paterson NJ.....	201-881-1500
ro Mo Electronics Inc St Petersburg FL.....	813-822-2529
North Coast Automation Programmable Motion Control Cleveland OH.....	216-473-3800
Al Motion Technologies Commack NY.....	516-864-1000
bin Engineering Co Coatesville PA.....	215-383-6842
identific-Atlanta Inc Atlanta GA.....	404-441-4000
erracin/Magnedyne Carlsbad CA.....	619-438-3321
nger Co Kearfott Div Little Falls NJ.....	201-785-6000
ectral Dynamics Div Scientific-Atlanta Inc San Diego CA.....	619-268-7100
eddyne Microelectronics Los Angeles CA.....	213-870-9831
ansicoil Inc Worcester PA.....	215-277-1300
holtz-Dickie Corp Wallingford CT.....	203-265-3929
rmitech Div Vernitron Corp Deer Park NY.....	516-586-5100

ERVO—REPEATER

CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY	718-361-2133
ADV PG 416	
ifton Precision Litton Systems Inc Clifton Hts PA.....	215-622-1000
ontrol Technology Co Inc Long Island City NY.....	718-361-2133
ip Instrument Corp Smithtown NY.....	516-273-0909
arowe Servo Controls Inc West Chester PA.....	215-692-2700
ustrial Control Co Rockledge FL.....	305-259-7105
erial Motors Corp Doylestown PA.....	215-345-1010
aybar Corp Little Ferry NJ.....	201-440-3848
alwin Electronics Corp Paterson NJ.....	201-881-1500
PC Products Corp Skokie IL.....	312-673-8300
uirhead Inc Mountaineers NJ.....	201-233-6010
bit Instrument Corp Hauppauge NY.....	516-435-8300
nger Co Kearfott Div Little Falls NJ.....	201-785-6000
ansicoil Inc Worcester PA.....	215-277-1300

ERVO SYSTEMS

EI MOTION SYSTEMS CO CARLSBAD CA	619-931-1500
ADV PGS 176 177	
EI MOTION SYS CO DIGITAL PRODUCTS DIV LITTLE ROCK AR	501-851-4000
ADV PGS 176 177	
COMPUTER CONVERSIONS CORP EAST NORTHPORT NY	516-261-3300
CONTROL TECHNOLOGY CO INC LONG ISLAND CITY NY	718-361-2133
ADV PG 416	
ENVIROMARINE SYSTEMS INC LAUREL MD	301-598-8833
IDE RANGE ELECTRONICS CORP ST LOUIS MO	314-343-9191

Aeroflex Labs Inc Plainview NY.....	516-694-6700
Automation Unitid Inc Woburn MA.....	617-933-7288
Beckman Industrial Corp Brea CA.....	714-871-4848
BEI Motion Systems Co Carlsbad CA.....	619-931-1500
Little Rock AR.....	501-851-4000
Benton Corp Warrendale PA.....	412-776-5577
Buckminster Corp Cambridge MA.....	617-864-2456
Clifton Precision Litton Systems Inc Clifton Hts PA.....	215-622-1000
Computer Conversions Corp East Northport NY.....	516-261-3300
Control Technology Co Inc Long Island City NY.....	718-361-2133
Copley Controls Corp Newtown MA.....	617-965-2410
Creonics Inc Lebanon NH.....	603-448-6300
Curry Engineering Co N Hollywood CA.....	213-877-1786
Data Technology Inc Woburn MA.....	617-935-8820
Datatron Labs Inc Sussex NJ.....	914-856-4313
Dynetec Systems Corp Elk River MN.....	612-441-4300
Eldec Corp Lynnwood WA.....	206-743-1313
Electronic Counters & Controls Inc Mundelein IL.....	312-362-8910
Electrospace Systems Inc Richardson TX.....	214-783-2004
Enviromarine Systems Inc Laurel MD.....	301-598-8833
Flight Research A Geotek Co Richmond VA.....	804-222-0163
Gallit Motion Control Mountain View CA.....	415-964-6494
Gap Instrument Corp Smithtown NY.....	516-273-0909
General Defense Corp Systems Div Pinellas Park FL.....	813-541-6681
GE Co Automation Controls Oper Charlottesville VA.....	804-978-5000
General Electric Co Ordnance Sys Div Pittsfield MA.....	413-494-3634
Icon Corp Cambridge MA.....	617-868-5400
Industrial Control Co Rockledge FL.....	305-259-7105
Inertial Motors Corp Doylestown PA.....	215-345-1010
Instru-Lec Corp New Milford CT.....	203-355-3717
Lear Siegler Inc Santa Monica CA.....	213-452-5444
Malwin Electronics Corp Paterson NJ.....	201-881-1500
McFadden Systems Inc South Gate CA.....	213-564-5958
Micro Mo Electronics Inc St Petersburg FL.....	813-822-2529
MPC Products Corp Skokie IL.....	312-673-8300
Muirhead Inc Mountaineers NJ.....	201-233-6010
North Atlantic Industries Inc Hauppauge NY.....	516-582-6500
North Coast Automation Programmable Motion Control Cleveland OH.....	216-473-3800
Omega Industries Inc Newport Beach CA.....	714-642-8313
Orbit Instrument Corp Hauppauge NY.....	516-435-8300
PMI Motion Technologies Commack NY.....	516-864-1000
Renco Corp Goleta CA.....	805-968-1525
Scientific-Atlanta Inc Atlanta GA.....	404-441-4000
Sequential Information Systems Inc Elmsford NY.....	914-592-5930
Singer Co Kearfott Div Little Falls NJ.....	201-785-6000
Transicoil Inc Worcester PA.....	215-277-1300
TS Products Inc Arleta CA.....	818-896-6676
Wide Range Electronics Corp St Louis MO.....	314-343-9191

SERVO TESTERS

See Testers

SERVO VALVES

Granville-Phillips Co Boulder CO.....	303-443-7660
Jamessbury Corp Worcester MA.....	617-852-0200
Snap-Tite Inc Erie PA.....	814-438-3821

SHAFT ADAPTERS—FLEXIBLE

Elliott Mfg Co Inc B W Binghamton NY.....	607-772-0404
Fae Industries Inc Huntington Station NY.....	516-271-0300
Kulka Smith Inc Manassquan NJ.....	201-223-9400
White S S Ind Prods Pennwalt Corp Piscataway NJ.....	201-752-8300

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SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
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Alpha Tech Inc Riverdale NJ.....	201-831-1222
Berg Inc Winfred M East Rockaway NY.....	516-599-5010
Boston Gear Quincy MA.....	617-328-3300
Cardwell Condenser Corp Lindenhurst NY.....	516-957-7200
Elliott Mfg Co Inc B W Binghamton NY.....	607-772-0404
Fae Industries Inc Huntington Station NY.....	516-271-0300
General Thermodynamics Corp Plymouth MA.....	617-746-0200
Helical Products Co Inc Santa Maria CA.....	805-928-3851
Jan Hardware Mfg Co Inc Long Island City NY.....	212-361-0800
Kulka Smith Inc Manassquan NJ.....	201-223-9400
Lord Corp Aerospace Products Div Erie PA.....	814-456-8511
Micro Mo Electronics Inc St Petersburg FL.....	813-822-2529
National Radio Components Div Strux Corp Lindenhurst NY.....	516-957-8000
Naugler Engineering Inc Beverly MA.....	617-922-5634
Oxley Developments Co Ltd Ulverston Cumbria England.....	0229-52621
PIC Design Middlebury CT.....	203-758-8272
Reliance Electric Co Cleveland OH.....	800-245-4497
Renbrandt Inc Boston MA.....	617-445-8910
Rexnord Inc Milwaukee WI.....	414-643-3000
Sager Hingham MA.....	617-749-6700
Servomotor Corp Cedar Grove NJ.....	201-785-4630
Sterling Instrument Div Designatronics Inc New Hyde Park NY.....	516-328-3300
Stock Drive Products Inc Div Designatronics New Hyde Park NY.....	516-328-0200
White S S Ind Prods Pennwalt Corp Piscataway NJ.....	201-752-8300
Zero-Max Unit Barry Wright Minneapolis MN.....	612-872-6300

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KEYSTONE ELECTRONICS CORP NEW YORK NY	212-475-4600
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Boston Gear Quincy MA.....	617-328-3300
Cardwell Condenser Corp Lindenhurst NY.....	516-957-7200
Concord Electronics Corp New York NY.....	212-777-6571
Fae Industries Inc Huntington Station NY.....	516-271-0300
Federal Screw Products Inc Chicago IL.....	312-478-5744
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Keystone Electronics Corp New York NY.....	212-475-4600
Kulka Smith Inc Manassquan NJ.....	201-223-9400
National Radio Components Div Strux Corp Lindenhurst NY.....	516-957-8000
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Reliance Electric Co Cleveland OH.....	800-245-4497
Sager Hingham MA.....	617-749-6700
Sterling Instrument Div Designatronics Inc New Hyde Park NY.....	516-328-3300
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JOINT

Berg Inc Winfred M East Rockaway NY.....	516-599-5010
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General Thermodynamics Corp Plymouth MA.....	617-746-0200
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Jan Hardware Mfg Co Inc Long Island City NY.....	212-361-0800
Kulka Smith Inc Manassquan NJ.....	201-223-9400
National Radio Components Div Strux Corp Lindenhurst NY.....	516-957-8000
Naugler Engineering Inc Beverly MA.....	617-922-5634
PIC Design Middlebury CT.....	203-758-8272
Rexnord Inc Milwaukee WI.....	414-643-3000
Sterling Instrument Div Designatronics Inc New Hyde Park NY.....	516-328-3300
Stock Drive Products Inc Div Designatronics New Hyde Park NY.....	516-328-0200

SHAFT POSITION ENCODERS

See Encoders

SHAFTS—FLEXIBLE

SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Bendix Corp Fluid Power Div Utica NY.....	315-797-2500
Elliott Mfg Co Inc B W Binghamton NY.....	607-772-0404
Foredom Electric Co Div Blackstone Ind Inc Bethel CT.....	203-792-8622
Kulka Smith Inc Manassquan NJ.....	201-223-9400
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
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Stock Drive Products Inc Div Designatronics New Hyde Park NY.....	516-328-0200
White S S Ind Prods Pennwalt Corp Piscataway NJ.....	201-752-8300

SHAKE TABLES

See Vibration Test Machines

SHEET METAL

See Metals

SHELLS—PACKAGING

See Package Parts; Packages; Potting Shells

SHELTERS—ELECTRONIC EQUIPMENT, AIR TRANSPORTABLE

ENVIROMARINE SYSTEMS INC LAUREL MD	301-598-8833
TECKNIT CRANFORD NJ	201-272-5500
Andrew Corp Orland Park IL.....	312-349-3300
ATACS Corp Oxford PA.....	215-932-3000
Chemical Fabrics Corp Merrimack NH.....	603-424-9000
Craig Systems Corp Amesbury MA.....	617-388-5662
Enviromarine Systems Inc Laurel MD.....	301-598-8833
Fischer & Porter Co Warminster PA.....	215-674-6000
The Foxboro Co Foxboro MA.....	617-543-8750
Goodyear Aerospace Corp Akron OH.....	216-796-2121
Harris Corp RF Commn Grp Rochester NY.....	716-244-5830
Kingston Metal Specialties Kingston PA.....	717-288-5411
Lindsay Structures Div Intl Steel Co Evansville IN.....	812-425-3311
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
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Skydnyne A Brooks & Perkins Div AAR Corp Port Jervis NY.....	914-856-6655
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See Coating Compounds

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EAGLE MAGNETIC CO INC INDIANAPOLIS IN.....	317-297-1030
ADV PG 419	
LINDGREN R F ENCLOSURES INC ADDISON IL.....	312-628-9100
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C A M Graphics Inc Farmingdale NY.....	516-694-1315
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Eagle Magnetic Co Inc Indianapolis IN.....	317-297-1030
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Tecknit Cranford NJ.....	201-272-5500
Topflight Corp York PA.....	717-843-9901
Unifab Inc Hampstead NH.....	603-329-8205
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COMPAC HOLBROOK NY	516-585-3400
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MAGNETIC SHIELD DIV PERFECTION MICA CO BENSenville IL.....	312-766-7800
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Ad-Vance Magnetics Inc Rochester IN.....	219-223-3158
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Amunel Mfg Corp Philadelphia PA.....	215-535-3000
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Chomerics Laminates Inc Hudson NH.....	603-880-4807
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IRD Mechanalysis Inc Columbus OH.....	614-885-5376
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Stanley-Vidmar Inc Allentown PA.....	215-797-6600
Staver Co Inc Bay Shore NY.....	516-666-8000
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ADV PG 180	
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Ad-Vance Magnetics Inc Rochester IN.....	219-223-3158
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Eagle Magnetic Co Inc Indianapolis IN.....	317-297-1030
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Fair-Rite Products Corp Walkkill NY.....	914-895-2000
Ferronics Inc Fairport NY.....	716-223-1000
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Krystinel Corp Paterson NJ.....	201-345-8900
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National Moldite Co Newark NJ.....	201-589-6800
The Stackpole Corp Elctn Components Div St Marys PA.....	814-781-1200
Steward Mfg Co D M Chattanooga TN.....	615-867-4100
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Uddeholm Corp Totowa NJ.....	201-785-8500
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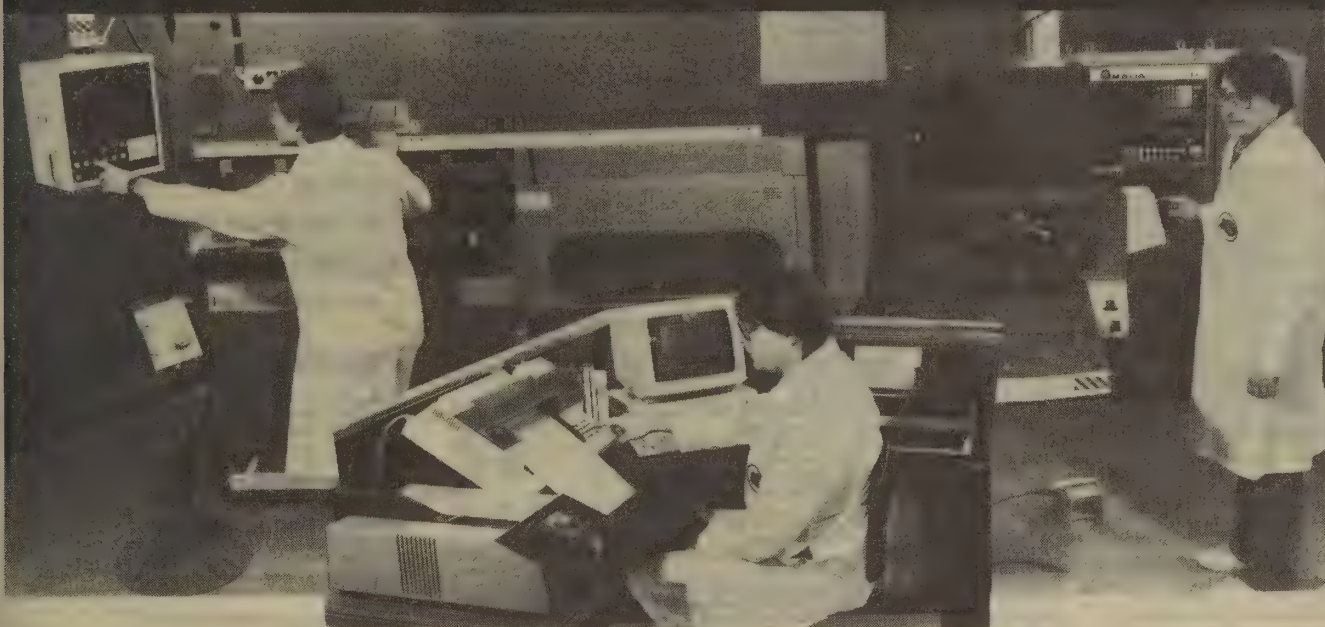
SHIELDING—NUCLEAR RADIATION

TECKNIT CRANFORD NJ	201-272-5500
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Calmont Engineering & Electronics Inc Santa Ana CA.....	714-549-0300
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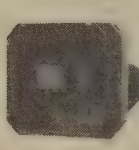
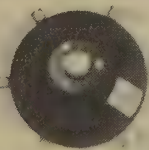
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Emerson & Cuming Canton MA	617-828-3300
Enclosure Corp Cornwall Hts PA	215-638-9550
Estes Engineering Co Port Angeles WA	206-457-0904
Ferroxcube Saugerties NY	914-246-2811
Formulated Resins Inc Greenville RI	401-949-2060
Icore International Inc Sunnyvale CA	408-732-5400
Ideal Tape Inc Div Chelsea Industries	
Lowell MA	617-458-6833
Inmac Santa Clara CA	408-727-1970
Instrument Specialties Co Inc	
Delaware Water Gap PA	717-424-8510
Isochem Products Co Sub Rohm & Haas	
Lincoln RI	401-723-2100
ITT Pomona Electronics Pomona CA	714-623-3463
Jan Hardware Mfg Co Inc	
Long Island City NY	212-361-0800
Keene Corp Laminates Div	
East Providence RI	401-434-2340
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Kindgren R F Enclosures Inc Addison IL	312-628-9100
Lindsay Structures Div Intl Steel Co	
Evansville IN	812-425-3311
LNP Corp Malvern PA	215-644-5200
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Master Bond Inc Englewood NJ	201-343-8983
Multi-Flex Seals Inc Hackensack NJ	201-487-8080
MuShield Co Malden MA	617-321-4410
Nova-Tronix Inc Santa Clara CA	408-727-9530
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Southwall Technologies Palo Alto CA	415-962-9111
Spectrum Control Inc Erie PA	814-455-0966
Steward Mfg Co D M Chattanooga TN	615-867-4100
Sunbank Electronics Inc Paso Robles CA	805-238-2840
Swift Textile Metalizing Corp Hartford CT	203-522-1181
SWS Silicones Corp Adrian MI	517-263-5711
Tapecon Inc Rochester NY	716-621-8400
TDK Corp Tokyo Japan	03-278-5111
Tech-Etch Inc Plymouth MA	617-747-0300
Technit Cranford NJ	201-272-5500
Topflight Corp York PA	717-843-9901
TRW Connector Div Elk Grove Village IL	312-981-6000
TWP Berkeley CA	415-548-4434
Unifab Inc Hampstead NH	603-329-8205
Whitmor Wire & Cable Corp	
North Hollywood CA	818-764-6296
Wilson-Fiberril International Evansville IN	800-457-3763
Zippertubing Co Los Angeles CA	213-321-3901

SHIELDING TAPES

EAGLE MAGNETIC CO INC	
INDIANAPOLIS IN	317-297-1030
ADV PG 419	
MAGNETIC SHIELD DIV PERFECTION MICA CO	
BENSENVILLE IL	312-766-7800
ADV PG 418	
TECKNIT CRANFORD NJ	201-272-5500
Adhesives Research Inc Glen Rock PA	217-235-7979
Ad-Vance Magnetics Inc Rochester IN	219-223-3158
Allegheny Ludlum Steel Corp Pittsburgh PA	412-394-2800
Amunel Mfg Corp Philadelphia PA	215-535-3000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Chase & Sons Inc Randolph MA	617-963-2800
Chemical Fabrics Corp Merrimack NH	603-424-9000
Chomerics Inc Woburn MA	617-935-4850
Chomerics Laminates Inc Hudson NH	603-880-4807
Eagle Magnetic Co Inc Indianapolis IN	317-297-1030
Emerson & Cuming Canton MA	617-828-3300
Etchomatic Inc Waltham MA	617-893-2020
Ideal Tape Inc Div Chelsea Industries	
Lowell MA	617-458-6833
Keene Corp Laminates Div	
East Providence RI	401-434-2340
Lamart Corp Clifton NJ	201-772-6262
Light Fabrications Inc Rochester NY	716-235-6310
Magnetic Shield Div Perfection Mica Co	
Bensenville IL	312-766-7800
Magnetics Div Spang Co Butler PA	412-282-8282
MuShield Co Malden MA	617-321-4410
Russell Industries Inc Oceanside NY	516-536-5000
SL Electronics Div SL Ind Inc Westville NJ	609-456-7300
Tapecon Inc Rochester NY	716-621-8400
Technit Cranford NJ	201-272-5500
T & F Div CHR Industries Inc	
Rolling Meadows IL	312-392-8090
Topflight Corp York PA	717-843-9901
Unifab Inc Hampstead NH	603-329-8205
Zippertubing Co Los Angeles CA	213-321-3901

SHIELDING, WIRE—BRAIDED (INCL. IGNITION)

MAGNETIC SHIELD DIV PERFECTION MICA CO	
BENSENVILLE IL	312-766-7800
ADV PG 418	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
TECKNIT CRANFORD NJ	201-272-5500

Alden Products Co Brockton MA	617-583-0160
Alpha Wire Corp Elizabeth NJ	201-925-8000
American Electric Cable Co Holyoke MA	413-539-9893
Birnback Co Inc Farmingdale NY	516-420-9800
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Carol Cable Co Inc Electn Cables Div	
Pawtucket RI	401-724-9605
Chomerics Inc Woburn MA	617-935-4850
Coaxco Inc Tualatin OR	503-892-2900
Electro Cords Div Middlebury IN	219-625-9466
Estes Engineering Co Port Angeles WA	206-457-0904
Icore International Inc Sunnyvale CA	408-732-5400
Lenz Electric Mfg Co Chicago IL	312-276-4454
Magnetic Shield Div Perfection Mica Co	
Bensenville IL	312-766-7800
Manger Electric Co Inc Stamford CT	203-348-7761
New England Electric Wire Corp Lisbon NH	603-838-6629
Sager Hingham MA	617-749-6700
Santa Fe Textiles Inc Santa Ana CA	714-751-7733
Spectrum Control Inc Erie PA	814-455-0966
Technit Cranford NJ	201-272-5500
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
Topflight Corp York PA	717-843-9901
Whitmor Wire & Cable Corp	
North Hollywood CA	818-764-6296
Zippertubing Co Los Angeles CA	213-321-3901

SHIELDING—WOVEN WIRE

MAGNETIC SHIELD DIV PERFECTION MICA CO	
BENSENVILLE IL	312-766-7800
ADV PG 418	
TECKNIT CRANFORD NJ	201-272-5500
Alpha Wire Corp Elizabeth NJ	201-925-8000
Bentley-Harris Mfg Co Lionville PA	215-363-2600
Chomerics Inc Woburn MA	617-935-4850
Estes Engineering Co Port Angeles WA	206-457-0904
Magnetic Shield Div Perfection Mica Co	
Bensenville IL	312-766-7800
Spectrum Control Inc Erie PA	814-455-0966
Technit Cranford NJ	201-272-5500
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
TWP Berkeley CA	415-548-4434
Unique Wire Weaving Co Inc Hillside NJ	201-688-4600
Wire Cloth Manufacturers Inc Radolph NJ	201-328-1000
Zippertubing Co Los Angeles CA	213-321-3901

SHIELDS—LAMP

See Lamp Shields

SHIELDS, TUBE—CATHODE-RAY TUBE, INSULATING

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
EAGLE MAGNETIC CO INC	
INDIANAPOLIS IN	317-297-1030
ADV PG 419	
Ad-Vance Magnetics Inc Rochester IN	219-223-3158
Alpha Electronics Inc Brooklyn NY	718-633-2800
Amunel Mfg Corp Philadelphia PA	215-535-3000
Eagle Magnetic Co Inc Indianapolis IN	317-297-1030
Formulated Resins Inc Greenville RI	401-949-2060
Jan Hardware Mfg Co Inc	
Long Island City NY	212-361-0800
Magnetic Radiation Labs Elk Grove Village IL	312-437-5200
MuShield Co Malden MA	617-321-4410

SHIELDS, TUBE—CATHODE-RAY TUBE, MAGNETIC

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
EAGLE MAGNETIC CO INC	
INDIANAPOLIS IN	317-297-1030
ADV PG 419	
MAGNETIC SHIELD DIV PERFECTION MICA CO	
BENSENVILLE IL	312-766-7800
ADV PG 418	
Ad-Vance Magnetics Inc Rochester IN	219-223-3158
Allegheny Ludlum Steel Corp Pittsburgh PA	412-394-2800
Alpha Electronics Inc Brooklyn NY	718-633-2800
Amunel Mfg Corp Philadelphia PA	215-535-3000
Eagle Magnetic Co Inc Indianapolis IN	317-297-1030
Inter-Technical Group Inc Irvington NY	914-591-8822
Jan Hardware Mfg Co Inc	
Long Island City NY	212-361-0800
Magnetic Radiation Labs Elk Grove Village IL	312-437-5200
Magnetic Shield Div Perfection Mica Co	
Bensenville IL	312-766-7800
MuShield Co Malden MA	617-321-4410
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
Zippertubing Co Los Angeles CA	213-321-3901

SHIELDS, TUBE—ELECTROSTATIC

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
EAGLE MAGNETIC CO INC	
INDIANAPOLIS IN	317-297-1030
ADV PG 419	
3M CO STATIC CONTROL SYSTEMS	
AUSTIN TX	800-328-1368
Acheson Colloids Co Port Huron MI	313-984-5581
Ad-Vance Magnetics Inc Rochester IN	219-223-3158
Alpha Electronics Inc Brooklyn NY	718-633-2800
Amunel Mfg Corp Philadelphia PA	215-535-3000
Eagle Magnetic Co Inc Indianapolis IN	317-297-1030
International Electronic Research Corp	
Burbank CA	213-849-2481

Light Fabrications Inc Rochester NY	716-235-6310
Magnetic Radiation Labs Elk Grove Village IL	312-437-5200
3M Co Static Control Systems Austin TX	800-328-1368
MuShield Co Malden MA	617-321-4410
Olympic Plastics Co Los Angeles CA	213-837-5700
Plastics Systems Inc Marlboro MA	617-485-7700

SHIELDS, TUBE—HEAT DISSIPATING

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
Alpha Electronics Inc Brooklyn NY	718-633-2800
Atlee Inc North Andover MA	617-681-1100
Eby Co Philadelphia PA	215-969-4700
International Electronic Research Corp	
Burbank CA	213-849-2481
Richmond Technology Inc Redlands CA	714-794-1000

SHIFTERS

See Phase Shifters; Microwave Phase Shifters

SHIPPING MATERIALS

See Boxes; Cases; Packaging Materials

SHIPPING SERVICES

Delta Air Lines Inc. Atlanta GA	404-762-2700
Donray Co Cleveland OH	216-449-6400
Republic Packaging Corp Chicago IL	212-233-6500

SHOCK MOUNTS

See Vibration & Shock Mounts

SHOCK TEST EQUIPMENT

BLUE M UNIT OF GENERAL SIGNAL	
BLUE ISLAND IL	312-385-9000
ADV PG 84	
TENNEY ENGINEERING INC UNION NJ	201-686-7800
ADV PG 84	
Blue M Unit of General Signal Blue Island IL	312-385-9000
Endevco San Juan Capistrano CA	714-493-8100
Jan Hardware Mfg Co Inc	
Long Island City NY	212-361-0800
Larson Aero Development Martinez CA	415-228-7800
Macrodyne Inc Schenectady NY	518-356-3600
Mechanization Assocs Mt View CA	415-967-4700
MTS Systems Corp Minneapolis MN	612-937-4000
Sparton Technology Inc Rio Rancho NM	505-892-5300
Spectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA	619-268-7100
Tenney Engineering Inc Union NJ	201-686-7800

SHOCK & VIBRATION MOUNTS

See Vibration & Shock Mounts

SHORTS—SLIDING

See Microwave Tuners

SHORT-WAVE EQUIPMENT

See Communications Equipment Reference List

SHUNTS—METER

See Meter Shunts

SIGNAL CONVERTERS

See Converters

SIGNAL GENERATORS

See Generators—Signal

SIGNAL TRACERS

See Testers—Signal Tracing

SILICON DEVICES

See Type Desired (Diodes; ICs Listings; Rectifiers; Etc.)

SILICON & SILICON CARBIDE

See Semiconductors

SILICONE ENCAPSULANTS

See Plastics Molding Compounds; Potting Compounds

SILICONE GREASE

CKNIT CRANFORD NJ	201-272-5500
vid Engineering Inc Laconia NH.....	603-524-4443
Ray Co Inc Farmingdale NJ.....	201-938-2421
stall Inc E Weymouth MA.....	617-337-6075
ow Corning Corp Midland MI.....	517-496-4000
ey Chemical Inc Princeton Junction NJ.....	609-799-3191
haloy Inc Hanover NJ.....	201-887-9270
elony Industries Inc Walnut CA.....	714-594-1891
erson & Cuming Canton MA.....	617-828-3300
sex Group/IWI Ft Wayne IN.....	219-461-4000
rmulated Resins Inc Greenville RI.....	401-949-2060
2 Electronics Div Household Intl.....	815-968-9661
Rockford IL.....	518-237-3330
neral Electric Co Silicone Prods Div.....	518-237-3330
Waterford NY.....	518-237-3330
ereco Div Metachem Resins Corp.....	401-828-4550
Warwick RI.....	617-996-6721
re Inc William F New Bedford MA.....	715-635-8711
wn Co Inc Spooner WI.....	213-323-6162
erex Corp Gardena CA.....	517-263-5711
VS Silicones Corp Adrian MI.....	201-272-5500
cknit Cranford NJ.....	617-391-5550
a-Con Inc Medford MA.....	617-391-5550
ansene Co Inc Rowley MA.....	617-948-2501

SILICONE RUBBER

ILIPS ECG INC WALTHAM MA	617-890-6107
IE Corp Little Falls NJ.....	201-256-3939
ple Rubber Products Inc Lancaster NY.....	716-684-6560
burn Mfg Co Middletown CT.....	203-346-8677
con Industries Inc Watertown MA.....	617-926-2550
rgquist Co Minneapolis MN.....	612-835-2322
stall Inc E Weymouth MA.....	617-337-6075
omerics Inc Woburn MA.....	617-935-4850
IR Industries Inc New Haven CT.....	203-777-3631
vcorn Corp Danvers MA.....	617-777-1100
ow Corning Corp Midland MI.....	517-496-4000
ey Chemical Inc Princeton Junction NJ.....	609-799-3191
erson & Cuming Canton MA.....	617-828-3300
sex Group/IWI Ft Wayne IN.....	219-461-4000
rmulated Resins Inc Greenville RI.....	401-949-2060
neral Electric Co Silicone Prods Div.....	518-237-3330
Waterford NY.....	518-237-3330
rdman Incorporated Belleville NJ.....	201-751-3000
khill Rubber Co Brea CA.....	714-529-4901
chanical Rubber Products Corp.....	914-986-2271
Warwick NY.....	914-986-2271
ereco Div Metachem Resins Corp.....	401-828-4550
Warwick RI.....	201-338-6800
nor Rubber Co Inc Bloomfield NJ.....	414-554-5050
xpress Products Inc Racine WI.....	414-487-8080
Jili-Flex Seals Inc Hackensack NJ.....	215-672-0787
IK Elastomerics Inc Hatboro PA.....	617-890-6107
ILIPS ECG Inc Waltham MA.....	617-890-6107
America Inc San Jose CA.....	408-947-0311
Technology Bensenville IL.....	312-766-6711
erex Corp Gardena CA.....	213-323-6162
VS Silicones Corp Adrian MI.....	517-263-5711
chnical Specialties Co Inc Spring Valley NY.....	914-425-9700
national Industries Inc Rochester NY.....	716-232-1291
ansene Co Inc Rowley MA.....	617-948-2501
may Lab Inc Yellow Springs OH.....	513-767-7261

SILICON FOUNDRIES

See Production Services—Semiconductor

SILK-SCREEN INKS—CONDUCTIVE

IN HUNT SPECIALTY PRODUCTS INC WEST PATERSON NJ	201-977-6000
cheson Colloids Co Port Huron MI.....	313-984-5581
Advanced Coatings & Chemicals.....	818-579-6270
Temple City CA.....	617-935-4850
omerics Inc Woburn MA.....	201-887-9270
haloy Inc Hanover NJ.....	201-887-9270
ectronic Materials Div Ferro Corp.....	805-968-5000
Santa Barbara CA.....	215-272-8000
ectro-Science Labs Inc King of Prussia PA.....	201-321-5900
gelhard Industries Iselin NJ.....	617-667-3805
oxy Technology Inc Billerica MA.....	401-949-2060
Formulated Resins Inc Greenville RI.....	213-968-6511
ysol Div The Dexter Corp Industry CA.....	201-343-8983
aster Bond Inc Englewood NJ.....	201-343-8983
ereco Div Metachem Resins Corp.....	401-828-4550
Warwick RI.....	312-867-9600
icro-Circuits Co New Buffalo MI.....	616-469-2727
in Hunt Specialty Products Inc.....	201-977-6000
West Paterson NJ.....	203-564-2741
nel Industries Plainfield CT.....	716-278-9400
rm Ceramics Inc Niagara Falls NY.....	415-487-5860
chnology Glass Div Union City CA.....	415-487-5860

SILK-SCREEN INKS—DIELECTRIC

Advanced Coatings & Chemicals.....	818-579-6270
Temple City CA.....	818-579-6270
ectronic Materials Div Ferro Corp.....	805-968-5000
Santa Barbara CA.....	215-272-8000
ectro-Science Labs Inc King of Prussia PA.....	201-321-5900
gelhard Industries Iselin NJ.....	617-667-3805
chomatic Inc Waltham MA.....	401-949-2060
rmulated Resins Inc Greenville RI.....	213-968-6511
acDermid Inc Waterbury CT.....	203-575-5600
aster Bond Inc Englewood NJ.....	201-343-8983
ereco Div Metachem Resins Corp.....	401-828-4550
Warwick RI.....	617-948-2501
ansene Co Inc Rowley MA.....	617-948-2501

SILK-SCREEN INKS—MARKING

KEPRO CIRCUIT SYSTEMS INC FENTON MO	314-343-1630
Eastern Marking Machines Hempstead NY.....	516-483-7070
Epoxy Technology Inc Billerica MA.....	617-667-3805
Etchomatic Inc Waltham MA.....	617-893-2020
Formulated Resins Inc Greenville RI.....	401-949-2060
Hysol Div The Dexter Corp Industry CA.....	213-968-6511
Kepron Circuit Systems Inc Fenton MO.....	314-343-1630
MacDermid Inc Waterbury CT.....	203-575-5600
Markem Corp Keene NH.....	603-352-1130
Naz-Dar Co Chicago IL.....	312-943-8338
Shannon Luminous Materials Inc.....	714-432-0122
Santa Ana CA.....	714-432-0122

SILK-SCREEN INKS—RESISTIVE

KEPRO CIRCUIT SYSTEMS INC FENTON MO	314-343-1630
OLIN HUNT SPECIALTY PRODUCTS INC WEST PATERSON NJ	201-977-6000
Acheson Colloids Co Port Huron MI.....	313-984-5581
Advanced Coatings & Chemicals.....	818-579-6270
Temple City CA.....	818-579-6270
Electronic Materials Div Ferro Corp.....	805-968-5000
Santa Barbara CA.....	215-272-8000
Electro-Science Labs Inc King of Prussia PA.....	201-321-5900
Engelhard Industries Iselin NJ.....	617-893-2020
Etchomatic Inc Waltham MA.....	401-949-2060
Formulated Resins Inc Greenville RI.....	213-968-6511
Hysol Div The Dexter Corp Industry CA.....	314-343-1630
Kepron Circuit Systems Inc Fenton MO.....	203-575-5600
MacDermid Inc Waterbury CT.....	203-575-5600
Mereco Div Metachem Resins Corp.....	401-828-4550
Warwick RI.....	616-469-2727
Micro-Circuits Co New Buffalo MI.....	312-943-8338
Naz-Dar Co Chicago IL.....	312-943-8338
Olin Hunt Specialty Products Inc.....	201-977-6000
West Paterson NJ.....	617-948-2501
Transene Co Inc Rowley MA.....	617-948-2501

SILK-SCREEN PREPARATION SERVICES

MEA DIV UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY	607-772-7563
TETKO INC ELMFORD NY	914-592-5010
ADV PG 421.....	
UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY	607-775-1102
ADV PG 371.....	
Aremco Products Inc Ossining NY.....	914-762-0685
Argent Industries Inc Englewood OH.....	513-836-8633
Engineered Technical Products Inc.....	201-725-0330
Somerville NJ.....	312-463-6211
Fotofabrication Corp Chicago IL.....	704-864-9777
Harwell Enterprises Inc Gastonia NC.....	315-331-7742
IEC Electronics Corp Newark NJ.....	308-697-4711
K C Industries Inc Cambridge NE.....	308-697-4711
MEA Div Universal Instruments Corp.....	607-772-7563
Binghamton NY.....	607-772-7563
Micro Screen Precision Prods Inc.....	219-232-4358
South Bend IN.....	312-943-8338
Naz-Dar Co Chicago IL.....	805-967-4521
Neal Feay Co Goleta CA.....	918-297-2566
Oklahoma Aerotronics Inc Hartshorne OK.....	602-271-0921
Optifab Inc Phoenix AZ.....	312-451-1505
Pacific Industries Div D'Angelo Entrps.....	704-765-4241
Franklin Park IL.....	415-487-5860
Spruce Pine Mica Co Inc Spruce Pine NC.....	914-592-5010
Technology Glass Div Union City CA.....	301-375-8666
Tetko Inc Elmford NY.....	717-843-9901
Thickfilm Intl Indian Head MD.....	607-775-1102
Unifab Inc Hampstead NH.....	219-232-5400
Universal Instruments Corp Binghamton NY.....	607-775-1102
Weltek Intl Inc South Bend IN.....	219-232-5400

SILK-SCREEN PRINTED CIRCUITS

See Printed Circuits

SILK-SCREEN PRINTING EQUIPMENT

MEA DIV UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY	607-772-7563
UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY	607-775-1102
Affiliated Manufacturers Inc North Branch NJ.....	201-722-7100
American Ultraviolet Co Chatham NJ.....	201-635-8355
Chemcut Corp State College PA.....	814-238-0514
Engineered Technical Products Inc.....	201-725-0330
Somerville NJ.....	617-893-2020
Etchomatic Inc Waltham MA.....	518-295-8101
Harva Co Inc Schoharie NY.....	704-864-9777
Harwell Enterprises Inc Gastonia NC.....	308-697-4711
K C Industries Inc Cambridge NE.....	603-352-1130
Markem Corp Keene NH.....	603-352-1130
MEA Div Universal Instruments Corp.....	607-772-7563
Binghamton NY.....	312-943-8338
Naz-Dar Co Chicago IL.....	718-643-1770
Ulan Corp Brooklyn NY.....	607-775-1102
Universal Instruments Corp Binghamton NY.....	818-285-3123
UVP Inc San Gabriel CA.....	219-232-5400
Weltek Intl Inc South Bend IN.....	219-232-5400

SILK-SCREEN PRINTING SERVICES

See Printed Circuits; Production

Services—Metalizing, Print & Fire



PRECISION WOVEN SWISS WIRE CLOTH & FABRIC SCREENS

PeCap® Monofilament Polyester
Best synthetic fabric for printed circuits. Minimal elasticity for high registration accuracy, fine line reproduction. Up to 470 mesh per inch.

PeCap-M Metalized Polyester
Offers excellent adherence for indirect film emulsions; combines the best properties of polyester and fine wire. Up to 390 mesh per inch.

Tetko Fine Wire Stencil Cloth
Stainless steel mesh with the highest abrasion and stretch resistance of all screen materials. Up to 635 mesh per inch for ultra-critical printing of PC boards and microcircuits.

Tetko Emulsions & Screen Supplies

TETKO INC
(Metro New York City)
420 Saw Mill River Road
Elmsford, N. Y. 10523
(914) 592-5010 Telex 13-7331
(Atlanta)
Perimeter Park, Bldg. 18
Chamblee, Ga. 30341
(404) 451-3036
(Chicago)
5050 Newport Drive, Suite 1
Rolling Meadows, Ill. 60008
(312) 253-1340 Telex 726435
(Los Angeles)
525 Monterey Pass Road
Monterey Park, Cal. 91754
(818) 289-9153 Telex 674201
B. & S. H. THOMPSON & CO., LTD.
Montreal and Toronto, Canada

SILK SCREENS (INCL. MESH SCREENS)

KEPRO CIRCUIT SYSTEMS INC FENTON MO	314-343-1630
MEA DIV UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY	607-772-7563
TETKO INC ELMFORD NY	914-592-5010
ADV PG 421.....	
UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY	607-775-1102
Affiliated Manufacturers Inc North Branch NJ.....	201-722-7100
Apahouser-Elcom Inc Watertown MA.....	617-924-1505
Engineered Technical Products Inc.....	201-725-0330
Somerville NJ.....	617-893-2020
Etchomatic Inc Waltham MA.....	704-864-9777
Harwell Enterprises Inc Gastonia NC.....	212-361-0800
Jan Hardware Mfg Co Inc.....	314-343-1630
Long Island City NY.....	603-352-1130
Kepron Circuit Systems Inc Fenton MO.....	607-772-7563
Markem Corp Keene NH.....	219-232-4358
MEA Div Universal Instruments Corp.....	312-943-8338
Binghamton NY.....	602-271-0921
Micro Screen Precision Prods Inc.....	213-248-3211
South Bend IN.....	415-487-5860
Naz-Dar Co Chicago IL.....	914-592-5010
Optifab Inc Phoenix AZ.....	301-375-8666
Precision Crafts Inc La Crescenta CA.....	415-548-4434
Technology Glass Div Union City CA.....	201-688-4600
Tetko Inc Elmford NY.....	607-775-1102
Thickfilm Intl Indian Head MD.....	219-232-5400
TWP Berkeley CA.....	
Unique Wire Weaving Co Inc Hillside NJ.....	
Universal Instruments Corp Binghamton NY.....	
Weltek Intl Inc South Bend IN.....	

SILVER

See Metals; Wire—Bare

SILVER PLATING

See Production Services—Plating

SIMULATORS

See Aircraft Flight Simulators; Demonstrators;

Radar Target Simulators; Synchro Resolver

Simulators

See Also Chambers—Environmental Test

SIMULATORS—NOISE

Burtek Tulsa OK	918-836-4621
Electronic Associates Inc	
West Long Branch NJ	201-229-1100
New Wave Instruments San Jose CA	408-629-3105
Schaffner EMC Inc Instrument Div Union NJ	201-851-0644

SINGLE-SIDEBAND EQUIPMENT

See Communications Equipment Reference List

SLEEVEING

CONCORD ELECTRONICS CORP	
NEW YORK NY	212-777-6571
CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
Autosplice Inc Woodside NY	718-429-0500
Bentley-Harris Mfg Co Lionville PA	215-363-2600
Birnback Co Inc Farmingdale NY	516-420-9800
Brady Co W H Industrial Prods Div	
Milwaukee WI	414-351-6630
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Concord Electronics Corp New York NY	212-777-6571
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Gilbreth International Corp Cornwells Hgts PA	215-638-7100
GSi Corp Timonium MD	301-252-1768
King Wire & Cable Corp Jamaica NY	718-657-4422
Kulka Smith Inc Manassquan NJ	201-223-9400
Merkel Corp Norristown PA	215-272-8960
Natvar Co Div High Voltage Eng Clayton NC	919-553-4151
Norton Performance Plastics Wayne NJ	201-696-4700
Panduit Corp Tinley Park IL	312-532-1800
Precision Paper Tube Co Wheeling IL	312-537-4250
Santa Fe Textiles Inc Santa Ana CA	714-751-7733
Sinclair & Rush Inc St Louis MO	314-481-2450
SPC Technology Bensenville IL	312-766-6711
Technical Specialties Co Inc Spring Valley NY	914-425-9700
Vartex Corp Rome NY	315-336-4400
Zippertubing Co Los Angeles CA	213-321-3901

SLIDES

See Chassis Slides

SLIDING SHORTS

See Microwave Tuners

SLIP-RING ASSEMBLIES

See Also Commutators

GRAPHITE METALLIZING CORP	
YONKERS NY	914-968-8400
ADV PG 47	
IMC/HANSEN MFG CO INC SUB	
PRINCETON IN	812-385-3415
ADV PG Back Cover	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
Advance Carbon Products Inc Brisbane CA	415-468-1670
Airflyte Electronics Co Bayonne NJ	201-436-2230
Collection Corp Elmhurst NY	718-429-5200
Electro-Tec Corp Blacksburg VA	703-552-2111
Fabricast Inc South El Monte CA	818-443-3247
Fifth Dimension Inc Trenton NJ	609-393-8350
Graphite Metallizing Corp Yonkers NY	914-968-8400
Guideline Instruments Inc Orlando FL	305-423-8215
Hottinger Baldwin Measurements Inc	
Framingham MA	617-875-8282
IMC/Hansen Mfg Co Inc Sub Princeton IN	812-385-3415
Lebow Products/Eaton Corp Troy MI	313-643-0220
Maurey Instrument Corp Chicago IL	312-581-4555
Meridian Lab Middleton WI	608-836-7571
Michigan Scientific Corp Milford MI	313-684-0035
Morganite Inc Dunn NC	919-892-8081
Omega Engineering Inc Stamford CT	203-359-1660
Poly-Scientific Litton Systems Inc	
Blacksburg VA	703-552-3011
Superior Carbon Products Inc Cleveland OH	216-883-4880
Unit Industries Inc Fullerton CA	714-871-4161
West Coast Research Corp Los Angeles CA	213-478-8833

SLIP RINGS

GRAPHITE METALLIZING CORP	
YONKERS NY	914-968-8400
ADV PG 47	
PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA	617-226-1200
Advance Carbon Products Inc Brisbane CA	415-468-1670
Collection Corp Elmhurst NY	718-429-5200
Electro-Tec Corp Blacksburg VA	703-552-2111
Fabricast Inc South El Monte CA	818-443-3247
Fifth Dimension Inc Trenton NJ	609-393-8350
Graphite Metallizing Corp Yonkers NY	914-968-8400
Maurey Instrument Corp Chicago IL	312-581-4555
Mercotac Inc San Diego CA	619-566-2750
Meridian Lab Middleton WI	608-836-7571
Poly-Scientific Litton Systems Inc	
Blacksburg VA	703-552-3011
Precision Metallurgical Corp A Leach & Garner Co	
Attleboro MA	617-226-1200

St Marys Carbon Co St Marys PA	814-781-7333
Superior Carbon Products Inc Cleveland OH	216-883-4880
Unit Industries Inc Fullerton CA	714-871-4161
West Coast Research Corp Los Angeles CA	213-478-8833

SLOTTED SECTIONS

See Microwave Slotted Sections

SMOCKS

See Clothing—Lint Free

SMOKE CONTROLS

See Controls—Combustion; Recorders—Smoke

SOCKET

ASSEMBLIES—BREADBOARDING

See Breadboards

SOCKETS—CRYSTAL

CONNECTOR CORP CHICAGO IL	312-539-3108
ADV PG 125	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
PHILIPS ECG INC WALTHAM MA	617-890-6107
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Accurate Electronics Corp Elyria OH	216-365-1211
Advanced Interconnections Corp Warwick RI	401-885-0485
Asmann Components/ebm Inds Unionville CT	203-674-1515
Augat Inc Attleboro MA	617-222-2202
Circuit Assembly Corp Irvine CA	714-855-7887
Connector Corp Chicago IL	312-539-3108
Eby Co Philadelphia PA	215-969-4200
Electronic Molding Corp Woonsocket RI	401-769-3800
Loranger Intl Corp Warren PA	814-723-2250
Master Electronic Controls Los Angeles CA	213-452-1336
Methode Electronics Inc Chicago IL	312-867-9600
Methode Electronics Inc Interconnect Prods Div	
Rolling Meadows IL	312-392-3500
Peerless Radio Corp Lynbrook NY	516-593-2121
Philips ECG Inc Waltham MA	617-890-6107
Robinson Nugent Inc New Albany IN	812-945-0211
Ross Co Milton Southampton PA	215-355-0200
Samtec Inc New Albany IN	812-944-6733
Sealec Corp Trumbull CT	203-372-4118
Shokai Far East Ltd Hartsdale NY	914-681-0700
SMK Electronics Corp USA Placentia CA	714-996-0960

SOCKETS—DIODE

KEYSTONE ELECTRONICS CORP	
NEW YORK NY	212-475-4600
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Accurate Electronics Corp Elyria OH	216-365-1211
Asmann Components/ebm Inds Unionville CT	203-674-1515
Autosplice Inc Woodside NY	718-429-0500
Circuit Assembly Corp Irvine CA	714-855-7887
Keystone Electronics Corp New York NY	212-475-4600
Loranger Intl Corp Warren PA	814-723-2250
Master Electronic Controls Los Angeles CA	213-452-1336
Methode Electronics Inc Chicago IL	312-867-9600
Molex Inc Lisle IL	312-969-4550
Peerless Radio Corp Lynbrook NY	516-593-2121
Robinson Nugent Inc New Albany IN	812-945-0211
Ross Co Milton Southampton PA	215-355-0200
Samtec Inc New Albany IN	812-944-6733
Sealec Corp Trumbull CT	203-372-4118
Textool Products/3M Irving TX	214-259-2676
TRW Connector Div Elk Grove Village IL	312-981-6000
Wells Electronics Inc South Bend IN	219-287-5941

SOCKETS—INTEGRATED CIRCUITS

ALCO ELECTRONIC PRODUCTS INC	
NORTH ANDOVER MA	617-685-4371
ALMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
AMP INCORPORATED HARRISBURG PA	717-564-0100
ADV PG 117	
AROMAT CORP MOUNTAINSIDE NJ	201-232-4260
ITT COMPONENTS DIV SANTA ANA CA	714-836-0351
MUPAC CORP BROCKTON MA	617-588-6110
ADV PG 314	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
PHILIPS ECG INC WALTHAM MA	617-890-6107
SADA ELETTRONICA SPA PAVIA ITALY	382-4669 31
ADV PG 127	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Accessories for Electronics Inc Baldwin NY	516-546-1751
Accurate Electronics Corp Elyria OH	216-365-1211
Advanced Interconnections Corp Warwick RI	401-885-0485
Ald Electronics Inc Irving TX	214-790-4761
Ald Electronics Products Inc	
North Andover MA	617-685-4371
Almo Electronics Inc Philadelphia PA	215-698-4000
AMP Incorporated Harrisburg PA	717-564-0100
Aries Electronics Inc Frenchtown NJ	201-996-6841
Aromat Corp Mountainside NJ	201-232-4260
Asmann Components/ebm Inds Unionville CT	203-674-1515
Augat Inc Attleboro MA	617-222-2202
Autosplice Inc Woodside NY	718-429-0500

Azimuth Electronics Inc San Clemente CA	714-492-64
Burdny Corp Norwalk CT	203-838-44
Circuit Assembly Corp Irvine CA	714-855-7887
Douglas Electronics San Leandro CA	415-483-87
DuPont Connector Systems Camp Hill PA	717-975-20
Eby Co Philadelphia PA	215-969-42
Electronic Molding Corp Woonsocket RI	401-769-38
GC Electronics Div Household Intl	
Rockford IL	815-968-96
Gibson-Egan Co Duarte CA	818-358-01
Global Specialties Corp New Haven CT	203-624-31
I C Probatics Inc Longwood FL	305-339-82
Idec Izumi Corp Osaka Japan	81-6-20053
IDEC Systems & Controls Corp	
Santa Clara CA	408-988-75
Industrial Electronic Hardware Corp	
New York NY	212-677-18
Injectorall Electronics Corp Glen Cove NY	516-671-11
Interyne Co Van Nuys CA	213-787-66
ITT Cannon Fountain Valley CA	714-557-47
ITT Components Div Santa Ana CA	714-836-03
JOLO Industries Inc Garden Grove CA	714-554-68
Kel-Am Inc Eldon MO	314-392-71
Kulka Smith Inc Manassquan NJ	201-223-94
Lectron Industries Inc Roselle NJ	201-245-58
Loranger Intl Corp Warren PA	814-723-22
Master Electronic Controls Los Angeles CA	213-452-13
Masterite Industries Corp Torrance CA	213-775-34
Methode Electronics Inc Chicago IL	312-867-96
Methode Electronics Inc Interconnect Prods Div	
Rolling Meadows IL	312-392-35
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-54
3M-Electronic Products Div Austin TX	512-834-18
Molex Inc Lisle IL	312-969-45
Mupac Corp Brockton MA	617-588-61
Nesco Battery Sys Div Natl Electro-Sales Corp	
Van Nuys CA	818-781-05
Northern Automatic Assembly Inc	
Shoreview MN	612-481-00
Nova-Tronix Inc Santa Clara CA	408-727-95
O K Industries Bronx NY	212-994-66
Park Distributors Inc Bridgeport CT	203-366-72
Peerless Radio Corp Lynbrook NY	516-593-21
Philips ECG Inc Waltham MA	617-890-61
Precision Connector Designs Inc	
Winchester MA	617-721-12
Robinson Nugent Inc New Albany IN	812-945-02
Ross Co Milton Southampton PA	215-355-02
SADA Elettronica SpA Pavia Italy	382-4669
Sager Hingham MA	617-749-67
Samtec Inc New Albany IN	812-944-67
Scanbe Div Zero Corp El Monte CA	818-579-23
Sealec Corp Trumbull CT	203-372-41
SMK Electronics Corp USA Placentia CA	714-996-09
SPC Technology Bensenville IL	312-766-67
Staffall Inc Providence RI	401-351-82
Teknatonal Industries Inc Rochester NY	716-232-12
Texas Instruments Optoelectronics Dallas TX	214-995-66
Texas Instruments Inc Connector Systems	
Attleboro MA	617-699-38
Textool Products/3M Irving TX	214-259-26
Thermalloy Inc Dallas TX	214-243-43
Thomas & Betts Corp Electronics Group	
Raritan NJ	201-469-40
TRW Connector Div Elk Grove Village IL	312-981-60
Vector Electronic Co Inc Sylmar CA	818-365-96
Wells Electronics Inc South Bend IN	219-287-59
Workman Electronic Products Inc	
Sarasota FL	800-237-66

SOCKETS—LAMP-DIAL, PANEL & PILOT

ALMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
MOUSER ELECTRONICS MANSFIELD TX	817-483-01
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Aeronautical Electric Co Chicago IL	312-784-52
Almo Electronics Inc Philadelphia PA	215-698-4000
Arcolectric Corp Canoga Park CA	818-700-19
Aries Electronics Inc Frenchtown NJ	201-996-68
Autosplice Inc Woodside NY	718-429-05
Auto-Swage Products Inc Shelton CT	203-929-14
Bruce Industries Inc Gardena CA	213 321-26
Buhl Industries Inc Fair Lawn NJ	201-423-28
Chicago Switch Inc Sub III Tool Wks	
Chicago IL	312-489-55
Circuit Assembly Corp Irvine CA	714-855-78
Data Display Products Los Angeles CA	213-640-04
Dialight Corp Brooklyn NY	718-497-76
Display Devices Inc Encinitas CA	714-753-01
GC Electronics Div Household Intl	
Rockford IL	815-968-96
Grimes Div Midland Ross Corp Urbana OH	513-652-14
Industrial Devices Inc Edgewater NJ	201-224-47
Industrial Electronic Hardware Corp	
New York NY	212-677-18
ITW Switches Chicago IL	312-282-40
Kory Electronics Co Seattle WA	206-281-13
Kulka Smith Inc Manassquan NJ	201-223-94
Ledco Div Wilbrecht Elctns Inc St Paul MN	612-222-27
Leecraft Mfg Co Inc Long Island City NY	718-392-88
Linrose Electronics Inc Plainville NY	516-293-25
Master Electronic Controls Los Angeles CA	213-452-13
Morse Co Frank W Saco ME	202-284-41
Mouser Electronics Mansfield TX	817-483-01
Permonite Mfg Co Palatine IL	312-358-00
Robinson Nugent Inc New Albany IN	812-945-02
Sager Hingham MA	617-749-67
Sakata Mfg Co Ltd Tokyo Japan	03-781-60
Schurter Inc Petaluma CA	707-778-63
Sealec Corp Trumbull CT	203-372-41
Shokai Far East Ltd Hartsdale NY	914-681-07
Soderberg Mfg Co Inc Walnut CA	714-595-12

C Technology Bensenville IL	312-766-6711
Qual Communications Co El Segundo CA	213-822-4727
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

SOCKETS—PENCIL TUBE

Grayhill Inc La Grange IL	312-354-1040
Grayhill Inc La Grange IL	312-354-1040
Industrial Electronic Hardware Corp	
New York NY	212-677-1881
Tron Products Inc East Hanover NJ	201-887-0571

SOCKETS—PRINTED CIRCUIT

Almo Electronics Inc Philadelphia PA	215-698-4000
ADV PG Green Pages	
Concord Electronics Corp	
New York NY	212-777-6571
Mark Eyelet Inc Sub AMP Inc	
Wolcott CT	203-756-8847
ADV PG 423	
IPAC Corp Brockton MA	617-588-6110
ADV PG 314	
Peerless Radio Corp Lynbrook NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Ger Hingham MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Accessories for Electronics Inc Baldwin NY	516-546-1751
Accurate Electronics Corp Elyria OH	216-365-1211
Advanced Interconnections Corp Warwick RI	401-885-0485
AID Electronics Inc Philadelphia PA	215-698-4000
Alan Inc Stamford CT	203-322-1913
IP Products Corp Southeastern PA	215-647-1000
Almo Electronics Inc North Bergen NJ	201-869-4201
Man Components/ebm Inds Unionville CT	203-674-1515
Augat Inc Attleboro MA	617-222-2202
Autosplice Inc Woodside NY	718-429-0500
Ad Electronics Div Bead Chain Mfg Co	
Bridgeport CT	203-334-4124
Concord Electronics Inc Trumbull CT	203-372-0038
Indy Corp Norwalk CT	203-838-4444
Concord Electronics Corp New York NY	212-777-6571
Point Connector Systems Camp Hill PA	717-975-2000
Y Co Philadelphia PA	215-969-4200
o Corp Newport Beach CA	714-476-0663
Electronics Div Household Intl	
Rockford IL	815-968-9661
pertronics Corp Hudson MA	617-568-0451
C Systems & Controls Corp	
Santa Clara CA	408-988-7500
Industrial Electronic Hardware Corp	
New York NY	212-677-1881
etorall Electronics Corp Glen Cove NY	516-671-6010
connect Devices Inc Kansas City KS	913-342-5544
o Industries Inc Garden Grove CA	714-554-6840
Kulka Smith Inc Manassas NJ	201-223-9400
inger Mfg Co Inc Long Island City NY	718-392-8800
anger Intl Corp Warren PA	814-723-2250
o Div Microdot Inc Montgomeryville PA	215-699-5373
rk Eyelet Inc Sub AMP Inc Wolcott CT	203-756-8847
ster Electronic Controls Los Angeles CA	213-452-1336
thode Electronics Inc Chicago IL	312-867-9600
thode Electronics Inc Interconnect Prods Div	
olling Meadows IL	312-392-3500
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
lex Inc Lisle IL	312-969-4550
pac Corp Brockton MA	617-588-6110
thern Automatic Assembly Inc	
horeview MN	612-481-0022
ey Developments Co Ltd	
lverston Cumbria England	0229-52621
k Distributors Inc Bridgeport CT	203-366-7200
erless Radio Corp Lynbrook NY	516-593-2121
iccontact Inc Langhorne PA	215-757-1202
I-Reed Devices Inc Sub Augat Inc	
Carol Stream IL	312-682-4100
olinson Nugent Inc New Albany IN	812-945-0211
ss Co Milton Southampton PA	215-355-0200
ger Hingham MA	617-749-6700
ntec Inc New Albany IN	812-944-6733
ras Instruments Inc Connector Systems	
Attleboro MA	617-699-3800
tool Products/3M Irving TX	214-259-2676
mas & Betts Corp Electronics Group	
aritan NJ	201-469-4000
W Connector Div Elk Grove Village IL	312-981-6000
ECO Div Litton Systems Inc Van Nuys CA	818-786-9381
tor Electronic Co Inc Sylmar CA	818-365-9661
rkman Electronic Products Inc	
Sarasota FL	800-237-6666

SOCKETS—RELAY

Almo Electronics Inc Philadelphia PA	215-698-4000
ADV PG Green Pages	
Concord Electronics Corp	
Woodside NY	718-899-4422
ADV PGS 119, 120	
COMPONENTS DIV SANTA ANA CA	714-836-0351
ERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
GER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
OKAI FAR EAST LTD HARTSDALE NY	914-681-0700
urate Electronics Corp Elyria OH	216-365-1211
anced Interconnections Corp Warwick RI	401-885-0485
en Products Co Brockton MA	617-583-0160
o Electronics Inc Philadelphia PA	215-698-4000
erican Plasticscraft Co Chicago IL	312-722-7727
erican Zettler Inc Irvine CA	714-660-1670

addresses, phones & sales offices, see green pages

AMP Products Corp Southeastern PA	215-647-1000
Arnel Electronics Inc North Bergen NJ	201-869-4201
Augat Inc Attleboro MA	617-222-2202
Automech Associates Inc North Haven CT	203-239-2233
Autosplice Inc Woodside NY	718-429-0500
Branson Corp Newton NJ	201-383-3132
Continental Connector Corp Woodside NY	718-899-4422
Curtis Industries Inc Milwaukee WI	414-354-1500
Custom Connector Corp Cleveland OH	216-241-1679
Dan-L Inc Northport NY	516-757-8000
Eby Co Philadelphia PA	215-969-4200
Electromatic Controls Corp	
Hoffman Estates IL	312-882-5757
Electromatic Equipment Co Inc	
Cedarhurst NY	516-295-4300
IDEC Systems & Controls Corp	81-6-2005530
Santa Clara CA	408-988-7500
Industrial Electronic Hardware Corp	
New York NY	212-677-1881
ITT Components Div Santa Ana CA	714-836-0351
ITT Pomona Electronics Pomona CA	714-623-3463
Kulka Smith Inc Manassas NJ	201-223-9400
Magnum Electric Erie MI	313-848-2555
Master Electronic Controls Los Angeles CA	213-452-1336
Methode Electronics Inc Chicago IL	312-867-9600
Methode Electronics Inc Interconnect Prods Div	
Rolling Meadows IL	312-392-3500
Midland-Ross Corp Midtex Div	
North Mankato MN	507-625-6521
Molex Inc Lisle IL	312-969-4550
Omron Electronics Inc Schaumburg IL	312-843-7900
Peerless Radio Corp Lynbrook NY	516-593-2121
Potter & Brumfield Div AMF Inc Princeton IN	812-386-1000
Precision Connector Designs Inc	
Winchester MA	617-721-1280
RDI-Reed Devices Inc Sub Augat Inc	
Carol Stream IL	312-682-4100
Robinson Nugent Inc New Albany IN	812-945-0211
Ross Co Milton Southampton PA	215-355-0200
Sager Hingham MA	617-749-6700
Schrack North America Inc Elmsford NY	914-592-1305
Schurter Inc Petaluma CA	707-778-6311
Shokai Far East Ltd Hartsdale NY	914-681-0700
SPC Technology Bensenville IL	312-766-6711
Struthers-Dunn Inc Pitman NJ	609-589-7500
TRW Connector Div Elk Grove Village IL	312-981-6000
Universal Relay Corp New York NY	212-925-6900
Viking Connectors Co Chatsworth CA	213-341-4330
Wall-Able Mfg Corp Chicago IL	312-440-1000
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

SOCKETS—SUBMINIATURE

Almo Electronics Inc Philadelphia PA	215-698-4000
ADV PG Green Pages	
Concord Electronics Corp	
New York NY	212-777-6571
Mark Eyelet Inc Sub AMP Inc	
Wolcott CT	203-756-8847
ADV PG 423	
Peerless Radio Corp Lynbrook NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Accurate Electronics Corp Elyria OH	216-365-1211
Almo Electronics Inc Philadelphia PA	215-698-4000
Aries Electronics Inc Frenchtown NJ	201-996-6841
Asmann Components/ebm Inds Unionville CT	203-674-1515
Augat Inc Attleboro MA	617-222-2202
Augat/Pylon Co Inc Attleboro Falls MA	617-699-7646
Autosplice Inc Woodside NY	718-429-0500
Concord Electronics Corp New York NY	212-777-6571
Dialight Corp Brooklyn NY	718-497-7600
Eby Co Philadelphia PA	215-969-4200
Enrico Seattle WA	206-762-1422
Grimes Div Midland Ross Corp Urbana OH	513-652-1431
Hypertronics Corp Hudson MA	617-568-0451
Injectorall Electronics Corp Glen Cove NY	516-671-6010
Jettison Products Inc East Hanover NJ	201-887-0571
Kulka Smith Inc Manassas NJ	201-223-9400
Leecraft Mfg Co Inc Long Island City NY	718-392-8800
LZR Electronics Inc Gaithersburg MD	301-921-9440
Mark Eyelet Inc Sub AMP Inc Wolcott CT	203-756-8847
Master Electronic Controls Los Angeles CA	213-452-1336
Methode Electronics Inc Chicago IL	312-867-9600
Methode Electronics Inc Interconnect Prods Div	
Rolling Meadows IL	312-392-3500
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
Molex Inc Lisle IL	312-969-4550
Oxley Developments Co Ltd	
Ulverston Cumbria England	0229-52621
Peerless Radio Corp Lynbrook NY	516-593-2121
RDI-Reed Devices Inc Sub Augat Inc	
Carol Stream IL	312-682-4100
Robinson Nugent Inc New Albany IN	812-945-0211
Ross Co Milton Southampton PA	215-355-0200
Sakata Mfg Co Ltd Tokyo Japan	03-781-6078
Textool Products/3M Irving TX	214-259-2676
TRW Connector Div Elk Grove Village IL	312-981-6000

SOCKETS—TRANSISTOR

Connector Corp Chicago IL	312-539-3108
ADV PG 125	
Grayhill Inc La Grange IL	312-354-1040
Keystone Electronics Corp	
New York NY	212-475-4600
Mark Eyelet Inc Sub AMP Inc	
Wolcott CT	203-756-8847
ADV PG 423	
Mouser Electronics Mansfield TX	817-483-0165
Philips ECG Inc Waltham MA	617-890-6107
Sager Hingham MA	617-749-6700
ADV PGS Green Pages/Footstrips	

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Advanced Interconnections Corp Warwick RI	401-885-0485
AID Electronics Inc Irving TX	214-790-4761
Amatom Electronic Hardware Co	
New Haven CT	203-397-3311
Aries Electronics Inc Frenchtown NJ	201-996-6841
Asmann Components/ebm Inds Unionville CT	203-674-1515
Augat Inc Attleboro MA	617-222-2202
Autosplice Inc Woodside NY	718-429-0500
Azimuth Electronics Inc San Clemente CA	714-492-6481
Blinn Co Inc Delbert Pomona CA	213-628-8794
Connector Corp Chicago IL	312-539-3108
Eby Co Philadelphia PA	215-969-4200
Elco Corp Newport Beach CA	714-476-0663
Electronic Essentials Inc Woodside NY	718-898-8300
Electronic Molding Corp Woonsocket RI	401-769-3800
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Grayhill Inc La Grange IL	312-354-1040
Industrial Electronic Hardware Corp	
New York NY	212-677-1881
Jettison Products Inc East Hanover NJ	201-887-0571
Keystone Electronics Corp New York NY	212-475-4600
Kulka Smith Inc Manassas NJ	201-223-9400
Loranger Intl Corp Warren PA	814-723-2250
Mark Eyelet Inc Sub AMP Inc Wolcott CT	203-756-8847
Master Electronic Controls Los Angeles CA	213-452-1336
Methode Electronics Inc Chicago IL	312-867-9600
Methode Electronics Inc Interconnect Prods Div	
Rolling Meadows IL	312-392-3500
3M-Electronic Products Div Austin TX	512-834-1800
Molex Inc Lisle IL	312-969-4550
Mouser Electronics Mansfield TX	817-483-0165
NTE Electronics Inc Bloomfield NJ	201-748-5089
Philips ECG Inc Waltham MA	617-890-6107
Robinson Nugent Inc New Albany IN	812-945-0211
Ross Co Milton Southampton PA	215-355-0200
Sager Hingham MA	617-749-6700
Samtec Inc New Albany IN	812-944-6733
Sealectro Corp Trumbull CT	203-372-4118
Teknational Industries Inc Rochester NY	716-232-1291
Textool Products/3M Irving TX	214-259-2676
TRW Connector Div Elk Grove Village IL	312-981-6000
Wall-Able Mfg Corp Chicago IL	312-440-1000
Wells Electronics Inc South Bend IN	219-287-5941
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

SOCKETS—TUBE

Alpha Electronics Inc Brooklyn NY	718-633-2800
Connector Corp Chicago IL	312-539-3108
ADV PG 125	
Shokai Far East Ltd Hartsdale NY	914-681-0700
Alden Products Co Brockton MA	617-583-0160

Alpha Electronics Inc Brooklyn NY	718-633-2800
American Plasticraft Co Chicago IL	312-722-7727
Connector Corp Chicago IL	312-539-3108
Eby Co Philadelphia PA	215-969-4200
Elmac Div Varian Associates San Carlos CA	415-592-1221
Electronic Essentials Inc Woodside NY	718-898-8300
Industrial Electronic Hardware Corp New York NY	212-677-1881
Interconnect Devices Inc Kansas City KS	913-422-5544
Jettison Products Inc East Hanover NJ	201-887-0571
Johnson Co E F/Components Div Waseca MN	507-835-6222
Loranger Intl Corp Warren PA	814-723-2250
Master Electronic Controls Los Angeles CA	213-452-1336
Methode Electronics Inc Chicago IL	312-867-9600
Methode Electronics Inc Interconnect Prods Div Rolling Meadows IL	312-392-3500
Molex Inc Lisle IL	312-969-4550
National Radio Components Div Strux Corp Lindenhurst NY	516-957-8000
Oneida Electronic Mfg Inc Meadville PA	814-336-2125
Permonite Mfg Co Palatine IL	312-358-0088
QA Technology Co Inc Exeter NH	603-772-3450
RDI-Reed Devices Inc Sub Augat Inc Carol Stream IL	312-682-4100
Ross Co Milton Southampton PA	215-355-0200
Schrack North America Inc Elmsford NY	914-592-1305
Shokai Far East Ltd Hartsdale NY	914-681-0700
SMK Electronics Corp USA Placentia CA	714-996-0960
Staffall Inc Providence RI	401-351-8282
TRW Connector Div Elk Grove Village IL	312-881-6000
Varian Electron Device Group Palo Alto CA	415-493-4000
Workman Electronic Products Inc Sarasota FL	800-237-6666

SOCKETS—WIRING PLUGS

CONNECTOR CORP CHICAGO IL	312-539-3108
ADV PG 125	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
POWER DYNAMICS INC	
WEST ORANGE NJ	201-736-5722
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Accurate Electronics Corp Elyria OH	216-365-1211
AMP Products Corp Southeastern PA	215-647-1000
Connector Corp Chicago IL	312-539-3108
Electronic Essentials Inc Woodside NY	718-898-8300
Industrial Electronic Hardware Corp New York NY	212-677-1881
Kulka Smith Inc Manassquan NJ	201-223-9400
Methode Electronics Inc Chicago IL	312-867-9600
Methode Electronics Inc Interconnect Prods Div Rolling Meadows IL	312-392-3500
Oxley Developments Co Ltd Ulverston Cumbria England	0229-52621
Panel Components Corp Santa Rosa CA	707-523-0600
Peerless Radio Corp Lynbrook NY	516-593-2121
Power Dynamics Inc West Orange NJ	201-736-5722
Robinson Nugent Inc New Albany IN	812-945-0211
Ross Co Milton Southampton PA	215-355-0200
Sager Hingham MA	617-749-6700
Scanbe Div Zero Corp El Monte CA	818-579-2300
SOS Lighting Devices Div MEMCO Philadelphia PA	215-423-7077
Walt-Able Mfg Corp Chicago IL	312-440-1000

SODIUM

See Metals—Alkaline

SOFTWARE—APPLICATIONS (CUSTOM & OEM LICENSING)

Action Instruments Inc San Diego CA	619-279-5726
American Hydromath Co Pawlet VT	802-325-3003
Amherst Systems Inc Buffalo NY	716-631-0610
Anasco Corp Wakefield MA	617-246-3300
Applied Business Technology Corp New York NY	212-219-8945
Applied Microsystems Corp Redmond WA	206-882-2000
ATE Associates Inc Westlake Village CA	818-991-4001
Atlanta Signal Processors Inc Atlanta GA	404-892-7265
Axis Inc San Diego CA	619-560-7737
B & F Instruments Div FX Sys Corp Kingston NY	914-338-0515
Cdex-Intelligence Corp San Jose CA	408-263-0430
Chase Electronics Portland OR	503-297-6356
Cipherlink Corp Los Angeles CA	213-387-5371
Computer Solutions Inc Burlington MA	617-229-2200
Cortex Research Corp Northbrook IL	312-480-1088
Creare Inc Hanover NH	603-643-3800
Datacom Inc Fort Walton Beach FL	904-244-6121
Data-Sud/Systems US Inc Tempe AZ	602-438-1492
Datatron Labs Inc Sussex NJ	914-856-4313
Datel Div General Electric Co Mansfield MA	617-339-9341
Datatron Corp Portland OR	503-684-3232
Digital Equipment Corp Maynard MA	617-897-5111
Electrologic Inc Signal Hill CA	213-595-0551
Electronic Associates Inc West Long Branch NJ	201-229-1100
Elxor Associates Morris Plains NJ	201-299-1615
Enertec Inc Lansdale PA	215-362-0966
Enterprise Systems Corp Dover NH	603-742-7363
Forth Inc Hermosa Beach CA	213-372-8493
Frankel Engineering Labs Inc Reading PA	215-373-5205
General Digital Corp East Hartford CT	203-528-9041
Harris Corp Computer Systems Div Ft Lauderdale FL	305-974-1700
Hewlett-Packard Palo Alto CA	415-857-8000
Industrial Micro-Systems Inc Southington CT	203-628-4844
InfoCenter Software New Paltz NY	914-255-8925
Infotek Systems Anaheim CA	714-956-9300

Intelligent Controls Inc Saco ME	207-283-0156
Intermetrics Inc Cambridge MA	617-661-1840
Istel Inc Burlington MA	617-272-7333
Kadak Products Ltd Vancouver BC	604-734-2796
Kinetic Systems Corp Lockport IL	815-838-0005
Laboratory Technologies Corp Wilmingon MA	617-657-5400
Maico Hearing Instruments Co Minneapolis MN	612-835-4400
Metatek Inc Minneapolis MN	612-786-8253
Microcomputer Applications Suisun City CA	707-422-1465
Micro Digital Inc Garden Grove CA	714-891-2363
Motorola Semiconductor Products Inc Phoenix AZ	602-244-6900
Nixdorf Computer Corp No Reading MA	617-890-3600
North America MICA Inc San Diego CA	619-458-1327
Noumenon Corp Alameda CA	415-521-2145
Oregon Software Inc Portland OR	503-245-2202
Orme Systems Corp Rochester NY	716-385-3520
Percon/Peripheral Connections Inc Eugene OR	503-344-1189
Perkin-Elmer Oceanport NJ	800-631-2154
Physical Acoustics Corp Princeton NJ	609-452-2510
Prime Computer Inc Natick MA	617-655-8000
SCI Systems Inc Huntsville AL	205-882-4800
Serial Lab Products Inc Marlboro MA	617-481-1684
Siltron Digital Atascadero CA	805-466-3209
Simco/Ramic Corp Medford OR	503-776-9800
Virtual Microsystems Berkeley CA	415-841-9594
Wintek Corp Lafayette IN	317-742-8428

SOFTWARE—CAD (COMPUTER-AIDED DESIGN)

Applicon Ann Arbor MI	313-995-6000
Atlanta Signal Processors Inc Atlanta GA	404-892-7265
Augat Inc Attleboro MA	617-222-2202
Autodesk Inc Sausalito CA	415-332-2344
Chromatics Inc Tucker GA	404-493-7000
Dasoft Design Systems Inc Berkeley CA	415-486-0822
Data I/O Corp Redmond WA	206-881-6444
Digital Equipment Corp Maynard MA	617-897-5111
EESoft Inc Westlake Village CA	818-991-7530
Electrologic Inc Signal Hill CA	213-595-0551
Evans & Sutherland Computer Corp Salt Lake City UT	801-582-5847
Frankel Engineering Labs Inc Reading PA	215-373-5205
Harris Corp Computer Systems Div Ft Lauderdale FL	305-974-1700
Hewlett-Packard Palo Alto CA	415-857-8000
Intelligent Controls Inc Saco ME	207-283-0156
Istel Inc Burlington MA	617-272-7333
Lundy Electronics & Systems Inc Glen Head NY	516-671-9000
Methus Corp Hillsboro OR	503-640-8000
Micrografix Inc Richardson TX	214-234-1269
Motorola Semiconductor Products Inc Phoenix AZ	602-244-6900
Orme Systems Corp Rochester NY	716-385-3520
Prime Computer Inc Natick MA	617-655-8000
Scientific Calculations Inc Fishers NY	716-385-6790
Shiva Microsystems Corp Menlo Park CA	415-321-2350
Siltron Digital Atascadero CA	805-466-3209
Technology Modeling Assoc Inc Menlo Park CA	415-327-6300
Wintek Corp Lafayette IN	317-742-8428
Wire Graphics Inc Farmingdale NY	516-293-1525
WRB Assoc Inc Troy MI	313-589-0054

SOFTWARE—COMMUNICATIONS SYSTEM

Axis Inc San Diego CA	619-560-7737
Boston Systems Office Inc Waltham MA	617-894-7800
BTU Engineering Corp North Billerica MA	617-667-4111
Century Analysis Inc Pacheco CA	415-680-7800
Chase Electronics Portland OR	503-297-6356
Creare Inc Hanover NH	603-643-3800
Digital Equipment Corp Maynard MA	617-897-5111
Enterprise Systems Corp Dover NH	603-742-7363
Gandalf Data Inc Wheeling IL	312-541-6060
Harris Corp Computer Systems Div Ft Lauderdale FL	305-974-1700
Hayes Microcomputer Products Inc Atlanta GA	404-449-8791
Hewlett-Packard Palo Alto CA	415-857-8000
Intelligent Controls Inc Saco ME	207-283-0156
Kinetic Systems Corp Lockport IL	815-838-0005
Linkware Corp Waltham MA	617-894-9330
Metatek Inc Minneapolis MN	612-786-8253
Micom Systems Inc Simi Valley CA	805-583-8600
Microplot Systems Co Westerville OH	614-882-4786
NCR Comten Inc St Paul MN	612-638-7777
Network Research Corp Oxnard CA	805-485-2700
Nixdorf Computer Corp No Reading MA	617-890-3600
Noumenon Corp Alameda CA	415-521-2145
Oklahoma Aerotronics Inc Hartshorne OK	918-297-2566
Perkin-Elmer Oceanport NJ	800-631-2154
Prime Computer Inc Natick MA	617-655-8000
SCI Systems Inc Huntsville AL	205-882-4800
Simco/Ramic Corp Medford OR	503-776-9800
Stratus Computer Inc Marlboro MA	617-460-2000
Tandem Computers Inc Cupertino CA	408-725-6000
Virtual Microsystems Berkeley CA	415-841-9594

SOFTWARE—DATA BASE MANAGEMENT SYSTEMS (OEM LICENSING)

Axis Inc San Diego CA	619-560-7737
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Bio Design Products Canton MA	617-828-1220
BTU Engineering Corp North Billerica MA	617-667-4111
Creare Inc Hanover NH	603-643-3800
Data General Corp Westboro MA	617-366-8911
Digital Equipment Corp Maynard MA	617-897-5111
Frankel Engineering Labs Inc Reading PA	215-373-5205
Hewlett-Packard Palo Alto CA	415-857-8000
Intelligent Controls Inc Saco ME	207-283-0156
Kinetic Systems Corp Lockport IL	815-838-0005
Microrim Inc Bellevue WA	206-641-6618
Nixdorf Computer Corp No Reading MA	617-890-3600
Noumenon Corp Alameda CA	415-521-2145
Perkin-Elmer Oceanport NJ	800-631-2154
Prime Computer Inc Natick MA	617-655-8000
SCI Systems Inc Huntsville AL	205-882-4800
Small Computer Co New York NY	212-398-9200
Tandem Computers Inc Cupertino CA	408-725-6000
Unify Corp Lake Oswego OR	503-635-6269

SOFTWARE—LANGUAGE INTERPRETERS (OEM LICENSING)

Apple Computer Inc Cupertino CA	408-996-1010
ATE Associates Inc Westlake Village CA	818-991-4001
Cortex Research Corp Northbrook IL	312-480-1088
Data General Corp Westboro MA	617-366-8911
Data-Sud/Systems US Inc Tempe AZ	602-438-1492
Datatron Corp Portland OR	503-684-3232
Forth Inc Hermosa Beach CA	213-372-8493
Istel Inc Burlington MA	617-272-7333
Miller Technology Inc Los Gatos CA	408-395-2032
Motorola Semiconductor Products Inc Phoenix AZ	602-244-6900
Multi Solutions Inc Lawrenceville NJ	609-896-4100
Perkin-Elmer Oceanport NJ	800-631-2154
Prime Computer Inc Natick MA	617-655-8000
Roim Corp—Mil-Spec Computers San Jose CA	408-942-8000
Tartan Labs Inc Pittsburgh PA	412-621-2210
Telesoft San Diego CA	619-457-7000
Virtual Microsystems Berkeley CA	415-841-9594
Wintek Corp Lafayette IN	317-742-8428
Xidak Inc Menlo Park CA	415-324-8745
Zendex Corp Dublin CA	415-828-3000

SOFTWARE—OPERATING SYSTEMS (OEM LICENSING)

Action Instruments Inc San Diego CA	619-279-5726
Analogue Corp Peabody MA	617-532-5660
Apple Computer Inc Cupertino CA	408-996-1010
BTU Engineering Corp North Billerica MA	617-667-4111
Cortex Research Corp Northbrook IL	312-480-1088
Data General Corp Westboro MA	617-366-8911
Datatron Corp Portland OR	503-684-3232
Digital Equipment Corp Maynard MA	617-897-5111
Dyad Technology Corp San Diego CA	619-450-1760
Electronic Associates Inc West Long Branch NJ	201-229-1100
Enertec Inc Lansdale PA	215-362-0966
Forth Inc Hermosa Beach CA	213-372-8493
Hewlett-Packard Palo Alto CA	415-857-8000
Industrial Programming Inc Jericho NY	516-938-6600
Mark Williams Co Chicago IL	312-472-6651
Micro Digital Inc Garden Grove CA	714-891-2363
Motorola Semiconductor Products Inc Phoenix AZ	602-244-6900
Multi Solutions Inc Lawrenceville NJ	609-896-4100
Nixdorf Computer Corp No Reading MA	617-890-3600
Noumenon Corp Alameda CA	415-521-2145
Owl Computers Inc Encinitas CA	619-436-4214
Perkin-Elmer Oceanport NJ	800-631-2154
Pickles & Trout Goleta CA	805-685-4664
Prime Computer Inc Natick MA	617-655-8000
Stratus Computer Inc Marlboro MA	617-460-2000
Tandem Computers Inc Cupertino CA	408-725-6000
Unimation Inc Danbury CT	203-744-1800
Wintek Corp Lafayette IN	317-742-8428

SOFTWARE—SYSTEM DEVELOPMENT (COMPILERS, ASSEMBLERS, ETC.)

Allen Systems Columbus OH	614-488-7122
Amherst Systems Inc Buffalo NY	716-631-0610
Applied Microsystems Corp Redmond WA	206-882-2000
ATE Associates Inc Westlake Village CA	818-991-4001
Axis Inc San Diego CA	619-560-7737
Boston Systems Office Inc Waltham MA	617-894-7800
Century Analysis Inc Pacheco CA	415-680-7800
Computer Optical Products Inc Chatsworth CA	818-882-0424
Cybernetic Micro Systems Inc San Gregorio CA	415-726-3000
Data General Corp Westboro MA	617-366-8911
Data-Sud/Systems US Inc Tempe AZ	602-438-1492
Data/Ware Development Inc San Diego CA	619-453-7666
Datatron Corp Portland OR	503-684-3232
Digital Equipment Corp Maynard MA	617-897-5111
Electronic Associates Inc West Long Branch NJ	201-229-1100
Enertec Inc Lansdale PA	215-362-0966
Forth Inc Hermosa Beach CA	213-372-8493
Genesis Microsystems Mountain View CA	415-964-9000
Harris Corp Computer Systems Div Ft Lauderdale FL	305-974-1700
Hewlett-Packard Palo Alto CA	415-857-8000
Huntsville Microsystems Inc Huntsville AL	205-881-6000
Infotek Systems Anaheim CA	714-956-9300
Intermetrics Inc Cambridge MA	617-661-1840
Istel Inc Burlington MA	617-272-7333
Kadak Products Ltd Vancouver BC	604-734-2796

kinetic Systems Corp Lockport IL.....	815-838-0005
cockhead Electronics Co Inc Plainfield NJ.....	201-757-1600
ogitech Inc Redwood City CA.....	415-365-9852
ark Williams Co Chicago IL.....	312-472-6659
Motorola Semiconductor Products Inc	
Phoenix AZ.....	602-244-6900
Multi Solutions Inc Lawrenceville NJ.....	609-896-4100
Oregon Software Inc Portland OR.....	503-245-2202
owl Computers Inc Encinitas CA.....	619-436-4214
Perkin-Elmer Oceanport NJ.....	800-631-2154
Prime Computer Inc Natick MA.....	617-655-8000
silicon Sensors Inc Dodgeville WI.....	608-935-2707
tratus Computer Inc Marlboro MA.....	617-460-2000
andem Computers Inc Cupertino CA.....	408-725-6000
eleSoft San Diego CA.....	619-457-2700
Virtual Microsystems Berkeley CA.....	415-841-9594
Vintek Corp Lafayette IN.....	317-742-8428
idak Inc Menlo Park CA.....	415-324-8745
iatech Corp San Luis Obispo CA.....	805-541-0488

SOLAR CELLS

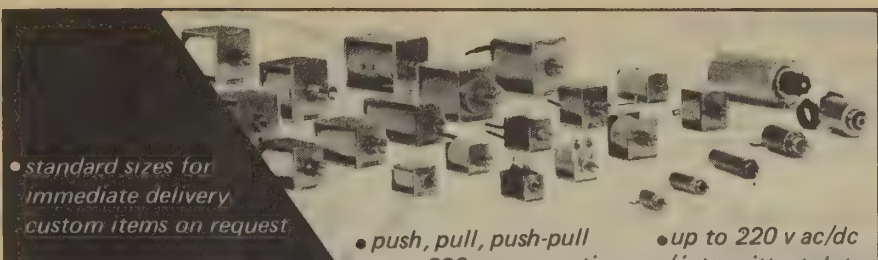
See Photocells—Photovoltaic

SOLDER & PREFORMS

ALMO ELECTRONICS INC PHILADELPHIA PA.....	215-698-4000
ADV PG Green Pages	
ROUSER ELECTRONICS MANSFIELD TX.....	817-483-0165
HILIPS ECG INC WALTHAM MA.....	617-890-6107
lmo Electronics Inc Philadelphia PA.....	215-698-4000
Alpha Metals Inc Jersey City NJ.....	201-434-6778
rgent Industries Inc Englewood OH.....	513-836-8633
low Solder Products Co Inc Union NJ.....	800-526-4577
alg Labs Inc Escondido CA.....	619-743-7143
Cominco Electronic Materials Inc	
Spokane WA.....	509-924-2200
Junton Co M W West Warwick RI.....	401-821-1832
ingelhard Industries Iselin NJ.....	201-321-5900
Jardiner Solder Co Chicago IL.....	312-847-0100
SC Electronics Div Household Intl	
Rockford IL.....	815-968-9661
idium Corp of America Utica NY.....	315-797-1630
ester Solder Div Litton Sys Inc Chicago IL.....	312-235-1600
ectron Industries Inc Roselle NJ.....	201-245-5858
Macdonald & Co Glendale CA.....	818-241-1101
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
rouser Electronics Mansfield TX.....	817-483-0165
ulticore Solders Westbury NY.....	516-334-7997
hilips ECG Inc Waltham MA.....	617-890-6107
orecelain Products Co Carey OH.....	419-396-7621
temtek Corp Fremont CA.....	415-490-3999
eastrom Mfg Co Inc Glendale CA.....	213-245-9121
emiconductor Mfg Corp Fairfield NJ.....	201-227-2432
emiconductor Packaging Materials Co	
Mamaroneck NY.....	914-698-5353
MC Carbon Products Fairfield NJ.....	201-227-2432
PC Technology Bensenville IL.....	312-766-6711
lmet Mfg Corp Fairfield NJ.....	201-227-2432
chnical Materials Inc Lincoln RI.....	401-333-1700
chihashi Metal Industrial Co Ltd Osaka Japan.....	06-962-6666
ortex Electronics Inc Farmingdale NY.....	516-293-9880
Williams Gold Refining Co Inc Precious Metals Div Buffalo NY.....	716-837-1000

SOLDER FLUXES & FLUX SOLVENTS

ALMO ELECTRONICS INC PHILADELPHIA PA.....	215-698-4000
ADV PG Green Pages	
EN ELEC CO GLASS & METALLURGICAL PRODS DEPT CLEVELAND OH.....	216-266-2451
lmo Electronics Inc Philadelphia PA.....	215-698-4000
Alpha Metals Inc Jersey City NJ.....	201-434-6778
rgent Industries Inc Englewood OH.....	513-836-8633
SI Providence RI.....	401-331-9154
low Solder Products Co Inc Union NJ.....	800-526-4577
alg Labs Inc Escondido CA.....	619-743-7143
hemtronics Inc Hauppauge NY.....	516-582-3322
PC Chemicals USA Warminster PA.....	215-674-4300
uTech Inc Hatfield PA.....	215-822-8900
low Chemical Co Midland MI.....	517-636-1000
Junton Co M W West Warwick RI.....	401-821-1832
u Pont De Nemours & Co Inc E I Chemicals & Pigments Dept Wilmington DE.....	800-441-9442
chelon Industries Inc Walnut CA.....	714-594-1891
lectronic Tool Co Inc Pleasantville NY.....	914-798-8070
lectro-Science Labs Inc King of Prussia PA.....	215-272-8000
ingelhard Industries Iselin NJ.....	201-321-5900
thomatic Inc Waltham MA.....	617-893-2020
lmount Chemical Co Inc Newark NJ.....	201-344-5790
ormulated Resin Inc Greenville RI.....	401-949-2060
Jardiner Solder Co Chicago IL.....	312-847-0100
SC Electronics Div Household Intl	
Rockford IL.....	815-968-9661
en Elec Co Glass & Metallurgical Prods Dept Cleveland OH.....	216-266-2451
idium Corp of America Utica NY.....	315-797-1630
jectorall Electronics Corp Glen Cove NY.....	516-671-6010
enco Industries Inc Atlanta GA.....	404-475-6100
ester Solder Div Litton Sys Inc Chicago IL.....	312-235-1600
ake Chemical Co Chicago IL.....	312-826-1700
AcDermid Inc Waterbury CT.....	203-615-5600
Macdonald & Co Glendale CA.....	818-241-1101
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
ulticore Solders Westbury NY.....	516-334-7997
orecelain Products Co Carey OH.....	419-396-7621
Control Systems Div Research Inc	
Minneapolis MN.....	612-941-3300
emiconductor Mfg Corp Fairfield NJ.....	201-227-2432
MC Carbon Products Fairfield NJ.....	201-227-2432
older Absorbing Technology Springfield MA.....	413-788-6191
PC Technology Bensenville IL.....	312-766-6711
lmet Mfg Corp Fairfield NJ.....	201-227-2432



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Technonics Ecological Corp Brooklyn NY.....	718-522-3838
Texwipe Co Upper Saddle River NJ.....	201-327-5577
Transene Co Inc Rowley MA.....	617-948-2501
Uchihashi Metal Industrial Co Ltd Osaka Japan.....	06-962-6666
Urban Chemical Co Deerfield IL.....	312-498-3080
Vertex Electronics Inc Farmingdale NY.....	516-293-9880
Viking Chemical Products Inc Waverly NY.....	607-565-4551

SOLDERING EQUIPMENT

See Machines—Soldering; Tools—Soldering;
Ultrasonic Equipment

SOLDERING MACHINES

See Machines

SOLDERING SERVICES

See Production Services

SOLDERING TOOLS & POTS

See Tools

SOLDER PASTES (SOLDER-FLUX MIXTURES)

ALMO ELECTRONICS INC PHILADELPHIA PA.....	215-698-4000
ADV PG Green Pages	
Almo Electronics Inc Philadelphia PA.....	215-698-4000
Alpha Metals Inc Jersey City NJ.....	201-434-6778
Argent Industries Inc Englewood OH.....	513-836-8633
ASI Providence RI.....	401-331-9154
Assemblymatics Inc Brentwood NY.....	516-231-4440
Bow Solder Products Co Inc Union NJ.....	800-526-4577
Dunton Co M W West Warwick RI.....	401-821-1832
EDF Inc East Providence RI.....	401-434-1680
Electronic Tool Co Inc Pleasantville NY.....	914-769-8070
Electro-Science Labs Inc King of Prussia PA.....	215-272-8000
Engelhard Industries Iselin NJ.....	201-321-5900
Gardiner Solder Co Chicago IL.....	312-847-0100
GC Electronics Div Household Intl	
Rockford IL.....	815-968-9661
Indium Corp of America Utica NY.....	315-797-1630
Kenco Industries Inc Atlanta GA.....	404-475-6100
Kester Solder Div Litton Sys Inc Chicago IL.....	312-235-1600
Lake Chemical Co Chicago IL.....	312-826-1700
Macdonald & Co Glendale CA.....	818-241-1101
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Multicore Solders Westbury NY.....	516-334-7997
Semiconductor Mfg Corp Fairfield NJ.....	201-227-2432
Shipley Co Inc Newton MA.....	617-969-5500
SPC Technology Bensenville IL.....	312-766-6711
Stamet Mfg Corp Fairfield NJ.....	201-227-2432
Transene Co Inc Rowley MA.....	617-948-2501
Vertex Electronics Inc Farmingdale NY.....	516-293-9880

SOLDER RESISTS

Applied Plastics Co Inc El Segundo CA.....	213-322-8050
Argent Industries Inc Englewood OH.....	513-836-8633
Echelon Industries Inc Walnut CA.....	714-594-1891
Etchomatic Inc Waltham MA.....	617-893-2020
Hysol Div The Dexter Corp Industry CA.....	213-968-6511
Kenco Industries Inc Atlanta GA.....	404-475-6100
MacDermid Inc Waterbury CT.....	203-615-5600
Macdonald & Co Glendale CA.....	818-241-1101
M & T Chemicals Inc Rahway NJ.....	201-499-0200
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Multicore Solders Westbury NY.....	516-334-7997
Nitto Denko America Inc Port Washington NY.....	516-484-9700
Sol-Rex / OMI Int'l Corp Nutley NJ.....	201-667-5200
Shipley Co Inc Newton MA.....	617-969-5500
Urban Chemical Co Deerfield IL.....	312-498-3080

SOLENOID PARTS

See Coils—Windings Only; Cores

SOLENOIDS—LINEAR

BICRON ELECTRONICS CO CANAAN CT.....	203-824-5125
ENVIROMARINE SYSTEMS INC LAUREL MD.....	301-598-8833
IMC MAGNETICS CORP WESTERN DIV CERRITOS CA.....	213-926-0927
ADV PG Back Cover	
REGDON CORP BROOKFIELD IL.....	312-485-5152
ADV PG 425	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
U S ELECTRONICS CORP UNION NJ.....	201-688-0111
Airpax Corp Frederick Div Frederick MD.....	301-663-5141
A P W Co Inc Rockaway NJ.....	201-627-0643
Automatic Switch Co Florham Park NJ.....	201-966-2000
Bicron Electronics Co Canaan CT.....	203-824-5125
Chet Engineering Co Sepulveda CA.....	818-786-7226
Coil Specialty Co State College PA.....	814-234-7044
Component Specialties Corp Temple City CA.....	213-287-3221
Detroit Controls Div Detroit Corp Milwaukee WI.....	414-671-6800
Detroit Coil Co Ferndale MI.....	313-398-5600
Dormeyer Industries Chicago IL.....	312-283-4000
Eaton Corp /Cutler-Hammer Products Milwaukee WI.....	414-449-6000
Electro-Mechanisms Inc Duarte CA.....	818-359-2535
Endicott Coil Co Inc Binghamton NY.....	607-797-1263
Enviromarine Systems Inc Laurel MD.....	301-598-8833
Guardian Electric Mfg Co Chicago IL.....	312-243-1100
IMC Magnetism Corp Western Div Cerritos CA.....	213-926-0927
Laketown Mfg Corp Waconia MN.....	612-442-4477
Ledex Inc Electromechanical Prods Vandalia OH.....	513-898-3621
Liberty Controls Inc Shorewood IL.....	815-725-2241
Linear Motions Co Valinda CA.....	818-918-7806
Magnetec Corp Bloomfield CT.....	203-243-8941
Namco Controls Div Acme-Cleveland Corp Mentor OH.....	216-946-9900
Oak Switch Systems Inc Crystal Lake IL.....	815-459-5000
Potter & Brumfield Div AMF Inc Princeton IN.....	312-386-1000
Regdon Corp Brookfield IL.....	312-485-5152
Ross Engineering Corp Campbell CA.....	408-377-4621
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Singer Co Controls Div Schiller Pk IL.....	312-678-4150
SR Engineering Inc Garden Grove CA.....	714-554-4200
SSI Technologies Inc Janesville WI.....	608-755-1900
U S Controls Corp New Berlin WI.....	414-778-0340
U S Electronics Corp Union NJ.....	201-688-0111
Universal Relay Corp New York NY.....	212-925-6900

SOLENOIDS—LINEAR, SUBMINIATURE

BICRON ELECTRONICS CO CANAAN CT.....	203-824-5125
IMC MAGNETICS CORP WESTERN DIV CERRITOS CA.....	213-926-0927
ADV PG Back Cover	
REGDON CORP BROOKFIELD IL.....	312-485-5152
ADV PG 425	
U S ELECTRONICS CORP UNION NJ.....	201-688-0111
Airpax Corp Frederick Div Frederick MD.....	301-663-5141
A P W Co Inc Rockaway NJ.....	201-627-0643
Bicron Electronics Co Canaan CT.....	203-824-5125
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IMC Magnetism Corp Western Div Cerritos CA.....	213-926-0927
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SR Engineering Inc Garden Grove CA.....	714-554-4200
U S Electronics Corp Union NJ.....	201-688-0111

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See Type Desired (Commutators; ICs Listings; Modules; Etc.)

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See Brazing Fluxes & Solvents; Cleaning Materials; Paints; Solder Fluxes

SONAR DEPTH SOUNDERS

See Depth Sounders

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Polaroid Corp Ultrasonic Mktg Cambridge MA.....	617-577-4681
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See Absorbers

SOUND-ACTUATED CONTROLS

See Controls—A-F; Relays—Frequency Selective

SOUND-LEVEL METERS

See Meters

SOUND-POWERED INTERCOMS

See Intercommunications Systems

SOUND SYSTEMS

See Audio Systems

See Also A-F Equipment Reference List

SOURCES (STANDARDS)

See Infrared Calibration Sources; Radioactive Sources; Standards

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Kulka Smith Inc Manassas NJ.....	201-223-940
Luke Line Fasteners Beverly NJ.....	609-387-116
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Teknational Industries Inc Rochester NY.....	716-232-129
Unicorp Orange NJ.....	201-674-170

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SPECTRUM ANALYZERS

See Analyzers

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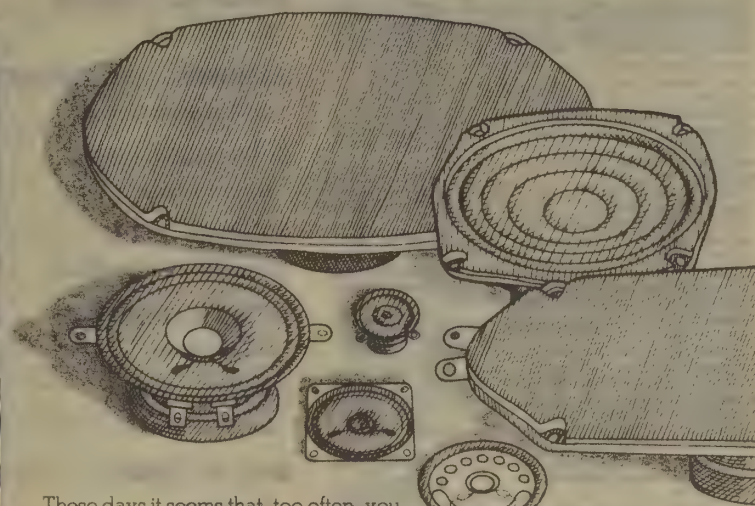
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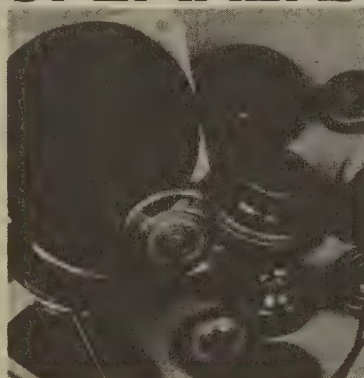
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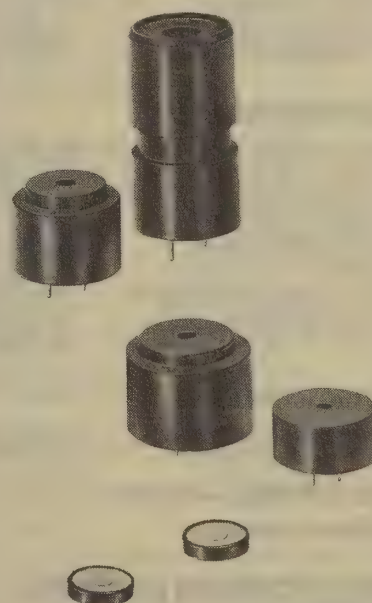
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See Photoresist Spinners

SPINNINGS—METAL

See Metal Parts

SPLICERS—TAPE

See Magnetic Tape Splicers

SPLICES—TERMINALS

See Terminals

SPLICES—WIRE

See Wire Splices

SPOT WELDERS

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SPRAYERS

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SQUARE-WAVE GENERATORS

See Generators—Function; Generators—Signal

STABILIZERS—IMAGE

See Optoelectronic Systems

STABILIZERS—KLYSTRON

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STANDARDS—CALIBRATION
INSTRUMENTS

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FCP Inc/Frequency Cont Prods Woodside NY.....	718-458-5811
FSI/Fork Standards Inc Lombard IL.....	312-932-9300
Global Specialties Corp New Haven CT.....	203-624-3100
Racal-Dana Instruments Inc Irvine CA.....	714-859-8999

STANDARDS, FREQUENCY—ATOMIC
TYPE

Austron Inc Austin TX.....	512-251-2310
Datum Inc Timing/AACOM Divs Anaheim CA.....	714-533-6330
Efratom Div Ball Corp Irvine CA.....	714-752-2891
Frequency & Time Systems Inc Beverly MA.....	617-927-8220
Frequency Electronics Mitchell Field NY.....	516-794-4500
Hewlett-Packard Palo Alto CA.....	415-857-8000
Racal-Dana Instruments Inc Irvine CA.....	714-859-8999
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
Tracor Inc Austin TX.....	512-929-2051

STANDARDS,
FREQUENCY—MICROWAVE

Eaton Corp Elctn Inst Div Ronkonkoma NY.....	516-588-3600
Fluke Mfg Co Inc John Everett WA.....	206-356-5400

STANDARDS, FREQUENCY—RF (EXCEPT MICROWAVE)

ELECTRON LABS INC NORWALK CT	203-853-4433
ADV PG 302	
Austron Inc Austin TX.....	512-251-2313
Cox & Company Inc New York NY.....	212-674-4727
Eaton Corp Elctn Inst Div Ronkonkoma NY.....	516-588-3600
CP Inc/Frequency Cont Prods Woodside NY.....	718-458-5811
Fuke Mfg Co Inc John Everett WA.....	206-356-5400
Frequency & Time Systems Inc Beverly MA.....	617-927-8220
SI/Fork Standards Inc Lombard IL.....	312-932-9380
Global Specialties Corp New Haven CT.....	203-624-3103
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Jewlett-Packard Palo Alto CA.....	415-857-8000
Racal-Dana Instruments Inc Irvine CA.....	714-859-8999
Spectracom Corp East Rochester NY.....	716-381-4827
Electron Labs Inc Norwalk CT.....	203-853-4433
Nenzel Assoc Inc Austin TX.....	512-345-2703

STANDARDS—INDUCTANCE

ET LABS INC WESTBURY NY	516-334-5959
Gen Rad Inc Waltham MA.....	617-369-4400
ET Labs Inc Westbury NY.....	516-334-5959
Leeds & Northrup Instruments	
North Wales PA.....	215-643-2000
Rutherford Research Co Rutherford NJ.....	201-933-2091
Tetex Instruments Inc Fairview Village PA.....	215-539-6050

STANDARDS—INFRARED

See Infrared Calibration Sources

STANDARDS—LOAD CELLS

ENTRAN DEVICES INC FAIRFIELD NJ	201-227-1002
AL Design Inc Amherst NY.....	716-833-6272
Data Instruments Inc Lexington MA.....	617-861-7450
Illion & Co Inc W C Santa Rosa CA.....	707-527-5555
Entran Devices Inc Fairfield NJ.....	201-227-1002
Idm Instrument Co Inc Maumee OH.....	419-893-4356
Hottinger Baldwin Measurements Inc	
Framingham MA.....	617-875-8282
Interface Inc Scottsdale AZ.....	602-948-5555
Martin-Decker Cedar Park TX.....	512-331-0411
Revere Corp of America Wallingford CT.....	203-269-7701
Sensor Developments Inc Oxford MI.....	313-628-2727
Trainor Co West Conshohocken PA.....	215-825-3310
Streeter Richardson Div Grayslake IL.....	312-223-4801
West Coast Research Corp Los Angeles CA.....	213-478-8833

STANDARDS—PHASE

Peak Technology Inc Pittsburgh PA.....	412-941-9520
Pranetz Technologies Inc Edison NJ.....	201-287-3680
Byan International Corp Columbus OH.....	614-885-3303
Valhalla Scientific Inc San Diego CA.....	619-457-5576

STANDARDS—Q

Jewlett-Packard Palo Alto CA.....	415-857-8000
Rutherford Research Co Rutherford NJ.....	201-933-2091
Tetex Instruments Inc Fairview Village PA.....	215-539-6050

STANDARDS—RESISTANCE

ET LABS INC WESTBURY NY	516-334-5959
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY	914-699-9717
THERMOMETRICS INC EDISON NJ	201-287-2870
Electrical Instrument Service Inc	
Mt Vernon NY.....	914-699-9717
Electro Scientific Industries Inc Portland OR.....	503-641-4141
Gen Rad Inc Waltham MA.....	617-369-4400
3undline Instruments Inc Orlando FL.....	305-423-8215
ty-Cal Engineering El Monte CA.....	818-444-4000
ET Labs Inc Westbury NY.....	516-334-5959
Julie Research Labs Inc New York NY.....	212-245-2727
RLN Electronics Inc Manchester NH.....	603-668-3270
Leeds & Northrup Instruments	
North Wales PA.....	215-643-2000
Alis Resistor Co Los Alamitos CA.....	213-598-2454
Sensitive Research Instruments Mt Vernon NY.....	914-699-9717
Tetex Instruments Inc Fairview Village PA.....	215-539-6050
Thermometrics Inc Edison NJ.....	201-287-2870
Valhalla Scientific Inc San Diego CA.....	619-457-5576
Yokogawa Corp Of America Shenandoah GA.....	404-253-7000
Zi-Tech Instrument Corp Palo Alto CA.....	415-326-2151

STANDARDS—TEMPERATURE

See Thermocouple Reference Junctions

STANDARDS—TIME

Austron Inc Austin TX.....	512-251-2313
Chrono-Log Corp Havertown PA.....	215-853-1130
Datum Inc Timing/AACOM Divs Anaheim CA.....	714-533-6333
Eratom Div Ball Corp Irvine CA.....	714-752-2891
CP Inc/Frequency Cont Prods Woodside NY.....	718-458-5811
Frequency & Time Systems Inc Beverly MA.....	617-927-8220
Frequency Electronics Mitchell Field NY.....	516-794-4500
Jewlett-Packard Palo Alto CA.....	415-857-8000

Racal-Dana Instruments Inc Irvine CA.....	714-859-8999
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany.....	089-41290
Spectracom Corp East Rochester NY.....	716-381-4827
Trak Systems Div Trak Microwave Corp	
Tampa FL.....	813-884-1411

STANDARDS—VOLTAGE (EXCEPT CALIBRATORS)

IET LABS INC WESTBURY NY	516-334-5959
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY	914-699-9717
Advantest Corp Tokyo Japan.....	03-342-7500
Analogic Corp Peabody MA.....	617-532-5660
Ballantine Laboratories Inc Boonton NJ.....	201-335-0900
Electrical Instrument Service Inc	
Mt Vernon NY.....	914-699-9717
Electronic Development Corp Boston MA.....	617-268-9696
Guidline Instruments Inc Orlando FL.....	305-423-8215
Holt Instrument Div C P D Engng Inc	
Oconto WI.....	414-834-2222
IET Labs Inc Westbury NY.....	516-334-5959
Julie Research Labs Inc New York NY.....	212-245-2727
Keop Precision Standards Inc	
South Plainfield NJ.....	201-549-9280
Racal-Dana Instruments Inc Irvine CA.....	714-859-8999
Sensitive Research Instruments Mt Vernon NY.....	914-699-9717
Tetex Instruments Inc Fairview Village PA.....	215-539-6050
Valhalla Scientific Inc San Diego CA.....	619-457-5576
Velonex Santa Clara CA.....	408-727-7370
Yokogawa Corp Of America Shenandoah GA.....	404-253-7000
Zi-Tech Instrument Corp Palo Alto CA.....	415-326-2151

STANDING-WAVE DETECTORS

See Detectors

STANDOFFS

See Insulators

STATIC CONTROLS

See Amplifiers—Magnetic; Saturable Reactors

STATIC CONTROL SYSTEMS

INTERNATIONAL INSTRUMENTATION INC	
WESTLAKE VILLAGE CA	818-991-9614
3M CO STATIC CONTROL SYSTEMS	
AUSTIN TX	800-328-1368
ADV PG 429	
ACL Inc Elk Grove Village IL.....	312-981-9212
Akro-Mils Inc Akron OH.....	216-253-5592
Bruhl & Co Inc Indianapolis IN.....	800-428-7149
Chapman Corp Portland ME.....	207-773-4726
Conductive Containers Inc Northbrook IL.....	312-480-7887
Desco Industries Inc Walnut CA.....	714-598-2753
Dixon Industries Corp Bristol RI.....	401-253-2000
Echelon Industries Inc Walnut CA.....	714-594-1891
Ellis Co Inc CH Indianapolis IN.....	317-636-3351
Geneva Group of Co's Inc Eden Prairie MN.....	612-829-1724
International Instrumentation Inc	
Westlake Village CA.....	818-991-9614
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
3M Co Static Control Systems Austin TX.....	800-328-1368
NRD Div Mark Indus Inc Grand Island NY.....	716-773-7634
NTE Electronics Inc Bloomfield NJ.....	201-748-5089
Nu-Concept Computer Systems Inc	
Colmar PA.....	215-275-3200
Olympic Plastics Co Los Angeles CA.....	213-837-5321
O-R Industries Inc Framingham MA.....	617-872-3344
Partolio Inc San Rafael CA.....	415-459-1087
Plastics Systems Inc Marlboro MA.....	617-485-7390
Prevent Static Inc Pennsauken NJ.....	609-665-5595
Reliance Electric Co Cleveland OH.....	800-245-4497
Richmond Technology Inc Redlands CA.....	714-794-2111
Scientific Enterprises Inc Broomfield CO.....	303-469-7801
S & H Industries Inc Glen Head NY.....	516-671-5600
Simco Co Inc Hatfield PA.....	215-822-2171
Solder Absorbing Technology Springfield MA.....	413-788-6191
Static Inc Skippack PA.....	215-584-9600
Synthane-Taylor Corp Oaks PA.....	215-666-0300
Takk Industries Inc Cincinnati OH.....	513-353-4306
Teknological Industries Inc Rochester NY.....	716-232-1291
Texpix Co Upper Saddle River NJ.....	201-327-5577
VPI Sheboygan WI.....	414-458-4664
Wall-Able Mfg Corp Chicago IL.....	312-440-1000
Wescorp Div DAL Indus Inc Mt View CA.....	415-969-7717
Wilson-Fiberfil International Evansville IN.....	800-457-3764

STEATITE

See Ceramic Listings

STEEL

See Metals; Wire—Bare

STEMS—TUBE

See Tube Parts

STEP & REPEAT CAMERAS

See Cameras

Three simple rules for static control

To protect your static-sensitive devices and profits... 1) handle all devices at static-safe work stations, 2) transport them in static-shielding containers, 3) make certain your suppliers follow rules 1 & 2.

3M offers a full line of static protection products.

But total control involves more than products. Contact a 3M Static Analyst to analyze your specific static problems, provide employee education and full technical support.

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Atlanta, GA 30360
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155 Fourth Avenue
Needham Heights, MA 02194
(617) 449-0300

Cedar Rapids
Twin Cities Branch
P.O. Box 33211
Eagan, MN 55133
(612) 452-5300 Local
800/392-0312 Inside MN
800/328-0201 Outside MN

Chicago
6850 S. Harlem Avenue
Bedford Park
Argo, IL 60501
800/942-3961 Inside IL
800/323-4087 Outside IL

Cincinnati
4835 Para Drive
Cincinnati, OH 45237
800/523-4441 Inside OH
800/242-4100 Outside OH

Cleveland
12200 Brookpark Rd.
Cleveland, OH 44130
800/523-4441 Inside OH
800/242-4100 Outside OH

Columbus
4835 Para Drive
Cincinnati, OH 45237
800/523-4441 Inside OH
800/242-4100 Outside OH

Dallas
2121 Santa Anna Avenue
P.O. Box 28158
Dallas, TX 75228
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800/527-1648 Outside TX

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Twin Cities Branch
P.O. Box 33211
Eagan, MN 55133
800/328-0201

Detroit
22100 Telegraph Road
P.O. Box 358
Southfield, MI 48037-0358
800/942-3961 Inside IL
800/323-4087 Outside IL

Houston
2121 Santa Anna Avenue
P.O. Box 28158
Dallas, TX 75228
800/442-8046 Inside TX
800/527-1648 Outside TX

Or write:
Static Control Systems Division/3M,
2111 West Braker Lane, Bldg. 501,
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STEPPING DEVICES

See Motors; Relays; Solenoids; Switches

STEREO EQUIPMENT

See Adapters—FM Stereo; Audio Systems;

Magnetic Tape Players; Phonograph Listings;

Receivers—Radio Broadcast—Home

See Also A-F Equipment Reference List

STERILIZERS—ULTRASONIC

See Ultrasonic Equipment

STETHESCOPIES

See Medical Electronics Equipment

STOOLS

See Benches & Stools

STOPPERS—HOLE

See Plugs—Hole

STOPS—SERVO

See Servo Limit Stops

STORAGE BATTERIES

See Batteries

STORAGE BINS & TRAYS

See Bins & Trays

STORAGE BOXES

See Boxes; Cases—Portable; Magnetic Tape

Storage Cases

STRAIGHTENERS—TUBE PIN

See Tube Pin Straighteners

STRAIN GAGES

See Gages—Strain; Transducers—Strain

STRAIN INSULATORS

See Antenna Insulators

STRAIN RELIEFS—WIRE & CABLE

ALMOR CO INC WEYMOUTH MA	617-331-8400
CONCORD ELECTRONICS CORP NEW YORK NY	212-777-6571
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
ZIERICK MFG CORP MOUNT KISCO NY	914-666-2911
Accessories for Electronics Inc Baldwin NY	516-546-1751
Almor Co Inc Weymouth MA	617-331-8400
AMP Products Corp Southeastern PA	215-647-1000
Amrad Div Transcon Mfg Co Ft Smith AR	501-452-3987
Atlantic Research Corp Alexandria VA	703-642-4000
Autosplice Inc Woodside NY	718-429-0500
Brady Co W H Industrial Prods Div Milwaukee WI	414-351-6630
BTC Electronic Components Inc Old Bridge NJ	201-536-8000
Caton Connector Corp Kingston MA	617-585-4315
Component Mfg Svc Inc West Bridgewater MA	617-580-0111
Concord Electronics Corp New York NY	212-777-6571
Eaton Corp Engineered Fasteners Div Cleveland OH	216-523-5361
Electro Cords Div Middlebury IN	219-825-9466
Electronized Chemicals Co Wilmington MA	617-657-8030
GC Electronics Div Household Intl Rockford IL	815-968-9661
Glenair Inc Glendale CA	818-247-6000
Heyco Molded Products Kenilworth NJ	201-245-0033
Icore International Inc Sunnyvale CA	408-732-5400
Ideal Industries Inc Sycamore IL	815-895-5181
Jonathan Mfg Corp Fullerton CA	714-526-4651
Kel-Am Inc Eldon MO	314-392-7174
Kellams Div Harvey Hubbell Inc Stonington CT	203-535-1250
Kulka Smith Inc Manasquan NJ	201-223-9400
Lemo U S A Inc Santa Rosa CA	707-578-8811
Midland-Ross Corp Electronic Connector Div Cambridge MA	617-491-5400
Minor Rubber Co Inc Bloomfield NJ	201-338-6800

Molex Inc Lisle IL	312-969-4550
Mouser Electronics Mansfield TX	817-483-0165
Multi-Tech Industries Inc Marlboro NJ	201-431-0550
Offlex Wire & Cable Inc Fairfield NJ	201-575-1101
Panduit Corp Tinley Park IL	312-532-1800
Panel Components Corp Santa Rosa CA	707-523-0600
Peerless Radio Corp Lynbrook NY	516-593-2121
Penn Fibre & Specialty Co Philadelphia PA	215-288-7366
Raychem Corp Menlo Park CA	415-361-3333
Reliable Electric/Utility Products Franklin Park IL	312-455-8010
Remtek Corp Fremont CA	415-490-3999
Ross Co Milton Southampton PA	215-355-0200
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sinclair & Rush Inc St Louis MO	314-481-2450
Sjoberg & Son Inc Cranston RI	401-461-8220
SOS Lighting Devices Div MEMCO Philadelphia PA	215-423-7077
SPC Technology Bensenville IL	312-766-6711
Sunbank Electronics Inc Paso Robles CA	805-238-2840
Support Systems Intl Cables & Access Div Richmond CA	415-234-9090
Thomas & Betts Electrical Group Raritan NJ	201-685-1600
TRW Connector Div Elk Grove Village IL	312-981-6000
Tytron Corp Milwaukee WI	414-355-1130
Victor Corp West Warwick RI	401-821-7800
Woven Electronics Corp Mauldin SC	803-963-5131
Zierick Mfg Corp Mount Kisco NY	914-666-2911
Zippertubing Co Los Angeles CA	213-321-3901

STRETCHERS—LINE

See Microwave Line Stretchers

STRIP-CHART RECORDERS

See Recorders—Graphic

STRIPLINE CIRCUITS & FILTERS

See Microwave Circuits

STRIPLINE COMPONENTS

See Component Type Desired

STRIPLINE LAMINATES

See Printed Circuit Laminates—Microwave

STRIPPERS—HAND

See Tools

STRIPPERS, WIRE—AUTOMATIC

AMP Products Corp Southeastern PA	215-647-1000
Artos Engineering Co New Berlin WI	414-782-3300
Automated Production Concepts Inc Pompton Plains NJ	201-831-8300
Carpenter Mfg Co Inc Manlius NY	315-682-9176
Coherent General Sturbridge MA	617-347-2681
Coherent Inc Palo Alto CA	415-493-2111
Design Technology Corp Billerica MA	617-663-7000
Dreisliker Electric Motors Inc Glen Ellyn IL	312-469-7510
Eraser Co Inc The Syracuse NY	315-454-3327
Ewald Instruments Kent CT	203-927-3278
GC Electronics Div Household Intl Rockford IL	815-968-9661
General Laser Inc Scottsdale AZ	602-991-0674
High Speed Hammer Co Inc Rochester NY	716-266-6740
Ideal Industries Inc Sycamore IL	815-895-5181
Macdonald & Co Glendale CA	818-241-1101
Midland-Ross Corp Electronic Connector Div Cambridge MA	617-491-5400
Molex Inc Lisle IL	312-969-4550
Northern Automatic Assembly Inc Shoreview MN	612-481-0022
Ripley Co Inc Cromwell CT	203-635-2200
Technical Devices Co Torrance CA	213-618-8437
Thomas & Betts Electrical Group Raritan NJ	201-685-1600
Vaco Products Co Northbrook IL	312-564-3300

STRIPPERS, WIRE—CHEMICAL

Allied Corp Morristown NJ	201-455-6300
Auric Corp Newark NJ	201-242-4110
Dynalox Inc Hanover NJ	201-887-9270
Eraser Co Inc The Syracuse NY	315-454-3237
Etchomatic Inc Waltham MA	617-893-2020
Formulated Resins Inc Greenville RI	401-949-2060
Macdonald & Co Glendale CA	818-241-1101
Oakite Products Inc Berkeley Hts NJ	201-464-6900
Urban Chemical Co Deerfield IL	312-498-3080

STRIPPERS, WIRE—HAND

AMP INCORPORATED HARRISBURG PA	717-564-0100
CONCORD ELECTRONICS CORP NEW YORK NY	212-777-6571
OMEGA ENGINEERING INC STAMFORD CT	203-359-1660
ADV PG Gatefold	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
WISE COMPONENTS INC GREENWICH CT	203-531-4880

AMP Incorporated Harrisburg PA	717-564-0100
AMP Products Corp Southeastern PA	215-647-1000
Augat Inc Attleboro MA	617-222-2200
Automated Production Concepts Inc Pompton Plains NJ	201-831-8300
Blackburn Div FL Industries Sycamore IL	815-895-5181
Clauss Cutlery Co Fremont OH	419-332-7340
Concord Electronics Corp New York NY	212-777-6571
Consell Cheshire CT	203-272-5750
Electronics Warehouse Inc Old Lyme CT	203-434-9830
Electronic Tool Co Inc Pleasantville NY	914-769-8070
Eraser Co Inc The Syracuse NY	315-454-3323
GC Electronics Div Household Intl Rockford IL	815-968-9661
Harris Corp Dracon Div Camarillo CA	805-987-9790
Ideal Industries Inc Sycamore IL	815-895-5181
Jonard Industries Corp Tuckahoe NY	914-793-0700
Kinematix Inc Concord NH	603-224-6580
Klein Tools Inc Chicago IL	312-677-9500
Macdonald & Co Glendale CA	818-241-1101
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Martindale Electric Co Cleveland OH	216-521-8550
O K Industries Bronx NY	212-994-6600
Offlex Wire & Cable Inc Fairfield NJ	201-575-1101
Omega Engineering Inc Stamford CT	203-359-1660
Overnight Engineering Inc San Jose CA	408-448-0460
Paladin Corp Newbury Park CA	805-499-0310
Philmore Mfg Co Inc Inwood NY	516-239-6160
Raychem Corp Menlo Park CA	415-361-3333
Ripley Co Inc Cromwell CT	203-635-2200
Ripley Co Inc Utility Tool Div Cromwell CT	203-635-2200
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
SPC Technology Bensenville IL	312-766-6711
Thomas & Betts Electrical Group Raritan NJ	201-685-1600
Vaco Products Co Northbrook IL	312-564-3300
Vertex Electronics Inc Farmingdale NY	516-293-9880
Wise Components Inc Greenwich CT	203-531-4880

STRIPPERS, WIRE—HOT WIRE

OMEGA ENGINEERING INC STAMFORD CT	203-359-1660
ADV PG Gatefold	
Automated Production Concepts Inc Pompton Plains NJ	201-831-8300
Eraser Co Inc The Syracuse NY	315-454-3323
Ideal Industries Inc Sycamore IL	815-895-5181
Macdonald & Co Glendale CA	818-241-1101
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Omega Engineering Inc Stamford CT	203-359-1660
Pace Inc Laurel MD	301-490-9860

STRIPS—TERMINAL

See Terminal Strips

STRIP TRANSMISSION LINE

See Cables—Flat

STROBE LAMPS

See Lamps

STROBOSCOPES

HUNTER PRODUCTS INC BRIDGEWATER NJ	201-526-8440
Alpha-M Corp Eules TX	817-267-7020
Aristo-Craft New York NY	212-924-4040
Biddle Instruments-Sensitek Blue Bell PA	215-646-9200
Chadwick Helmut Co Inc El Monte CA	213-575-6160
Ealing Corp South Natick MA	617-655-7000
EG & G Inc Electro-Optics Div Salem MA	617-745-3200
Electromatic Equipment Co Inc Cedarhurst NY	516-295-4300
Electronic Brazing Co Inc Boonton NJ	201-334-4580
Gen Rad Inc Waltham MA	617-369-4400
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Hunter Products Inc Bridgewater NJ	201-526-8440
IRD Mechanalysis Inc Columbus OH	614-885-5370
Pioneer Electric & Research Corp Forest Park IL	312-771-8240
Sargent-Welch Scientific Co Skokie IL	312-677-0600
Sticht Co Inc Herman H New York NY	212-732-8160
Video Logic Corp Sunnyvale CA	408-245-8620

STRONTIUM

See Metals—Alkaline

STRONTIUM TITANATE

See Titanates

STYLI

See Phonograph Needles

SUBSTRATES—CERAMIC, GLAZED

Corning Glass Works Tech Prods Div Corning NY	607-974-9000
Ferro Corp Coatings Div Cleveland OH	216-641-8580
Frenchtown Ceramics Co Frenchtown NJ	201-996-2121
GTE Precision Materials Danvers MA	617-777-1900

Kyocera Intl Inc Elctn Comps Group	
San Diego CA	619-454-1800
Lear Siegler Inc Instrument Div	
Grand Rapids MI	616-241-7000
Materials Research Corp Orangeburg NY	914-359-4200
National Beryllia Div/General Ceramics Inc	
Haskell NJ	201-839-1600
NTK Technical Ceramic Div Richardson TX	214-235-8332
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Stamet Mfg Corp Fairfield NJ	201-227-2432
Valley Design Corp Littleton MA	617-486-8933
Victoreen Inc Cleveland OH	216-795-8200

SUBSTRATES—CERAMIC, GREEN OR UNGLAZED

Ceramic Systems San Diego CA	619-455-1500
Coors Porcelain Co Golden CO	303-278-4000
Ferro Corp Coatings Div Cleveland OH	216-841-8580
Frenchtown Ceramics Co Frenchtown NJ	201-996-2121
Glass Beads Co Latrobe PA	412-537-7791
GTE Precision Materials Danvers MA	617-777-1900
Kyocera Intl Inc Elctn Comps Group	
San Diego CA	619-454-1800
Materials Research Corp Orangeburg NY	914-359-4200
Mindrum Precision Products	
Rancho Culamonga CA	714-989-1728
Mikroy/Mycalex Clifton NJ	201-779-8866
NTK Technical Ceramic Div Richardson TX	214-235-8332
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Stamet Mfg Corp Fairfield NJ	201-227-2432

SUBSTRATES—CERAMIC, THICK FILM

ACC ELECTRONICS AN ECHLIN CO	
Independence KS	316-331-1000
ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
HYTEK MICROSYSTEMS INC	
Los Gatos CA	408-395-2300
NORTHWEST MICROCIRCUITS INC	
Corvallis OR	503-753-8242
TDK CORP TOKYO JAPAN	03-278-5111
ACC Electronics an Echlin Co	
Independence KS	316-331-1000
Accumet Engineering Corp Hudson MA	617-568-8311
Algorex Corp Hauppauge NY	516-434-9400
Allen-Bradley Co Milwaukee WI	414-382-2000
Aptek Microsystems Deerfield Beach FL	305-421-8450
Ceramic Systems San Diego CA	619-455-1500
Coors Porcelain Co Golden CO	303-278-4000
Environmental Communications Inc	
Costa Mesa CA	714-557-7800
Frenchtown Ceramics Co Frenchtown NJ	201-996-2121
GTE Precision Materials Danvers MA	617-777-1900
Hytek Microsystems Inc Los Gatos CA	408-395-2300
Idea Industries Inc Millington NJ	201-647-2734
Integrated Circuits Inc Redmond WA	206-882-3100
Kyocera Intl Inc Elctn Comps Group	
San Diego CA	619-454-1800
Meller Co Adolf Providence RI	401-331-3717
Micropac Ind Inc Garland TX	214-272-3571
National Beryllia Div/General Ceramics Inc	
Haskell NJ	201-839-1600
Northwest Microcircuits Inc Corvallis OR	503-753-8242
NTK Technical Ceramic Div Richardson TX	214-235-8332
Parlex Corp Methuen MA	617-685-4341
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Stamet Mfg Corp Fairfield NJ	201-227-2432
TDK Corp Tokyo Japan	03-278-5111
Technology Glass Div Union City CA	415-487-5860
Teledyne Microelectronics Los Angeles CA	213-870-9831
Thickfilm Intl Inc Head MD	301-375-8666
Transistor Specialties Inc Danvers MA	617-774-8722
Valley Design Corp Littleton MA	617-486-8933
Victoreen Inc Cleveland OH	216-795-8200

SUBSTRATES—CERAMIC, THIN FILM

ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
TDK CORP TOKYO JAPAN	03-278-5111
TECIDA INC MOUNTAIN VIEW CA	415-967-2828
Accumet Engineering Corp Hudson MA	617-568-8311
Allen-Bradley Co Milwaukee WI	414-382-2000
Ceramic Systems San Diego CA	619-455-1500
Coors Porcelain Co Golden CO	303-278-4000
Crystal Systems Inc Salem MA	617-745-0088
Electro-Films Inc Warwick RI	401-738-9150
Environmental Communications Inc	
Costa Mesa CA	714-557-7800
GTE Precision Materials Danvers MA	617-777-1900
Idea Industries Inc Millington NJ	201-647-2734
Meller Co Adolf Providence RI	401-331-3717
Micropac Ind Inc Garland TX	214-272-3571
National Beryllia Div/General Ceramics Inc	
Haskell NJ	201-839-1600
NTK Technical Ceramic Div Richardson TX	214-235-8332
Optical Coating Lab Inc Santa Rosa CA	707-545-6440
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Stamet Mfg Corp Fairfield NJ	201-227-2432
TDK Corp Tokyo Japan	03-278-5111
Tecida Inc Mountain View CA	415-967-2828
Teledyne Microelectronics Los Angeles CA	213-870-9831
Valley Design Corp Littleton MA	617-486-8933
Victoreen Inc Cleveland OH	216-795-8200

SUBSTRATES—GLASS

LIBERTY MIRROR DIV/LOF GLASS	
BRACKENRIDGE PA	412-224-1800
ADV PG 297	

Atlantic Optical Moulding Co Dudley MA	617-943-1746
BMI Textron Lake Park FL	305-842-1707
Corning Glass Works Elctn Materials Dept	
Corning NY	607-974-4102
Corning Glass Works Tech Prods Div	
Corning NY	607-974-9000
Davidson Optonics Inc West Covina CA	818-962-5181
Dell Optics Co Inc North Bergen NJ	201-869-7300
Dynasil Corp of America Berlin NJ	609-767-4600
Elgin Precision Glass Inc Elgin IL	312-931-1200
Esco Products Oak Ridge NJ	201-897-3700
Fusite Div Emerson Electric Co Cincinnati OH	513-731-2020
Liberty Mirror Div/LOF Glass	
Brackenridge PA	412-224-1800
Meller Co Adolf Providence RI	401-331-3717
Melles Griot Irvine CA	714-556-8200
Mindrum Precision Products	
Rancho Culamonga CA	714-989-1728
Optical Coating Lab Inc Santa Rosa CA	707-545-6440
Quartzite Processing Inc Malden MA	617-322-1380
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Stamet Mfg Corp Fairfield NJ	201-227-2432
Technology Glass Div Union City CA	415-487-5860
Thermal America Fused Quartz Co	
Montville NJ	201-334-7770
Valley Design Corp Littleton MA	617-486-8933

SUBSTRATES—SAPPHIRE

Crystal Systems Inc Salem MA	617-745-0088
Larsen Precision Components Corp	
New York NY	212-233-2491
Meller Co Adolf Providence RI	401-331-3717
Melles Griot Irvine CA	714-556-8200
Semiconductor Mfg Corp Fairfield NJ	201-227-2432
Swiss Jewel Co Philadelphia PA	215-925-2867
Valley Design Corp Littleton MA	617-486-8933
Valpey-Fisher Corp Hopkinton MA	617-435-6831

SUBSTRATES—SPECIAL MATERIALS

See Material Desired (Ceramics—Piezoelectric; Quartz; Etc.)

SUPPRESSORS

EDAL INDUSTRIES INC EAST HAVEN CT	203-467-2591
ADV PG 388	
INTERNATIONAL RECTIFIER SEMICONDUCTOR DIV	
EL SEGUNDO CA	213-772-2000
MICROSEMI CORP SANTA ANA CA	714-979-8220
PHILIPS ECG INC WALTHAM MA	617-890-6107
SUPERIOR ELECTRIC CO THE	
BRISTOL CT	203-582-9561
Acme Electric Corp Olean NY	716-968-2400
Brooks Mfg Co Philadelphia PA	215-425-3395
Capcon Inc New York NY	212-243-6275
Control Concepts Corp Binghamton NY	607-724-2484
Cuesta Systems Inc San Luis Obispo CA	805-541-4160
Dynatech Computer Power Inc	
Scotts Valley CA	800-638-9098
Eastern Delta Corp Nutley NJ	201-667-8721
Edal Industries Inc East Haven CT	203-467-2591
Electrocube San Gabriel CA	213-573-3300
Estes Engineering Co Port Angeles WA	206-457-0904
General Instrument Corp Discrete Semiconductor Div	
Hicksville NY	516-933-3333
General Semiconductor Industries Inc	
Tempe AZ	602-968-3101
Green Rectifier Corp Nutley NJ	201-667-8721
Hi-Tech Components/Mitsubishi Intl	
New York NY	212-605-2607
International Rectifier Semiconductor Div	
El Segundo CA	213-772-2000
Kulka Smith Inc Manassas NJ	201-223-9400
LEA Dynatech Inc Santa Fe Springs CA	213-944-0916
Microsemi Corp Santa Ana CA	714-979-8220
Multipier Industries Corp Mt Vernon NY	914-699-0990
Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Phonix Terminal Blocks Inc Harrisburg PA	717-944-1300
PolyPhaser Corp Gardenville NY	702-782-2511
Power Integrity Corp Greensboro NC	919-379-9773
Roederstein Electronics Inc Statesville NC	704-872-8101
Rtrion Corp Skokie IL	312-679-7180
Sanford Miller Corp Lynbrook NY	800-645-5900
Semicon Components Inc Burlington MA	617-272-9015
Sohio Carborundum Niagara Falls NY	716-278-2521
Standard Condenser Corp Chicago IL	312-327-5440
S T Semicon Inc Bloomington IN	812-332-1435
Superior Electric Co The Bristol CT	203-582-9561
Surgeonics Ltd Mt Kisco NY	914-241-3203
Topaz Inc San Diego CA	619-569-7982
Victoreen Inc Cleveland OH	216-795-8200

SURFACE ANALYZERS

Atomika Inc Pittsburgh PA	412-963-8202
Bearing Inspection Inc Santa Fe Springs CA	213-944-6251
Coherent Inc Palo Alto CA	415-493-2111
GCA/IC Systems Group Bedford MA	617-275-5400
Kratos Analytical Ramsey NJ	201-934-9000
Marduth Products Hinkley OH	216-239-1306
Physical Electronics Div Perkin-Elmer Corp	
Eden Prairie MN	612-828-6300
Rank Precision Industries Inc Des Plaines IL	312-297-7720
Sloan Technology Corp Santa Barbara CA	805-963-4431
Tencor Instruments Mtn View CA	415-969-6767
Thomson CSF Inc White Plains NY	914-694-4450
Varian Semiconductor Equip Group	
Palo Alto CA	415-493-4000

SURFACE-MOUNT DEVICES & TECHNOLOGY

ALCO ELECTRONIC PRODUCTS INC	
NORTH ANDOVER MA	617-685-4371
ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
ADV PGS 405 406 407	
DALE ELECTRONICS INC COLUMBUS DIV	
COLUMBUS NE	402-564-3131
DALE ELECTRONICS INC EL PASO DIV	
EL PASO TX	915-592-3253
DALE ELECTRONICS INC NORFOLK DIV	
NORFOLK NE	402-371-0080
DALE ELECTRONICS INC TEMPE DIV	
TEMPE AZ	602-967-7875
DALE ELECTRONICS INC YANKTON DIV	
YANKTON SD	605-665-9301
HASCO COMPONENTS INC	
BELLROSE VILLAGE NY	516-328-9292
ADV PG 392	
ITT COMPONENTS DIV SANTA ANA CA	714-836-0351
MEA DIV UNIVERSAL INSTRUMENTS CORP	
BINGHAMTON NY	607-772-7563
MULTI PRODUCTS INTERNATIONAL	
CEAR GROVE NJ	201-239-8183
RCD COMPONENTS INC	
MANCHESTER NH	603-669-0054
ADV PG 410	
SHIGMA INC ELK GROVE VILLAGE IL	800-323-0315
ADV PG 442	
TDK CORP TOKYO JAPAN	03-278-5111
THOMSON COMPONENTS MOSTEK CORP PASSIVE	
COMPS DIV WOODLAND HILLS CA	818-887-1010
Advantek Inc Minneapolis MN	612-944-7654
Affiliated Manufacturers Inc North Branch NJ	201-722-7100
Air-Vac Engineering Co Milford CT	203-874-2541
Alco Electronic Products Inc	
North Andover MA	617-685-4371
Allen-Bradley Co Milwaukee WI	414-382-2000
A P Products Incorporated Mentor OH	216-354-2101
Aptek Microsystems Deerfield Beach FL	305-421-8450
Apronics Corporation Mentor OH	800-792-0137
Associated Sales & Bag Co Milwaukee WI	414-272-2380
Augat Inc Attleboro MA	617-222-2202
Automated Production Concepts Inc	
Pompton Plains NJ	201-831-8300
Bourns Inc Resistive Components Group	
Riverside CA	714-781-5050
Centralab Inc A North American Philips Co	
Los Angeles CA	818-240-4880
Centralab Inc A North American Philips Co	
West Lafayette IN	317-463-2536
Copal Electronics Co Ltd Tokyo Japan	03-503-3777
Corlund Electronics Corp Newbury Park CA	805-499-6877
Dale Electronics Inc Columbus Div	
Columbus NE	402-564-3131
Dale Electronics Inc El Paso Div El Paso TX	915-592-3253
Dale Electronics Inc Norfolk Div Norfolk NE	402-371-0080
Dale Electronics Inc Tempe Div Tempe AZ	602-967-7875
Dale Electronics Inc Yankton Div Yankton SD	605-665-9301
Dale Electronics GMBH	
Puchheim West Germany	089/80960
Dale Electronics Ltd Scarborough ON	416-759-5631
Eastman Kodak Co Rochester NY	716-724-4000
El Microcircuits Inc Mankato MN	507-345-5786
Electronic Component Assembly Inc	
La Mesa CA	619-464-0910
Ferranti Electric Inc Semi-Conductor Group	
Comack NY	516-543-0200
Finlux Inc Cupertino CA	408-725-1972
General Instrument Corp Discrete Semiconductor Div	
Hicksville NY	516-933-3333
General Semiconductor Industries Inc	
Tempe AZ	602-968-3101
Gordos Corp Bloomfield NJ	201-743-6800
Handy & Harman Electronic Mats Corp	
North Attleboro MA	617-695-1401
Hasco Components Inc Bellrose Village NY	516-328-9292
Heller Industries Inc Florham Park NJ	201-377-6800
Hi-Tech Components/Mitsubishi Intl	
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ITT Components Div Santa Ana CA	714-836-0351
ITT Semiconductors Lawrence MA	617-688-1881
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Laurier Associates Inc Hudson NH	603-889-8800
MEA Div Universal Instruments Corp	
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Mitsubishi Electronics Amer Inc Semiconductor Div	
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Phoenix AZ	602-244-6900
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Oxley Developments Co Ltd	
Ulverston Cumbria England	0229-52621
Panduit Corp Tinley Park IL	312-532-1800
Plato Products Inc Glendora CA	818-967-3821
Promax-Johnston Electronic Corp Seal Beach	213-594-4557
QA Technology Co Inc Exeter NH	603-772-3450
Quality Components Inc St Marys PA	814-834-2817
RCD Components Inc Manchester NH	603-669-0054
Ross Co Milton Southampton PA	215-355-0200
SaRonix Palo Alto CA	415-856-6900
SFE Technologies San Fernando CA	818-365-9411
Shigma Inc Elk Grove Village IL	800-323-0315
Signetics Corp Sunnyvale CA	408-991-2000
SMD Technology Center Milwaukee WI	414-228-7632
Soltron Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
SP America Inc San Jose CA	408-947-0311
State of the Art Inc State College PA	814-355-8004

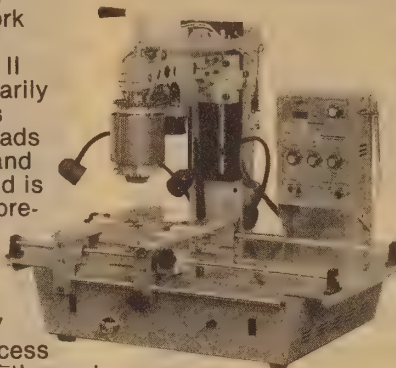
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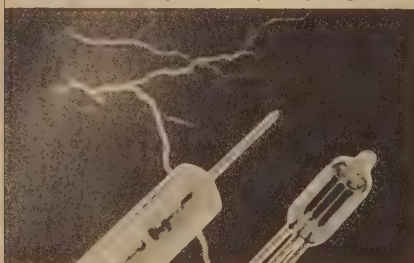
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Thomson Components Mostek Corp Passive Comps Div	
Woodland Hills CA.....	818-887-1010
Toko America Inc Mt Prospect IL.....	812-297-0070
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EDAL INDUSTRIES INC EAST HAVEN CT.....	203-467-2591
ADV PG 388	
ELEVAM CORP OHTA-KU TOKYO JAPAN.....	03-774-1231
ADV PG 432	
FIC CORP ROCKVILLE MD.....	301-881-8124
ADV PG 196	
INDUS-TOOL CORP CHICAGO IL.....	312-648-2191
ADV PG 357	
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EL SEGUNDO CA.....	213-772-2000
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PHILIPS ECG INC WALTHAM MA.....	617-890-6107
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BRISTOL CT.....	203-582-9561
ADV PG 433	
Ametek-Rodan Div Anaheim CA.....	714-630-0081
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Brooks Mfg Co Philadelphia PA.....	215-425-3395
Bud Industries Inc Willoughby OH.....	216-946-3200
Capcon Inc New York NY.....	212-243-6275
Clare Div General Instrument Corp Chicago IL.....	312-262-7700
Collmer Semiconductor Inc Dallas TX.....	214-233-1589
Control Concepts Corp Binghamton NY.....	607-724-2484
Craig Data Cable Co Inc Stamford CT.....	203-356-9315
Current Technology Inc Richardson TX.....	214-238-5300
Dale Electronics Inc Yankton Div Yankton SD.....	605-665-9301
Dale Electronics Ltd Scarborough ON.....	416-759-5631
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Boonton NJ.....	201-334-3100
Eastern Delta Corp Nutley NJ.....	201-667-8721
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Electro Standards Lab Inc Providence RI.....	401-943-1164
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General Semiconductor Industries Inc	
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Green Rectifier Corp Nutley NJ.....	201-667-8721
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International Rectifier Semiconductor Div	
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Isoreg Corp Littleton MA.....	617-486-9483
Joslyn Electronic Systems Div Goleta CA.....	805-968-3551
Kaligo Electronics Co Inc Bethlehem PA.....	215-837-0700
Keystone Carbon Co Thermistor Div	
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Pulizzi Engineering Inc Santa Ana CA.....	714-540-4229
Quality Components Inc St Marys PA.....	814-834-2817
Raychem Corp Menlo Park CA.....	415-361-3333
RCA Distr & Special Prods Div Deptford NJ.....	609-541-3636
Reliable Electric/Utility Products	
Franklin Park IL.....	312-455-8010
Reliance Electric Co Cleveland OH.....	800-245-4497
Sager Hingham MA.....	617-749-6700
Square D Co Palatine IL.....	312-397-2600

Staffall Inc Providence RI.....	401-351-8282
Superior Electric Co The Bristol CT.....	203-582-9561
Surgeonics Ltd Mt Kisco NY.....	914-241-3203
Sylvania Control Devices Standish ME.....	207-642-4535
Topaz Inc San Diego CA.....	619-569-7982
Tripp Mfg Co/Tripp Lite Chicago IL.....	312-329-1777
UTC/Television Technology Corp Broomfield CO.....	303-465-4141
Vermont Automation Co Inc Essex Junction VT.....	802-879-7571
Victoreen Inc Cleveland OH.....	216-795-8200
Wuerth Products Div Hollywood FL.....	305-920-4111

SWEEP OSCILLATORS

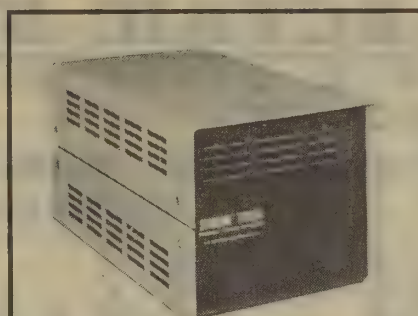
See Generators—Signal

SWITCHES—BAROMETRIC

PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
WKS Instruments Inc Burlington MA.....	617-272-9255
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Precision Sensors Inc Milford CT.....	203-877-2795
Westport Dev & Mfg Co Inc Orange CT.....	203-795-0871

SWITCHES—COAXIAL, RF

BIRD ELECTRONIC CORP CLEVELAND (SOLON) OH.....	216-248-1200
COMPAC HOLBROOK NY.....	516-585-3400
ADV PG 174	
GENERAL MICROWAVE CORP AMITYVILLE NY.....	516-226-8900
ADV PG 445	
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ADV PGS Green Pages/Footstrips	
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A D Data Systems Inc Rochester NY.....	716-334-9649
Alaun Engineering Montrose CA.....	818-957-0618
Alpha Industries Inc Woburn MA.....	617-935-5150
Applied Research Inc Plainville NY.....	516-349-9200
Arre Inc Bay Shore NY.....	516-231-8400
Automatic Connector Inc Commack NY.....	516-543-5000
Barker & Williamson Bristol PA.....	215-788-5581
Bird Electronic Corp Cleveland (Solon) OH.....	216-248-1200
Compac Holbrook NY.....	516-585-3400
Computer Cable & Products Inc Farmingdale NY.....	516-293-1610
Calco Industries Inc Compton CA.....	213-631-1143
Delta Electronics Inc Alexandria VA.....	703-354-3350
Dielectric Comm Unit General Signal Raymond ME.....	207-655-4555
Dynatech UZ Inc Venice CA.....	213-392-9821
Eastern Microwave Corp Woburn MA.....	617-935-8600
Eaton Corp Microwave Prods Div Sunnyvale CA.....	408-730-6300
E-H Electronics Inc Fremont CA.....	415-651-2340
Elma Switch Corp Irvine CA.....	714-261-0160
Elth Dimension Inc Trenton NJ.....	609-393-8350
EC Electronics Div Household Intl Rockford IL.....	815-968-9661
General Microwave Corp Amityville NY.....	516-226-8900
Gilrose Electric USA Inc Chatsworth CA.....	818-709-1247
Gmac Santa Clara CA.....	408-727-1970
Jannings Div FL Industries San Jose CA.....	408-292-4025
DI Electronics Inc Whippary NJ.....	201-887-8100
Jogus Mfg Corp Deer Park NY.....	516-242-5970
VC Industries Inc Co-Ord Switch Div Freeport NY.....	516-868-1900
M/A-COM Advanced Semiconductor Oper Burlington MA.....	617-272-3000
M/A-COM Microwave Circuits Inc Burlington MA.....	617-272-3000
M/A-COM Microwave Components Inc Burlington MA.....	617-272-3000
M/A-COM Solid State Circuits Hudson NH.....	603-880-1911
Marlee Switch Co Upland CA.....	714-982-8988
Matrix Systems Corp Calabasas CA.....	818-992-6776
Maurly Microwave Corp Cucamonga CA.....	714-987-4715
Mektron Corp Webster MA.....	617-943-7440
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Philmore Mfg Co Inc Inwood NY.....	516-239-6161
Racal-Dana Instruments Inc Irvine CA.....	714-859-8999
RLC Electronics Inc Mt Kisco NY.....	914-241-1334
Sage Laboratories Inc Natick MA.....	617-653-0844
Sanders Associates Inc Nashua NH.....	603-885-4321
Struthers Electronics Corp Farmingdale NY.....	516-420-9000
Support Systems Intl Cables & Access Div Richmond CA.....	415-234-9090
Teledyne Microwave Mtn View CA.....	415-968-2211
Telonic/Berkeley Laguna Beach CA.....	714-494-9401
Transco Products Inc Camarillo CA.....	805-987-2201
TRW Microwave Sunnyvale CA.....	408-732-0880
Varian Electron Device Group Palo Alto CA.....	415-493-4000
Var-L Co Inc Denver CO.....	303-371-1560
Wabash Relay & Electronics Div Wabash IN.....	219-563-2191
Wayline Inc West Caldwell NJ.....	201-226-9100
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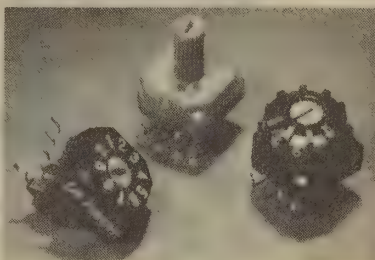
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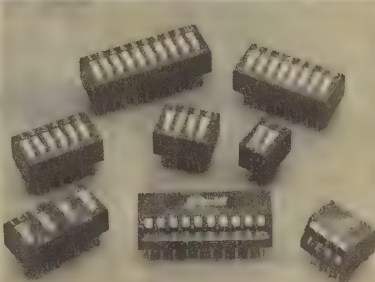
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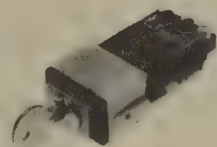
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- All types mount in a round hole
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- Momentary or maintained action
- Maintained action is position indicating
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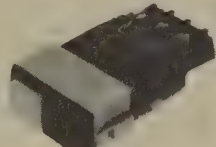
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- Double pole, Double throw Momentary or Maintained action on both 380 Volt 10 Amp contacts
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- Key Lock available

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03



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- Double pole, single or 2 button action
- Momentary, Maintained or combination
- Independent or Interlocked
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04



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- Round or Square panel front
 - Snap together modular design
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 - Lighted and unlighted pushbuttons
 - Mounts in 890" round hole
 - Lever, Key-Lock, Emergency Stop actuators

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- Round lens cap—6 colors
- Mount from rear of panel
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- Momentary or maintained action
- Lamps replaceable from front
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5 Amp 250 volt
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- 9 mm (.354") centers.
- Round or square bezel
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μA up to 100 mA
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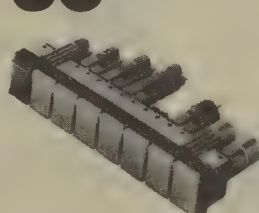
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- Non illuminated version of the Series 11 with 6 different colored actuator button.
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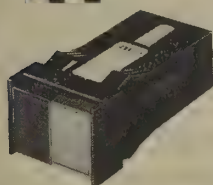
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- 2 lamp switch
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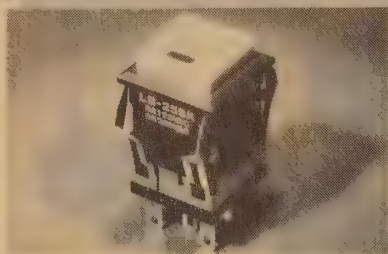
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SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
SHIGMA INC ELK GROVE VILLAGE IL.....	800-323-0315
ADV PG 442	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
UNIMAX SWITCH CORP WALLINGFORD CT.....	203-269-8701
ADV PGS 438, 452	

Advanced Input Devices Coeur d'Alene ID.....	208-765-8000
AEG Corporation Somerville NJ.....	201-722-9800
Aerospace Optics Inc Fort Worth TX.....	817-451-1141

Alco Electronic Products Inc North Andover MA.....	617-685-4371
Allen-Bradley Co Milwaukee WI.....	414-382-2000
Almo Electronics Inc Philadelphia PA.....	215-698-4000
Alps Electric (USA) Inc Rockville Centre NY.....	516-766-3636
American Switch Corp Wakefield MA.....	617-246-1007
Arcoelectric Corp Canoga Park CA.....	818-700-1933
Aromat Corp Mountainside NJ.....	201-232-4260
Augat Inc Attleboro MA.....	617-222-2202
Baco Controls Inc Cazenovia NY.....	315-655-8372
Bowmar Instrument Corp Commercial Prods Div Clearwater FL.....	813-576-2525
Burgess Switch Co Inc Northbrook IL.....	312-291-1760
Capitol Switch Inc Danbury CT.....	203-744-3300
Centralab Inc A North American Philips Co Fort Dodge IA.....	515-573-1300
C & K Components Inc Newton MA.....	617-964-6400
Conductive Rubber Technology Santa Barbara CA.....	805-969-5805
Cooper Industries Arrow Hart Hartford CT.....	203-249-8471
Crouse-Hinds Co Syracuse NY.....	315-477-7000
Dialight Corp Brooklyn NY.....	718-497-7600
Dreets Switch Inc Waukegan IL.....	800-323-9605
EA0 Switch Corp Milford CT.....	203-877-4577
Eaton Corp/Cutler-Hammer Products Milwaukee WI.....	414-449-6000
Eaton Corp/MSC Products Costa Mesa CA.....	714-642-2427

Electric Switches Inc Los Angeles CA.....	213-660-1310
Electro-Mech Components Inc So El Monte CA.....	818-442-7180
Electronic Components Groupe Plymouth MN.....	612-559-0720
Electronic Equipment Co Ltd Hempstead NY.....	516-538-5510
Elma Switch Corp Irvine CA.....	714-261-0160
Entirelec Div Cogenel Inc Spring Valley NY.....	800-431-2300
Furnas Electric Co Batavia IL.....	312-879-6000
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
Ghielmetti Inc Los Angeles CA.....	213-463-5111
Grayhill Inc La Grange IL.....	312-354-1040
Grimes Div Midland Ross Corp Urbana OH.....	513-652-143
Histar Corp New York NY.....	212-679-2706
Idec Izumi Corp Osaka Japan.....	81-6-20055
IDEC Systems & Controls Corp Santa Clara CA.....	408-988-7500
IEE Industrial Electronic Engineers Inc Van Nuys CA.....	818-787-0311
Industrial Electronic Hardware Corp New York NY.....	212-677-188
Inmark Corp Norwalk CT.....	203-866-8474
Innovation Industries Inc Russellville AR.....	501-968-2230
ITT Shadow Inc Eden Prairie MN.....	612-934-4400
ITW Switches Chicago IL.....	312-282-4040
JAE Electronics Inc Santa Ana CA.....	714-250-8770
Jay-El Products Inc Gardena CA.....	313-323-7130
Kofry Electronics Co Seattle WA.....	206-281-1300
Ledex Inc Electromechanical Prods Vandalia OH.....	513-898-3621
Littelfuse Inc Des Plaines IL.....	312-824-1188
Marquardt Switches Inc Cazenovia NY.....	315-655-8050
Mechanical Enterprises Inc Herndon VA.....	703-435-4940
Microavionics Costa Mesa CA.....	714-957-6904
Micro Switch A Honeywell Div Freeport IL.....	815-235-6600
Molex Inc Lisle IL.....	312-969-4550
Mouser Electronics Mansfield TX.....	817-483-0165
NKK Switches of America Inc Scottsdale AZ.....	602-991-0942
Nova-Tronix Inc Santa Clara CA.....	408-727-9530
Oak Switch Systems Inc Crystal Lake IL.....	815-459-5000
Omron Electronics Inc Schaumburg IL.....	312-843-7900
Oshino Electric Lamp Works Ltd Tokyo Japan.....	03-471-8548
Oslo Controls Inc Cheshire CT.....	203-272-2794
Park Distributors Inc Bridgeport CT.....	203-366-7200
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Preh Electronics Industries Inc Niles IL.....	312-647-8338
Risk Industries Inc George Kimball NE.....	308-235-4643
Sager Hingham MA.....	617-749-6700
Schurter Inc Petaluma CA.....	707-778-6311
Seacor Inc Westwood NJ.....	201-666-5600
Secme Switch Div Sandberg Industries Irvine CA.....	714-261-0611
Shelly Assoc Inc Tustin CA.....	714-669-9850
Shigma Inc Elk Grove Village IL.....	800-323-0315
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Sorenson Lighted Controls Inc Hartford CT.....	203-527-3000
SP America Inc San Jose CA.....	408-947-0311
Specialties Mfg Co St Clair Shores MI.....	800-482-2821
Square D Co Palatine IL.....	312-397-2600
Stacoswitch Inc Costa Mesa CA.....	714-549-3041
Switchcraft Inc Chicago IL.....	312-792-2700
TEC Inc Tucson AZ.....	602-792-2230
Toko America Inc Mt Prospect IL.....	312-297-0070
Touch-Plate International Inc Paramount CA.....	213-636-8171
Transcoil Inc Worcester PA.....	215-277-1300
Unimax Switch Corp Wallingford CT.....	203-269-8701
Universal Enterprises Inc Portland OR.....	503-644-8721
Vetronix Inc Lexington NE.....	308-324-4600
Ward Leonard Electric Co Mt Vernon NY.....	914-664-1000
Wes-Garde Components Group Inc Hartford CT.....	203-525-6907

SWITCHES—INERTIA

COLE INSTRUMENT CORP SANTA ANA CA.....	714-556-3100
PEERLESS RADIO CORP LYNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
Accudyne Corp Janesville WI.....	608-752-9000
Cole Instrument Corp Santa Ana CA.....	714-556-3100
Humphrey Inc San Diego CA.....	619-565-6631
Metrix Instrument Co Houston TX.....	713-461-2131
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Raymond Engineering Inc Middletown CT.....	203-632-1000
Syston Donner Inertial Div Concord CA.....	415-671-6400
Technar Inc Arcadia CA.....	818-447-1187

SWITCHES—INTERLOCK (SAFETY)

ALCO ELECTRONIC PRODUCTS INC NORTH ANDOVER MA.....	617-685-4371
ADV PG 436	
EA0 SWITCH CORP MILFORD CT.....	203-877-4577
ADV PG 437	
ELECTRIC SWITCHES INC LOS ANGELES CA.....	213-660-1310
ADV PGS 434, 435	
MARQUARDT SWITCHES INC CAZENOVIA NY.....	315-655-8050
ADV PG 446	
PEERLESS RADIO CORP LYNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
SHIGMA INC ELK GROVE VILLAGE IL.....	800-323-0315
ADV PG 442	
Alco Electronic Products Inc North Andover MA.....	617-685-4371
American Solenoid Co Inc Somerset NJ.....	201-560-1240
Burgess Switch Co Inc Northbrook IL.....	312-291-1760
Capitol Switch Inc Danbury CT.....	203-744-3300
Carlingswitch Inc W Hartford CT.....	203-233-5551
Centralab Inc A North American Philips Co Fort Dodge IA.....	515-573-1300
Cherry Electrical Products Corp Waukegan IL.....	312-662-9200
Cooper Industries Arrow Hart Hartford CT.....	203-249-8471

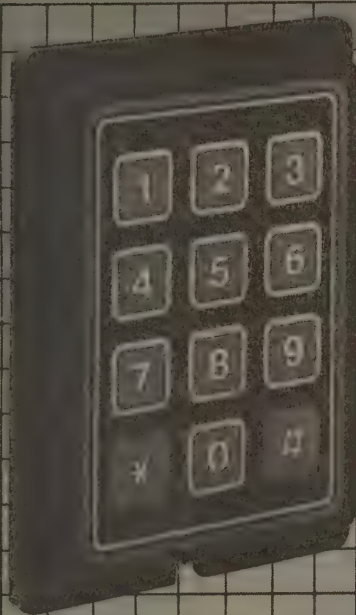
One Page Guide to Quality Switching

(Complete details in the 192 page Grayhill Engineering Catalog.)

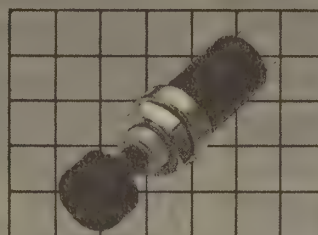
KEYBOARDS

12, 16 or 20 button pads —
"Build-your-own" modules —
or customized panels

- Snap-dome contact system provides tactile and audible feedback
- Matrix, 2 out of 7 (8), or SP common bus circuitry
- Up to 3 million operations per button
- Logic compatible
- Electroluminescent lighting
- Button centers .5 inch (12.7mm), .688 inch (17.4mm) or .75 inch (19mm)
- Sealed or unsealed
- Post, flange or PC mount
- Full-feature .1 inch (2.5mm) thin version available
- Custom keyboards — Grayhill will design your panel!



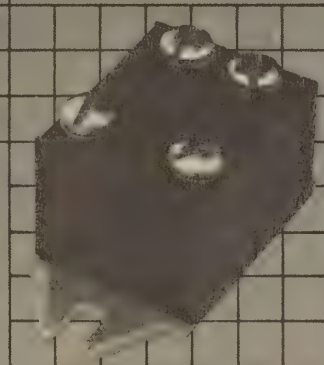
What you see here is just a brief summary of the hundreds of fine switching products Grayhill produces today. But it also reflects Grayhill's 40-year commitment to maintaining the highest switch standards... in design, production, and customer convenience.



PUSHBUTTON SWITCHES

A million reasons to choose Grayhill... up to 1 million operations.

- As small as .250 inch (6.35mm) diameter, .675 inch (17.15mm) overall length
- SPST, SPDT, DPST or DPDT circuitry
- Choice of wiping, snap-action or butt contact
- Maximum ratings from 250 mA to 10 amp
- Lightable versions



SOLID STATE RELAYS

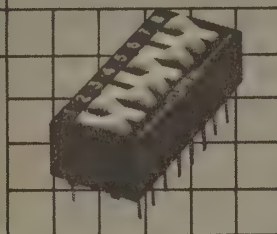
Built with surface-mount technology for higher component density and better thermal management

- Demonstrated 100,000 hours MTBF (test data to date); AQL of 0.065%
- Excellent transient protection
- High blocking voltage components
- Logic circuit compatibility

DIP SWITCHES

The industry's favorite!

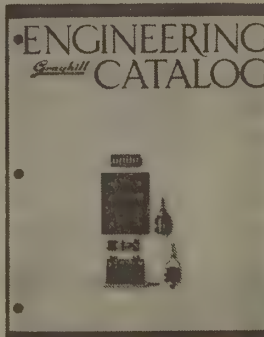
- Unique spring-loaded ball contact system provides 35,000 cycle life
- Choice of rocker or slide (raised or recessed), toggle or side actuation
- 2 to 12 positions
- SPST, DPST through 4PST, SPDT, DPDT, BCD and hexadecimal circuitry
- Epoxy sealed bases standard; optional top seal
- Space-saving adjustable attenuator versions
- Surface-mountable switches and programmable shunts
- Machine-insertable switches available
- 100% electrical inspection
- 100% pin straightening



ROTARY SWITCHES

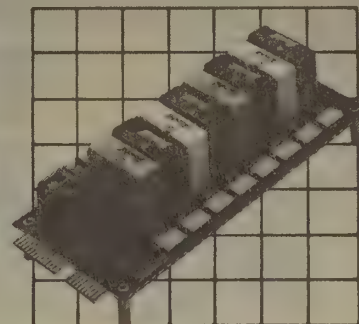
Small, enclosed, affordable.

- Miniature size — .298 inch (7.54mm) O.D. to 1.35 inch (25.75mm) O.D.
- 1 to 12 decks; 1 to 12 poles per deck; 2 to 24 positions per pole
- Up to 25,000 cycle life (at 50mA)
- PC or solder lug terminals
- Maximum ratings from 200 mA to 5 amp
- Fixed or adjustable stops
- Sealed or unsealed versions
- Keylocks.



FREE CATALOG

Grayhill switches, keyboards and relays are available from Grayhill or your local authorized distributor. Call or write for your FREE copy of the Grayhill Engineering Catalog, with prices and specifications on all these products.



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Outstanding specs, performance, pricing

- All standard configurations
- 5, 15, and 24 volt
- Logic compatibility



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Crouzet Controls Inc Schaumburg IL	312-843-2200
Custom Control Sensors Inc Chatsworth CA	818-341-4610
Dietz Co Inc Henry G Long Island City NY	718-726-3347
Drefts Switch Inc Waukegan IL	800-323-9605
EAO Switch Corp Milford CT	203-877-4577
Eaton Corp/Cutler-Hammer Products Milwaukee WI	414-449-6000
Eaton Corp/MSC Products Costa Mesa CA	714-642-2427
Electric Switches Inc Los Angeles CA	213-660-1310
Electro-Mech Components Inc So El Monte CA	818-442-7180
Elmco Switch Corp Irvine CA	714-261-0160
Fifth Dimension Inc Trenton NJ	609-393-8350
GC Electronics Div Household Intl Rockford IL	815-968-9661
Indak Mfg Co Northbrook IL	312-272-0343
ITT Switching Inc Eden Prairie MN	612-934-4400
ITW Switches Chicago IL	312-282-4040
Korri Electronics Co Seattle WA	206-281-1300
Marquardt Switches Inc Cazenovia NY	315-655-8050
Micro Switch A Honeywell Div Freeport IL	815-235-6600
Oak Switch Systems Inc Crystal Lake IL	815-459-5000
Park Distributors Inc Bridgeport CT	203-366-7200
Peerless Radio Corp Lynbrook NY	516-593-2121
Raymond Engineering Inc Middletown CT	203-632-1000
Sager Hingham MA	617-749-6700
Schurter Inc Petaluma CA	707-778-6311
Shigma Inc Elk Grove Village IL	800-323-0315
Square D Co Palatine IL	312-397-2600

SWITCHES—KEY OPERATED

ALCO ELECTRONIC PRODUCTS INC NORTH ANDOVER MA	617-685-4371
ADV PG 436	
ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
C & K COMPONENTS INC NEWTON MA	617-964-6400
ADV PGS 441, 443, 447, 449, 451, 452, 453, 454, 455	
EAO SWITCH CORP MILFORD CT	203-877-4577
ADV PG 437	
ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
ELECTRONIC EQUIPMENT CO LTD HEMPSTEAD NY	516-538-5510
GRAYHILL INC LA GRANGE IL	312-354-1040
ADV PG 439	
JANCO CORP BURBANK CA	818-846-1800
ADV PG 450	
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
POWER DYNAMICS INC WEST ORANGE NJ	201-736-5722
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHIGMA INC ELK GROVE VILLAGE IL	800-323-0315
ADV PG 442	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
UNIMAX SWITCH CORP WALLINGFORD CT	203-269-8701
ADV PGS 438, 452	
Alco Electronic Products Inc North Andover MA	617-685-4371
Allen-Bradley Co Milwaukee WI	414-382-2000
American Solenoid Co Inc Somerset NJ	201-560-1240
Ark-Les Corp Watertown MA	617-924-2330
Augat Inc Attleboro MA	617-222-2202
Baco Controls Inc Cazenovia NY	315-655-8372
Chicago Lock Co Chicago IL	312-282-7177
C & K Components Inc Newton MA	617-964-6400
Conductive Rubber Technology Santa Barbara CA	805-969-5805
Cooper Industries Arrow Hart Hartford CT	203-249-8471
Crouse-Hinds Co Syracuse NY	315-477-7000
Crouzet Controls Inc Schaumburg IL	312-843-2200
Drefts Switch Inc Waukegan IL	800-323-9605
EAO Switch Corp Milford CT	203-877-4577
Eaton Corp/Cutler-Hammer Products Milwaukee WI	414-449-6000
Electric Switches Inc Los Angeles CA	213-660-1310
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Electroswitch Weymouth MA	617-335-5200
Elma Switch Corp Irvine CA	714-261-0160
Entrellec Div Cogenel Inc Spring Valley NY	800-431-2308
Furnas Electric Co Batavia IL	312-879-6000
GC Electronics Div Household Intl Rockford IL	815-968-9661
Ghielmetti Inc Los Angeles CA	213-463-5111
Grayhill Inc La Grange IL	312-354-1040
Harvey Hubble Inc Bridgeport CT	203-333-1181
Idec Izumi Corp Osaka Japan	81-6-2005530
IDEC Systems & Controls Corp Santa Clara CA	408-988-7500
Indak Mfg Co Northbrook IL	312-272-0343
JAE Electronics Inc Santa Ana CA	714-250-8770
Janco Corp Burbank CA	818-846-1800
Leecraft Mfg Co Inc Long Island City NY	718-392-8800
Micro Switch A Honeywell Div Freeport IL	815-235-6600
Mitsumi Electronics Corp Melville NY	516-752-7730
Mountain West Alarm Supply Co Phoenix AZ	602-263-8831
Mouser Electronics Mansfield TX	817-483-0165
Oak Switch Systems Inc Crystal Lake IL	815-459-5000
Park Distributors Inc Bridgeport CT	203-366-7200
Peerless Radio Corp Lynbrook NY	516-593-2121
Power Dynamics Inc West Orange NJ	201-736-5722
Preh Electronics Industries Inc Niles IL	312-647-8338
Sager Hingham MA	617-749-6700
Shigma Inc Elk Grove Village IL	800-323-0315
Shokai Far East Ltd Hartsdale NY	914-681-0700
SMK Electronics Corp USA Placentia CA	714-996-0960
Specialties Mfg Co St Clair Shores MI	800-482-2828
Square D Co Palatine IL	312-397-2600
Tansitor Electronics Inc Bennington VT	802-442-5473
TEC Inc Tucson AZ	602-792-2230
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Toko America Inc Mt Prospect IL	312-297-0070

Unimax Switch Corp Wallingford CT	203-269-8701
Ward Leonard Electric Co Mt Vernon NY	914-664-1000

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ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Anderson Power Products Boston MA	617-787-5880
Carbone USA Corp Boonton NJ	201-334-0700
Eaton Corp/Cutler-Hammer Products Milwaukee WI	414-449-6000
GC Electronics Div Household Intl Rockford IL	815-968-9661
Peerless Radio Corp Lynbrook NY	516-593-2121
Rapid Electric Co Inc Brookfield CT	800-332-1111
Shokai Far East Ltd Hartsdale NY	914-681-0700
States Co Div Multi-Amp Corp Dallas TX	214-333-3201
Wadsworth Electric Mfg Co Inc Covington KY	606-431-0900

SWITCHES—LEVER

ALCO ELECTRONIC PRODUCTS INC NORTH ANDOVER MA	617-685-4371
ADV PG 436	
ALPS ELECTRIC (USA) INC ROCKVILLE CENTRE NY	516-766-3636
ADV PG 111	
C & K COMPONENTS INC NEWTON MA	617-964-6400
ADV PGS 441, 443, 447, 449, 451, 452, 453, 454, 455	
EAO SWITCH CORP MILFORD CT	203-877-4577
ADV PG 437	
ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
JANCO CORP BURBANK CA	818-846-1800
ADV PG 450	
MARQUARDT SWITCHES INC CAZENOVIA NY	315-655-8050
ADV PG 446	
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
UNIMAX SWITCH CORP WALLINGFORD CT	203-269-8701
ADV PGS 438, 452	
Alco Electronic Products Inc North Andover MA	617-685-4371
Alps Electric (USA) Inc Rockville Centre NY	516-766-3636
American Switch Corp Wakefield MA	617-246-1007
Arcollectric Corp Canoga Park CA	818-700-1933
Ark-Les Corp Watertown MA	617-924-2330
Capitol Switch Inc Danbury CT	203-744-3300
Carlingswitch Inc W Hartford CT	203-233-5551
Centralab Inc North American Philips Co Fort Dodge IA	515-573-1300
Cherry Electrical Products Corp Waukegan IL	312-662-9200
Chicago Switch Inc Sub III Tool Wks Chicago IL	312-489-5500
C & K Components Inc Newton MA	617-964-6400
Control Products Inc East Hanover NJ	201-887-9400
Cooper Industries Arrow Hart Hartford CT	203-249-8471
Crouse-Hinds Co Syracuse NY	315-477-7000
Crouzet Controls Inc Schaumburg IL	312-843-2200
Digitran/Computron Inc Pasadena CA	818-791-5600
EAO Switch Corp Milford CT	203-877-4577
Electric Switches Inc Los Angeles CA	213-660-1310
GC Electronics Div Household Intl Rockford IL	815-968-9661
Haydon Switch & Instrument Inc Waterbury CT	203-756-7441
Idec Izumi Corp Osaka Japan	81-6-2005530
Indak Mfg Co Northbrook IL	312-272-0343
ITW Switches Chicago IL	312-282-4040
Janco Corp Burbank CA	818-846-1800
Marquardt Switches Inc Cazenovia NY	315-655-8050
Micro Switch A Honeywell Div Freeport IL	815-235-6600
Mouser Electronics Mansfield TX	817-483-0165
Oak Switch Systems Inc Crystal Lake IL	815-459-5000
Omron Electronics Inc Schaumburg IL	312-843-7900
Park Distributors Inc Bridgeport CT	203-366-7200
Peerless Radio Corp Lynbrook NY	516-593-2121
Preh Electronics Industries Inc Niles IL	312-647-8338
Radio Switch Corp Marlboro NJ	201-462-6100
Reed Switch Developments Co Inc Tyler TX	214-593-1898
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
SMK Electronics Corp USA Placentia CA	714-996-0960
Square D Co Palatine IL	312-397-2600
Standard Grigsby Inc Aurora IL	312-844-4300
Switchcraft Inc Chicago IL	312-792-7200
Tower Mfg Corp Providence RI	401-467-7550
Unimax Switch Corp Wallingford CT	203-269-8701

Alco Electronic Products Inc North Andover MA	617-685-4371
Alps Electric (USA) Inc Rockville Centre NY	516-766-3636
American Switch Corp Wakefield MA	617-246-1007
Arcollectric Corp Canoga Park CA	818-700-1933
Ark-Les Corp Watertown MA	617-924-2330
Capitol Switch Inc Danbury CT	203-744-3300
Carlingswitch Inc W Hartford CT	203-233-5551
Centralab Inc North American Philips Co Fort Dodge IA	515-573-1300
Cherry Electrical Products Corp Waukegan IL	312-662-9200
Chicago Switch Inc Sub III Tool Wks Chicago IL	312-489-5500
C & K Components Inc Newton MA	617-964-6400
Control Products Inc East Hanover NJ	201-887-9400
Cooper Industries Arrow Hart Hartford CT	203-249-8471
Crouse-Hinds Co Syracuse NY	315-477-7000
Crouzet Controls Inc Schaumburg IL	312-843-2200
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Electric Switches Inc Los Angeles CA	213-660-1310
GC Electronics Div Household Intl Rockford IL	815-968-9661
Haydon Switch & Instrument Inc Waterbury CT	203-756-7441
Idec Izumi Corp Osaka Japan	81-6-2005530
Indak Mfg Co Northbrook IL	312-272-0343
ITW Switches Chicago IL	312-282-4040
Janco Corp Burbank CA	818-846-1800
Marquardt Switches Inc Cazenovia NY	315-655-8050
Micro Switch A Honeywell Div Freeport IL	815-235-6600
Mouser Electronics Mansfield TX	817-483-0165
Oak Switch Systems Inc Crystal Lake IL	815-459-5000
Omron Electronics Inc Schaumburg IL	312-843-7900
Park Distributors Inc Bridgeport CT	203-366-7200
Peerless Radio Corp Lynbrook NY	516-593-2121
Preh Electronics Industries Inc Niles IL	312-647-8338
Radio Switch Corp Marlboro NJ	201-462-6100
Reed Switch Developments Co Inc Tyler TX	214-593-1898
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
SMK Electronics Corp USA Placentia CA	714-996-0960
Square D Co Palatine IL	312-397-2600
Standard Grigsby Inc Aurora IL	312-844-4300
Switchcraft Inc Chicago IL	312-792-7200
Tower Mfg Corp Providence RI	401-467-7550
Unimax Switch Corp Wallingford CT	203-269-8701

SWITCHES—LIMIT

ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
ALPS ELECTRIC (USA) INC ROCKVILLE CENTRE NY	516-766-3636
ADV PG 111	
COMPUTER CONVERSIONS CORP EAST NORTHPORT NY	516-261-3300
ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
ENVIROMARINE SYSTEMS INC LAUREL MD	301-598-8833
GRAYHILL INC LA GRANGE IL	312-354-1040
ADV PG 439	
JANCO CORP BURBANK CA	818-846-1800
ADV PG 450	

PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHIGMA INC ELK GROVE VILLAGE IL	800-323-0315
ADV PG 442	
UNIMAX SWITCH CORP WALLINGFORD CT	203-269-8701
ADV PGS 438, 452	
Acro Switch Warwick RI	401-738-4361
Allen-Bradley Co Milwaukee WI	414-382-2000
Alps Electric (USA) Inc Rockville Centre NY	516-766-3636
ARO Corp Bryan OH	619-636-4241
Astrosystems Inc Lake Success NY	516-328-1600
Burgess Switch Co Inc Northbrook IL	312-291-1761
Cherry Electrical Products Corp Waukegan IL	312-662-9200
Computer Conversions Corp East Northport NY	516-261-3300
Control Products Inc East Hanover NJ	201-887-9400
Crouzet Controls Inc Schaumburg IL	312-843-2200
Eaton Corp/Cutler-Hammer Products Milwaukee WI	414-449-6000
Electric Switches Inc Los Angeles CA	213-660-1310
Endress & Hauser Inc Greenwood IN	717-535-7131
Enviro Marine Systems Inc Laurel MD	301-598-8833
EOTec Corp West Haven CT	203-934-7961
Furnas Electric Co Batavia IL	312-879-6000
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Hamlin Inc Lake Mills WI	414-648-2361
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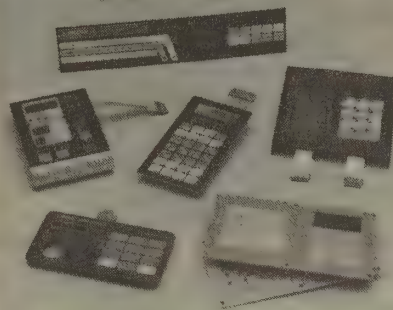
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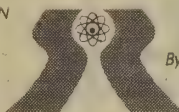
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PALISADES PARK NJ	201-944-2221
ADV PG 455	
Abrams Instrument Corp Lansing MI	517-332-6405
American Solenoid Co Inc Somerset NJ	201-560-1240
Bristol Saybrook Co Div Pratt-Read Corp	
Old Saybrook CT	203-388-3414

Cole Instrument Corp Santa Ana CA	714-556-3100
Collectron Corp Elmhurst NY	718-429-5200
Electroswitch Weymouth MA	617-335-5200
Histar Corp New York NY	212-679-2706
H & L Instruments Burlingame CA	415-342-7850
ITT Shadow Inc Eden Prairie MN	612-934-4400
Lake Shore Electric Corp Bedford OH	216-232-0200
Ledex Inc Electromechanical Prods	
Vandalia OH	513-898-3621
Microavionics Costa Mesa CA	714-957-6904
Oak Switch Systems Inc Crystal Lake IL	815-459-5000
Omron Electronics Inc Schaumburg IL	312-843-7900
Peerless Radio Corp Lynbrook NY	516-593-2121
Ross Engineering Corp Campbell CA	408-377-4621
Sparton Technology Inc Rio Rancho NM	505-892-5300
Tech Laboratories Inc Palisades Park NJ	201-944-2221

SWITCHES—MULTI-CONTACT, ROTARY MULTI-DECK OR SINGLE DECK

ALCO ELECTRONIC PRODUCTS INC	
NORTH ANDOVER MA	617-685-4371
ADV PG 436	
ALPS ELECTRIC (USA) INC	
ROCKVILLE CENTRE NY	516-766-3636
ADV PG 111	
C & K COMPONENTS INC NEWTON MA	617-964-6400
ADV PGS 441, 443, 447, 449, 451, 452, 453, 454, 455	
COLE INSTRUMENT CORP	
SANTA ANA CA	714-556-3100
ADV PG 450	
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
ELECTRONIC EQUIPMENT CO LTD	
HEMPSTEAD NY	516-538-5510
GRAYHILL INC LA GRANGE IL	312-354-1040
ADV PG 439	
JANCO CORP BURBANK CA	818-846-1800
ADV PG 450	
NKK SWITCHES OF AMERICA INC	
SCOTTSDALE AZ	602-991-0942
ADV PGS 433, 438, 450, 451, 453, 455	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG 455	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
POWER DYNAMICS INC	
WEST ORANGE NJ	201-736-5722
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHALCO INC SMITHFIELD NC	919-934-3135
ADV PGS 449, 450	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TECH LABORATORIES INC	
PALISADES PARK NJ	201-944-2221
ADV PG 455	

Airflyte Electronics Co Bayonne NJ	201-436-2230
Alco Electronic Products Inc	
North Andover MA	617-685-4371
Alps Electric (USA) Inc Rockville Centre NY	516-766-3636
AMP Products Corp Southeastern PA	215-647-1000
Arcoelectric Corp Canoga Park CA	818-700-1933
Ark-Les Corp Watertown MA	617-924-2330
Betatronix Inc Hauppauge NY	516-582-6740
Carbone USA Corp Boonton NJ	201-334-0700
Carson Mfg Co Inc Indianapolis IN	317-257-3191
Centralab Inc North American Philips Co	
Fort Dodge IA	515-573-1300
Chicago Switch Inc Sub III Tool Wks	
Chicago IL	312-489-5500
C & K Components Inc Newton MA	617-964-6400
Cole Instrument Corp Santa Ana CA	714-556-3100
CTS Corp Elkhart IN	219-293-7511
CTS Electronics Corp Paso Robles CA	805-238-0350
Daven Components Grp Armtec Indus Inc	
Manchester NH	603-669-0940
Digitran/Computron Inc Pasadena CA	818-791-5600
Drefts Switch Inc Waukegan IL	800-323-9605
Electric Switches Inc Los Angeles CA	213-660-1310
Electro National Corp Canton MS	601-859-5511
Electronic Equipment Co Ltd Hempstead NY	516-538-5510
Electroswitch Weymouth MA	617-335-5200
Elma Switch Corp Irvine CA	714-261-0160
Entrelec Div Cogenel Inc Spring Valley NY	800-431-2308
Ghielmetti Inc Los Angeles CA	213-463-5111
Gordos Corp Bloomfield NJ	201-743-6800
Grayhill Inc La Grange IL	312-354-1040
H & L Instruments Burlingame CA	415-342-7850
Immac Santa Clara CA	408-727-1970
ITT Shadow Inc Eden Prairie MN	612-934-4400
ITW Switches Chicago IL	312-282-4040
Janco Corp Burbank CA	818-846-1800
Ledex Inc Electromechanical Prods	
Vandalia OH	513-898-3621
Microavionics Costa Mesa CA	714-957-6904
Mitsumi Electronics Corp Melville NY	516-752-7730
Mountain West Alarm Supply Co Phoenix AZ	602-263-8831
NKK Switches of America Inc Scottsdale AZ	602-991-0942
Oak Switch Systems Inc Crystal Lake IL	815-459-5000
Ohmite Mfg Co Skokie IL	312-675-2600
Omega Engineering Inc Stamford CT	203-359-1660
Peerless Radio Corp Lynbrook NY	516-593-2121
Power Dynamics Inc West Orange NJ	201-736-5722
Radio Switch Corp Marlboro NJ	201-462-6100
Ross Engineering Corp Campbell CA	408-377-4621
Rowe Co L L Woburn MA	617-729-7860
Sager Hingham MA	617-749-6700
Shalco Inc Smithfield NC	919-934-3135
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sparton Technology Inc Rio Rancho NM	505-892-5300
Square D Co Palatine IL	312-397-2600
Standard Grigsby Inc Aurora IL	312-844-4300
Switchcraft Inc Chicago IL	312-792-2700
Tech Laboratories Inc Palisades Park NJ	201-944-2221
Tower Mfg Corp Providence RI	401-467-7550

Wes-Garde Components Group Inc	
Hartford CT	203-525-6907

SWITCHES—MULTI-CONTACT, TAP

ALPS ELECTRIC (USA) INC	
ROCKVILLE CENTRE NY	516-766-3636
ADV PG 111	
COLE INSTRUMENT CORP	
SANTA ANA CA	714-556-3100
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
GRAYHILL INC LA GRANGE IL	312-354-1040
ADV PG 439	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHALCO INC SMITHFIELD NC	919-934-3135
ADV PGS 449, 450	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TECH LABORATORIES INC	
PALISADES PARK NJ	201-944-2221
ADV PG 455	
Alps Electric (USA) Inc Rockville Centre NY	516-766-3636
American Solenoid Co Inc Somerset NJ	201-560-1240
Ark-Les Corp Watertown MA	617-924-2330
Cole Instrument Corp Santa Ana CA	714-556-3100
Electric Switches Inc Los Angeles CA	213-660-1310
Electroswitch Weymouth MA	617-335-5200
Gordos Corp Bloomfield NJ	201-743-6800
Grayhill Inc La Grange IL	312-354-1040
ITT Shadow Inc Eden Prairie MN	612-934-4400
Microavionics Costa Mesa CA	714-957-6904
Molex Inc Lisle IL	312-969-4555
Ohmite Mfg Co Skokie IL	312-675-2600
Peerless Radio Corp Lynbrook NY	516-593-2121
Ross Engineering Corp Campbell CA	408-377-4621
Sager Hingham MA	617-749-6700
Shalco Inc Smithfield NC	919-934-3135
Shokai Far East Ltd Hartsdale NY	914-681-0700
Square D Co Palatine IL	312-397-2600
Standard Grigsby Inc Aurora IL	312-844-4300
Tech Laboratories Inc Palisades Park NJ	201-944-2221
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

SWITCHES—OPTICAL

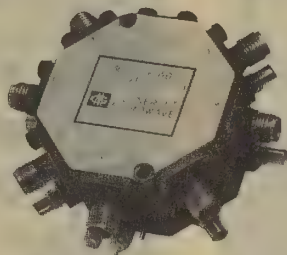
CLAIREX ELECTRONICS DIV CLAIREX CORP	
MT VERNON NY	914-664-6600
EG&G VACTEC ST LOUIS MO	314-423-4900
ADV PG 317	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
ABM Semiconductor Inc San Jose CA	408-297-7477
Bowmar Instrument Corp Commercial Prods Div	
Clearwater FL	813-576-2521
Clairex Electronics Div Clairex Corp	
Mt Vernon NY	914-664-6600
Dyneer Sensor Technology Chatsworth CA	818-882-4100
EG & G Vactec St Louis MO	314-423-4900
General Electric Semiconductor Syracuse NY	315-456-3440
Hyde Park Electronics Inc Dayton OH	513-435-2121
Kaptron Inc Palo Alto CA	415-493-8000
Marlee Switch Co Upland CA	714-982-8998
MEKontrol Inc Northboro MA	617-393-2455
Optek Technology Inc McKinney TX	214-542-9466
Peerless Radio Corp Lynbrook NY	516-593-2121
Sager Hingham MA	617-749-6700
Scientific Technology Inc Mtn View CA	415-965-0911
Siecor Corp Hickory NC	704-327-5000
Skan-A-Matic Corp Elbridge NY	315-689-3960
TRW Optoelectronics Div Carrollton TX	214-323-2200

SWITCHES—P-I-N DIODE

GENERAL MICROWAVE CORP	
AMITYVILLE NY	516-226-8900
ADV PG 445	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
Aiken Advanced Sys Div Amstar Tech Prods Inc	
Alexandria VA	703-370-0900
Alpha Industries Inc Woburn MA	617-935-5100
Arra Inc Bay Shore NY	516-231-8500
Custom Components Inc Lebanon NJ	201-534-6151
Daico Industries Inc Compton CA	213-631-1143
Dynatech UZ Inc Venice CA	213-392-9821
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9811
Frequency Sources Sub Lorol Corp	
Chelmsford MA	617-258-4115
General Microwave Corp Amityville NY	516-226-8900
Histar Corp New York NY	212-679-2706
JFW Industries Inc Indianapolis IN	317-887-1344
Lorch Electronics Corp Englewood NJ	201-569-8282
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
M/A-COM Solid State Circuits Hudson NH	603-880-1911
Mauri Microwave Corp Cucamonga CA	714-987-4715
Mini-Circuits Lab Brooklyn NY	718-934-4500
Mitsumi Electronics Corp Melville NY	516-752-7730
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-8900
The Narada Microwave Corp Hauppauge NY	516-231-1700
Olektron Corp Webster MA	617-943-7440
Peerless Radio Corp Lynbrook NY	516-593-2121
RLO Electronics Inc Mt Kisco NY	914-241-1334
Siecor Corp Hickory NC	704-327-5000

PIN DIODE CONTROL DEVICES FROM GENERAL MICROWAVE

PIN Diode Switches

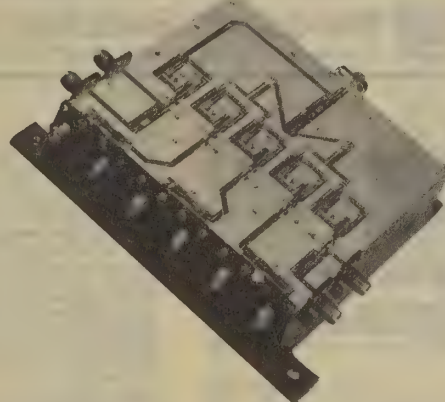


General Microwave's complete line of high performance broadband switches, with and without integral drivers, are available in three basic series.

- Ultra Broadband Series: 0.2 to 18 GHz, SPST to SP5T
- Multi Octave Band - Miniature Series: 0.2 to 4 GHz (Series 92) 2-18 GHz (Series 91); SPST TO SP7T
- Octave Band - High Speed Series: 10 nsec switching speed, 2-18 GHz; SP2T

Many models of each type are available to satisfy most requirements. Non-reflective switches, space qualified units and other special designs are also available.

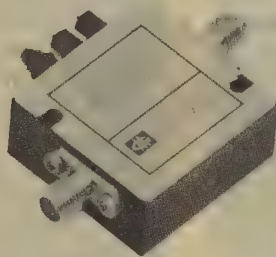
MIC Assemblies



General Microwave MIC assemblies can combine:

- Frequency Translators • High Speed Digitally Controlled Attenuators • Power Combiners and Dividers • High Speed Switches • Mixers • Amplifiers • Isolators • Directional Couplers • Phase Modulators • Filters and other signal conditioning and processing devices.

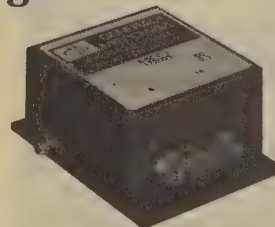
PIN Diode Modulators/ Attenuators



General Microwave's Series of PIN diode modulators/attenuators provide octave-band and greater than octave-band performance from 0.5 to 18 GHz. All at low cost.

Series	Bandwidth	Atten. Range (dB)	Control
D195	Octave	60	Linear Voltage
D196	Multi-octave	60	Linear Voltage
195	Octave	60	Current
M180	Ultra-broadband	60	Linear Voltage

Digitally Programmable PIN Diode Attenuators



General Microwave's Series of Digitally Programmable PIN Diode Attenuators provide octave-band and greater than octave-band performance from 0.2 to 18 GHz with wide programming flexibility. All at low cost. Their compact, rugged packages are well suited to military applications. They are available in drop-in module type configurations and hermetically sealed packages. Nanosecond switching speed modules are also available.

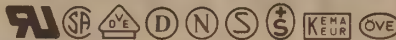
Series	Bandwidth	Atten. Range (dB)	LSB (dB)
329	Octave	80 & 120	0.1
345	Octave	60	0.25
346	Multi-octave	60	0.25
325	Ultra-broadband	120	1.0

Send for our NEW catalog with updated information on all General Microwave Products.

GENERAL MICROWAVE

5500 New Horizons Blvd., Amityville, NY 11701, Tel: 516-226-8900



MARQUARDT 

The complete family of Internationally Approved rocker, toggle, pushbutton, line voltage selector, micro and keyboard switches. Originators of the "SOFT LOOK".
Ratings from 6 A to 16A - 125/250 VAC.

**Marquardt Switches Inc.**

Cazenovia, NY 13035 315/655-8050 TWX 710-541-1530

Topflight Corp York PA	717-843-9901
Triangle Microwave Inc East Hanover NJ	201-884-1423
TRW Microwave Sunnyvale CA	408-732-0880
Triangle Electronics Div Carrollton TX	214-323-2200
Vari-L Co Inc Denver CO	303-371-1560
Wide Band Engineering Co Inc Phoenix AZ	602-254-1570

SWITCHES—POWER, SOLID STATE

C & K COMPONENTS INC NEWTON MA	617-964-6400
ADV PGS 441, 443, 447, 449, 451, 452, 453, 454, 455	
EAO SWITCH CORP MILFORD CT	203-877-4577
ADV PG 437	
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
JOHN FRANEK CO INC IRVINE CA	714-261-5377
MARQUARDT SWITCHES INC	
CAZENOVIA NY	315-655-8050
ADV PG 446	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Alpha Industries Inc Woburn MA	617-935-5150
Associates Electronics & Mfg Corp	
Upper Montclair NJ	201-783-7800
Cherry Electrical Products Corp Waukegan IL	312-662-9200
C & K Components Inc Newton MA	617-964-6400
Cooper Industries Arrow Hart Hartford CT	203-249-8471
Crydom Div Intl Rectifier Corp El Segundo CA	213-322-4987
Daico Industries Inc Compton CA	213-631-1143
Design Automation Inc Lexington MA	617-862-8998
Dialight Corp Brooklyn NY	718-497-7600
Dreels Switch Inc Waukegan IL	800-323-9605
EAO Switch Corp Milford CT	203-877-4577
Eaton Corp/MSC Products Costa Mesa CA	714-642-2427
Electric Switches Inc Los Angeles CA	213-660-1310
John Franek Co Inc Irvine CA	714-261-5377
General Power Systems Div ALS Corp	
Anaheim CA	714-956-9321
Gordos Corp Bloomfield NJ	201-743-6800
HEI Inc Victoria MN	612-443-2500
Hermetic Switch Inc Chickasha OK	405-224-4046
Histar Corp New York NY	212-679-2706
Holmes Co Carl E Los Angeles CA	213-256-2255
ITW Switches Chicago IL	312-282-4040
Lorch Electronics Corp Englewood NJ	201-569-8282
Lutron Electronics Co Inc Coopersburg PA	215-282-3800
M/A COM Microwave Circuits Inc	
Burlington MA	617-272-3000
Marquardt Switches Inc Cazenovia NY	315-655-8050
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
Novadyne Inc Fountain Valley CA	714-898-5370
Omron Electronics Inc Schaumburg IL	312-843-7900
Park Distributors Inc Bridgeport CT	203-366-7200
Parko Electronics Co Inc Irvine CA	714-660-8014
Payne Engineering Co Scott Depot WV	304-757-7353
Peerless Radio Corp Lynbrook NY	516-593-2121
Power Functions Engineering Inc Garland TX	214-278-0996
RLC Electronics Inc Mt Kisco NY	914-241-1334
Sager Hingham MA	617-749-6700
Struthers-Dunn Inc Pitman NJ	609-589-7500
Technology 80 Inc Minneapolis MN	612-542-9545
TEC Inc Tucson AZ	602-792-2100
Teleadyne Microelectronics Los Angeles CA	213-870-9831
Telefunken electronic Heilbronn West Germany	07 131 8821
Texas Instruments Optoelectronics Dallas TX	214-995-6611
Transamerica Delaval Inc Gems Sensors Div	
Plainville CT	203-677-1311
Wes-Garde Components Group Inc	
Hartford CT	203-525-6907

Automatic Switch Co Florham Park NJ	201-966-2000
Bristol Babcock Inc Waterbury CT	203-575-3000
Centroid Inc Syosset NY	516-822-4770
Columbus Electric Mfg Co Piney Flats TN	615-538-8191
Consolidated Controls Corp Bethel CT	203-743-6721
Copal Electronics Co Ltd Tokyo Japan	03-503-3777
Custom Control Sensors Inc Chatsworth CA	818-341-4610
Dietz Co Inc Henry G Long Island City NY	718-726-3347
Dumont Instrumentation Inc Commack NY	516-864-8500
Dynamic Controls Corp South Windsor CT	203-528-9971
Electric Switches Inc Los Angeles CA	213-660-1310
Electro National Corp Canton MS	601-859-5511
Enercorp Instruments Ltd Islington ON	416-231-5335
Furnas Electric Co Batavia IL	312-879-6000
Invalco Msmt & Control Combustion Engrg Inc	
Tulsa OK	918-834-5671
Kysor/Cadillac Cadillac MI	616-775-4681
Lista International Corp Holliston MA	617-429-1350
Litton Systems Inc Potomac MD	
Mt Vernon NY	914-664-7733
MKS Instruments Inc Burlington MA	617-272-9255
Pace Transducer Co Div CJ Instr Inc	
Tarzana CA	818-996-4131
Parker Pneutronics E Pepperell MA	617-433-2721
Peerless Radio Corp Lynbrook NY	516-593-2121
Precision Sensors Inc Milford CT	203-877-2795
Pres-Air-Trol Corp Mamaroneck NY	914-698-2026
Pressure Controls Inc Belleville NJ	201-751-5003
Reliance Electric Co Cleveland OH	800-245-4497
Robitech Inc Wilmington MA	617-657-6143
Technair Inc Arcadia CA	818-447-1187
Therm-O-Disc Inc Mansfield OH	419-756-5911
Wallace & Tiernan Div Pennwalt Corp	
Belleville NJ	201-759-8000
Westport Dev & Mfg Co Inc Orange CT	203-795-0871

SWITCHES—PRESSURE-ACTUATED, LIQUID

PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Automatic Switch Co Florham Park NJ	201-966-2000
Bindicator Port Huron MI	313-987-2700
Bristol Babcock Inc Waterbury CT	203-575-3000
Centroid Inc Syosset NY	516-822-4770
Consolidated Controls Corp Bethel CT	203-743-6721
Copal Electronics Co Ltd Tokyo Japan	03-503-3777
Custom Control Sensors Inc Chatsworth CA	818-341-4610
Dietz Co Inc Henry G Long Island City NY	718-726-3347
Electro National Corp Canton MS	601-859-5511
Enercorp Instruments Ltd Islington ON	416-231-5335
Faria Corp Thos G Uncasville CT	203-848-9271
Furnas Electric Co Batavia IL	312-879-6000
Hi-Staf Mfg Co Inc Lexington OH	419-884-1219
Invalco Msmt & Control Combustion Engrg Inc	
Tulsa OK	918-834-5671
Litton Systems Inc Potomac MD	
Mt Vernon NY	914-664-7733
Magnetoelectric Devices Inc Pittsfield MA	413-445-5608
Pace Transducer Co Div CJ Instr Inc	
Tarzana CA	818-996-4131
Parker Pneutronics E Pepperell MA	617-433-2721
Peerless Radio Corp Lynbrook NY	516-593-2121
Pelagic Electronics East Falmouth MA	617-540-1200
Precision Sensors Inc Milford CT	203-877-2795
Pres-Air-Trol Corp Mamaroneck NY	914-698-2026
Pressure Controls Inc Belleville NJ	201-751-5003
Robitech Inc Wilmington MA	617-657-6143
Singer Co Controls Div Schiller Pk IL	312-678-4150
Technair Inc Arcadia CA	818-447-1187
United Electric Controls Co Watertown MA	617-926-1000
Winland Electronics Inc Mankato MN	507-625-7231

SWITCHES—PRINTED CIRCUIT TERMINAL

ALCO ELECTRONIC PRODUCTS INC	
NORTH ANDOVER MA	617-685-4377
ADV PG 436	
C & K COMPONENTS INC NEWTON MA	617-964-6400
ADV PGS 441, 443, 447, 449, 451, 452, 453, 454, 455	
EAO SWITCH CORP MILFORD CT	203-877-4577
ADV PG 437	
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
GRAYHILL INC LA GRANGE IL	312-354-1040
ADV PG 439	
JANCO CORP BURBANK CA	818-846-1800
ADV PG 450	
MARQUARDT SWITCHES INC	
CAZENOVIA NY	315-655-8050
ADV PG 446	
MG ELECTRONICS HAUPPAUGE NY	516-582-3400
NKK SWITCHES OF AMERICA INC	
SCOTTS DALE AZ	602-991-0942
ADV PGS 433, 438, 450, 451, 453, 455	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
POWER DYNAMICS INC	
WEST ORANGE NJ	201-736-5722
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHIGMA INC ELK GROVE VILLAGE IL	800-323-0315
ADV PG 442	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TECH LABORATORIES INC	
PALISADES PARK NJ	201-944-2221
ADV PG 455	
UNIMAX SWITCH CORP	
WALLINGFORD CT	203-269-8701
ADV PGS 438, 452	
Advanced Input Devices Coeur d'Alene ID	208-765-8000
Alco Electronic Products Inc	
North Andover MA	617-685-4377
Alpha Industries Inc Woburn MA	617-935-5150
American Switch Corp Wakefield MA	617-246-1007
AMP Products Corp Southeastern PA	215-647-1000
Arcoelectric Corp Canoga Park CA	818-700-1933
Associates Electronics & Mfg Corp	
Upper Montclair NJ	201-783-7800
Bowmar Instrument Corp Commercial Prods Div	
Clearwater FL	813-576-2525
Burgess Switch Co Inc Northbrook IL	312-291-1760
Carlingswitch Inc W Hartford CT	203-233-5551
Centralab Inc A North American Phillips Co	
Fort Dodge IA	515-573-1300
Cherry Electrical Products Corp Waukegan IL	312-662-9200
Chicago Switch Inc Sub III Tool Wks	
Chicago IL	312-489-5500
C & K Components Inc Newton MA	617-964-6400
Cooper Industries Arrow Hart Hartford CT	203-249-8471
CTS Corp Elkhart IN	219-293-7511
CTS Electronics Corp Paso Robles CA	805-238-0350
C-W Industries Southampton PA	215-355-7080
Daven Components Grp Armetec Indus Inc	
Manchester NH	603-669-0940
Digitran/Computron Inc Pasadena CA	818-791-5600
Dreels Switch Inc Waukegan IL	800-323-9605
EAO Switch Corp Milford CT	203-877-4577
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
Eaton Corp/MSC Products Costa Mesa CA	714-642-2427
EECO Incorporated Santa Ana CA	714-835-6000
Electric Switches Inc Los Angeles CA	213-660-1310
Electro-Mech Components Inc	
So El Monte CA	818-442-7180
Elma Switch Corp Irvine CA	714-261-0160
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Grayhill Inc La Grange IL	312-354-1040
Histar Corp New York NY	212-679-2706
Industrial Electronic Hardware Corp	
New York NY	212-677-1881
ITT Shadow Inc Eden Prairie MN	612-934-4400
ITW Switches Chicago IL	312-282-4040
IVO Industries Inc Eatontown NJ	201-542-5151
JAE Electronics Inc Santa Ana CA	714-250-8770
Janco Corp Burbank CA	818-846-1800
JOLO Industries Inc Garden Grove CA	714-554-6840
Kulka Smith Inc Manasquan NJ	201-223-9400
Ledex Inc Electromechanical Prods	
Vandalia OH	513-898-3621
LVC Industries Inc Co-Ord Switch Div	
Freeport NY	516-868-1900
Marquardt Switches Inc Cazenovia NY	315-655-8050
Mechanical Enterprises Inc Herndon VA	703-435-9496
MG Electronics Hauppauge NY	516-582-3400
Microavonics Costa Mesa CA	714-957-6904
Micro Switch A Honeywell Div Freeport IL	815-235-6600
Midland-Ross Corp Electronic Connector Div	
Cambridge MA	617-491-5400
Mitsumi Electronics Corp Melville NY	516-752-7370
NKK Switches of America Inc Scottsdale AZ	602-991-0942
Oak Switch Systems Inc Crystal Lake IL	815-459-5000
Omron Electronics Inc Schaumburg IL	312-843-7900
Otto Controls Div Otto Engrg Inc	
Carpentersville IL	312-428-7171
Park Distributors Inc Bridgeport CT	203-366-7200
Parker Pneutronics E Pepperell MA	617-433-2721
Peerless Radio Corp Lynbrook NY	516-593-2121
Power Dynamics Inc West Orange NJ	201-736-5722
Risk Industries Inc George Kimball NE	308-235-4645
Sager Hingham MA	617-749-6700
Schurter Inc Petaluma CA	707-778-6311
Seacor Inc Westwood NJ	201-666-5800
Sheldahl Inc Northfield MN	507-663-8000
Shelly Assoc Inc Tustin CA	714-669-9850
Shigma Inc Elk Grove Village IL	800-323-0315
Shokai Far East Ltd Hartsdale NY	914-681-0700
SP America Inc San Jose CA	408-947-0311

SWITCHES—PRESSURE-ACTUATED, GAS

ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Automatic Equipment Corp Cincinnati OH	513-769-0044

Use the green pages
for local information.

Sparton Technology Inc Rio Rancho NM	505-892-5300
Specialties Mfg Co St Clair Shores MI	800-482-2828
Stacoswitch Inc Costa Mesa CA	714-549-3041
Standard Grigsby Inc Aurora IL	312-844-4300
Switchcraft Inc Chicago IL	312-792-2700
Tech Laboratories Inc Palisades Park NJ	201-944-2221
TEC Inc Tucson AZ	602-792-2230
Topflight Corp York PA	717-843-9901
Unimax Switch Corp Wallingford CT	203-269-8701
Universal Enterprises Inc Portland OR	503-644-8723
Vetronix Inc Lexington NE	308-324-4600
Wes-Garde Components Group Inc Hartford CT	203-525-6907
Winegard Co Burlington IA	319-753-0121

SWITCHES—PROGRAMMABLE

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ALCO ELECTRONIC PRODUCTS INC NORTH ANDOVER MA	617-685-4371
ADV PG 436	
AMP INCORPORATED HARRISBURG PA	717-564-0100
COLE INSTRUMENT CORP SANTA ANA CA	714-556-3100
ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
GENERAL MICROWAVE CORP AMITYVILLE NY	516-226-8900
ADV PG 445	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHIGMA INC ELK GROVE VILLAGE IL	800-323-0315
ADV PG 442	
TECH LABORATORIES INC PALISADES PARK NJ	201-944-2221
ADV PG 455	
A D Data Systems Inc Rochester NY	716-334-9649
Advanced Systems Concepts Inc Pasadena CA	213-793-8972
AEG Corporation Somerville NJ	201-722-9800
Aiken Advanced Sys Div Amstar Tech Prods Inc Alexandria VA	703-370-0900
Airflyte Electronics Co Bayonne NJ	201-436-2230
Alco Electronic Products Inc North Andover MA	617-685-4371
Alpha Industries Inc Woburn MA	617-935-5150
AMP Incorporated Harrisburg PA	717-564-0100
AMP Products Corp Southeastern PA	215-647-1000
Aries Electronics Inc Frenchtown NJ	201-996-6841
AstroSystems Inc Lake Success NY	516-328-1600
Autronics Corp Arcadia CA	818-445-5470
Bristol Saybrook Co Div Pratt-Read Corp Old Saybrook CT	203-388-3414
C & A Products Inc New Milford CT	203-355-3164
Cherry Electrical Products Corp Waukegan IL	312-862-9200
Cole Instrument Corp Santa Ana CA	714-556-3100
Crouzet Controls Inc Schaumburg IL	312-843-2200
Digital Products Inc Watertown MA	617-924-1680
Johnson & Co Inc W C Santa Rosa CA	707-527-5555
Eagle Signal Controls Div Wickes Mfg Co Austin TX	512-837-8300
EEOC Incorporated Santa Ana CA	714-835-6000
Eldec Corp Lynnwood WA	206-743-1313
Electric Switches Inc Los Angeles CA	213-660-1310
ElectroSpace Systems Inc Richardson TX	214-783-2004
Elma Switch Corp Irvine CA	714-261-0160
Entrelec Div Cogenel Inc Spring Valley NY	800-431-2308
Fifth Dimension Inc Trenton NJ	609-393-8350
General Microwave Corp Amityville NY	516-226-8900
Shiellmetti Inc Los Angeles CA	213-463-5111
Jordos Corp Bloomfield NJ	201-743-6800
Grin Corp Medford NJ	609-267-7950
Histar Corp New York NY	212-679-2706
H & L Instruments Burlingame CA	415-342-7850
Honeywell Inc IPC Div York PA	717-848-1151
Hughes Aircraft Co Microelectronic Sys Div Irvine CA	714-752-3800
ICS Electronics Corp San Jose CA	408-263-4844
Information Transfer Industrial Inc Holcomb NY	716-657-7074
Infotron Systems Corp Cherry Hill NJ	609-424-9400
TW Switches Chicago IL	312-282-4040
JAE Electronics Inc Santa Ana CA	714-250-8770
Korby Electronics Co Seattle WA	206-281-1300
Lake Shore Electric Corp Bedford OH	216-232-0200
Lorch Electronics Corp Englewood NJ	201-569-8282
LVC Industries Inc Co-Ord Switch Div Freeport NY	516-868-1900
Mantex Corp Oxford MI	313-628-9711
Matrix Systems Corp Calabasas CA	818-992-6776
Microavionics Costa Mesa CA	714-957-6904
Micro Switch A Honeywell Div Freeport IL	815-235-6600
Midland-Rand Corp Electronic Connector Div Cambridge MA	617-491-5400
NCR Comten Inc St Paul MN	612-638-7777
Oak Switch Systems Inc Crystal Lake IL	815-459-5000
Olektron Corp Webster MA	617-943-7440
Omron Electronics Inc Schaumburg IL	312-843-7900
Optimized Devices Inc Pleasantville NY	914-769-6100
Peerless Radio Corp Lynbrook NY	516-593-2121
Precision Mechanisms Corp Westbury NY	516-333-5955
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Sager Hingham MA	617-749-6700
Shigma Inc Elk Grove Village IL	800-323-0315
Shilconix Inc Santa Clara CA	408-988-8000
Sparton Technology Inc Rio Rancho NM	505-892-5300
Stacoswitch Inc Costa Mesa CA	714-549-3041
Standard Grigsby Inc Aurora IL	312-844-4300
Struthers-Dunn Inc Pitman NJ	609-589-7500
Tech Laboratories Inc Palisades Park NJ	201-944-2221
Technology 80 Inc Minneapolis MN	612-542-9545
Teledyne Microelectronics Los Angeles CA	213-870-9831
Tenor Co Inc New Berlin WI	414-782-3800
Topflight Corp York PA	717-843-9901
Tork Inc Mt Vernon NY	914-664-3542

United Electric Controls Co Watertown MA	617-926-1000
Weinschel Engineering Co Inc Gaithersburg MD	301-948-3434

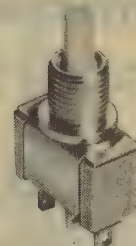
SWITCHES—PROXIMITY

ALCO ELECTRONIC PRODUCTS INC NORTH ANDOVER MA	617-685-4371
ADV PG 436	
ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
MARQUARDT SWITCHES INC CAZENOVIA NY	315-655-8050
ADV PG 446	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHIGMA INC ELK GROVE VILLAGE IL	800-323-0315
ADV PG 442	
Alco Electronic Products Inc North Andover MA	617-685-4371
Allen-Bradley Co Milwaukee WI	414-382-2000
ARO Corp Bryan OH	419-636-4242
Associates Electronics & Mfg Corp Upper Montclair NJ	201-783-7800
Automatic Timing & Controls Co King of Prussia PA	800-441-8245
Autotron Inc Danville IL	217-446-0650
Bindicator Port Huron MI	313-987-2700
Burgess Switch Co Inc Northbrook IL	312-291-1760
Computer Components Inc Pelham NY	914-738-1611
Crouzet Controls Inc Schaumburg IL	312-843-2200
Douglas Randall Div Pawcatuck CT	203-599-2075
Drexelbrook Engineering Co Horsham PA	215-674-1234
Eaton Corp/Cutler-Hammer Products Milwaukee WI	414-449-6000
Eldec Corp Lynnwood WA	206-743-1313
Electric Switches Inc Los Angeles CA	213-660-1310
Electro Corp Sarasota FL	813-355-8411
Electro National Corp Canton MS	601-859-5511
Endress & Hauser Inc Greenwood IN	317-535-7138
Engineering Design Denver CO	303-427-1955
GE Co Automation Controls Oper Charlottesville VA	804-978-5000
Gordon Products Inc Brookfield CT	203-775-4501
Gordos Corp Bloomfield NJ	201-743-6800
Hamlin Inc Lake Mills WI	414-648-2361
Hermetic Switch Inc Chickasha OK	405-224-4046
Honeywell Inc IPC Div York PA	717-848-1151
Hyde Park Electronics Inc Dayton OH	513-435-2121
Idec Izumi Corp Osaka Japan	81-6-2005530
Indikon Corp Cambridge MA	617-547-3604
InResCo Inc Point Pleasant NJ	201-892-5881
IVO Industries Inc Eatontown NJ	201-542-5151
Kessler-Elis Products Co Atlantic Highlands NJ	201-291-0500
Mag-Con Inc St Paul MN	612-633-8820
Marquardt Switches Inc Cazenovia NY	315-655-8050
Micro Switch A Honeywell Div Freeport IL	815-235-6600
Namco Controls Div Acme-Cleveland Corp Mentor OH	216-946-9900
Omron Electronics Inc Schaumburg IL	312-843-7900
Pace Transducer Co Div CJ Instr Inc Tarzana CA	818-996-4131
Peerless Radio Corp Lynbrook NY	516-593-2121
Photobell Co Inc Fairfield NJ	201-227-3613
Raymond Engineering Inc Middletown CT	203-632-1000
Rechner Electronics Industries Inc Niagara Falls NY	716-283-8744
Redington Counters Inc Windsor CT	203-688-6205
Reed Switch Developments Co Inc Tyler TX	214-593-1898
Risk Industries Inc George Kimball NE	308-235-4645
Sager Hingham MA	617-749-6700
Scientific Technology Inc Mtn View CA	415-965-0910
Sensor Corp Scottsdale PA	412-887-4080
Shigma Inc Elk Grove Village IL	800-323-0315
Skan-A-Matic Corp Elbridge NY	315-689-3961
Transducer Systems Inc Kulpville PA	215-256-4611
Veeder-Root Hartford CT	203-527-7201
Wabash Relay & Electronics Div Wabash IN	219-563-2191
Xerox Inc Portland OR	503-641-9525

SWITCHES—PUSHBUTTON

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ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
ALMO ELECTRONICS INC PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
ALPS ELECTRIC (USA) INC ROCKVILLE CENTRE NY	516-766-3636
ADV PG 111	
AROMAT CORP MOUNTAINSIDE NJ	201-232-4260
ADV PG 454	
C & K COMPONENTS INC NEWTON MA	617-964-6400
ADV PGS 441, 443, 447, 449, 451, 452, 453, 454, 455	
COLE INSTRUMENT CORP SANTA ANA CA	714-556-3100
EAO SWITCH CORP MILFORD CT	203-877-4577
ADV PG 437	
ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434, 435	
GRAYHILL INC LA GRANGE IL	312-354-1040
ADV PG 439	
JANCO CORP BURBANK CA	818-846-1800
ADV PG 450	
MARQUARDT SWITCHES INC CAZENOVIA NY	315-655-8050
ADV PG 446	

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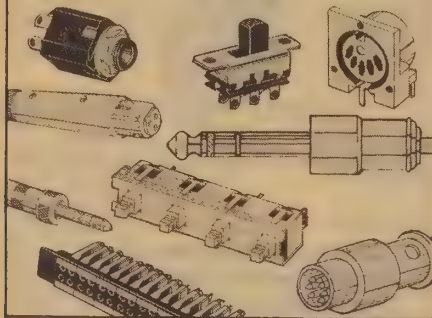
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ALMO ELECTRONICS INC PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
ALPS ELECTRIC (USA) INC ROCKVILLE CENTRE NY	516-766-3636
ADV PG 111	
AROMAT CORP MOUNTAINSIDE NJ	201-232-4260
ADV PG 454	
C & K COMPONENTS INC NEWTON MA	617-964-6400
ADV PGS 441,443,447,449,451,452,453,454,455	
COLE INSTRUMENT CORP SANTA ANA CA	714-556-3100
EAO SWITCH CORP MILFORD CT	203-877-4577
ADV PG 437	
ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434,435	
GRAYHILL INC LA GRANGE IL	312-354-1040
ADV PG 439	
JANCO CORP BURBANK CA	818-846-1800
ADV PG 450	
MARQUARDT SWITCHES INC CAZENOVIA NY	315-655-8050
ADV PG 446	
MG ELECTRONICS HAUPPAUGE NY	516-582-3400
MOUSER ELECTRONICS MANSFIELD TX	617-483-0165
NKK SWITCHES OF AMERICA INC SCOTTSDALE AZ	602-991-0942
ADV PGS 433,438,450,451,453,455	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHIGMA INC ELK GROVE VILLAGE IL	800-323-0315
ADV PG 442	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
UNIMAX SWITCH CORP WALLINGFORD CT	203-269-8701
ADV PGS 438,452	
WISE COMPONENTS INC GREENWICH CT	203-531-4880
ADV PG 448	
Acro Switch Warwick RI	401-738-4360
Advanced Input Devices Coeur d'Alene ID	208-765-8000
AEG Corporation Somerville NJ	201-722-9800
Alco Electronic Products Inc North Andover MA	617-685-4371
Allen-Bradley Co Milwaukee WI	414-382-2000
Almo Electronics Inc Philadelphia PA	215-698-4000
Alps Electric (USA) Inc Rockville Centre NY	516-766-3636
American Solenoid Co Inc Somerset NJ	201-560-1240

American Switch Corp Wakefield MA	617-246-1007
Arcoelectric Corp Canoga Park CA	818-700-1933
Ark-Les Corp Watertown MA	617-924-2330
Aromat Corp Mountainside NJ	201-232-4260
Automatic Switch Co Florham Park NJ	201-966-2000
Baco Controls Inc Cazenovia NY	315-655-8372
Bowmar Instrument Corp Commercial Prods Div Clearwater FL	813-576-2525
Brady Co W H Xymox Div Milwaukee WI	414-355-8300
Burgess Switch Co Inc Northbrook IL	312-291-1760
Capitol Switch Inc Danbury CT	203-744-3300
Carlingswitch Inc W Hartford CT	203-233-5551
Centralab Inc A North American Philips Co Fort Dodge IA	515-573-1300
Cherry Electrical Products Corp Waukegan IL	312-662-9200
Chicago Switch Inc Sub III Tool Wks Chicago IL	312-489-5500
C & K Components Inc Newton MA	617-964-6400
Coba Inc Plymouth MN	612-559-3772
Cole Instrument Corp Santa Ana CA	714-556-3100
Conductive Rubber Technology Santa Barbara CA	805-969-5805
Controlonics Corp Westford MA	617-692-3000
Control Products Inc East Hanover NJ	201-887-9400
Cooper Industries Arrow Hart Hartford CT	203-249-8471
Crouse-Hinds Co Syracuse NY	315-477-7000
Crouzet Controls Inc Schaumburg IL	312-843-2200
C-W Industries Southampton PA	215-355-7080
Dialight Corp Brooklyn NY	718-497-7600
Digitran/Computron Inc Pasadena CA	818-791-5600
Dreeds Switch Inc Waukegan IL	800-323-9605
EAO Switch Corp Milford CT	203-877-4577
Eaton Corp/Cutler-Hammer Products Milwaukee WI	414-449-6000
Eaton Corp/MSC Products Costa Mesa CA	714-642-2427
Electric Switches Inc Los Angeles CA	213-660-1310
Electro-Mech Components Inc So El Monte CA	818-442-7180
Elma Switch Corp Irvine CA	714-261-0160
Entelec Div Cogenel Inc Spring Valley NY	800-431-2308
Furnas Electric Co Batavia IL	312-879-6000
Gaynor Electric Co Inc Thomaston CT	203-283-4388
GE Co Automation Controls Oper Charlottesville VA	804-978-5000
Grayhill Inc La Grange IL	312-354-1040
Harvey Hubbell Inc Bridgeport CT	203-333-1181
Haydon Switch & Instrument Inc Waterbury CT	203-756-7441
Hirose Electric USA Inc Chatsworth CA	818-709-1247
Histar Corp New York NY	212-679-2706
Idec Izumi Corp Osaka Japan	81-6-2005530
IDEC Systems & Controls Corp Santa Clara CA	408-988-7500
IEE Industrial Electronic Engineers Inc Van Nuys CA	818-787-0311
Indak Mfg Co Northbrook IL	312-272-0343
International Resource Services Miami FL	305-884-2924
ITT Schadow Inc Eden Prairie MN	612-934-4400
ITW Switches Chicago IL	312-282-4040
JA Electronics Inc Santa Ana CA	714-250-8770
Jaico Products Jaldinger Mfg Co Chicago IL	312-421-1090
Janco Corp Burbank CA	818-846-1800
Korry Electronics Co Seattle WA	206-281-1300
Kulka Smith Inc Manasquan NJ	201-223-9400
Ledex Inc Electromechanical Prods Vandalia OH	513-898-3621
LeeCraft Mfg Co Inc Long Island City NY	718-392-8800
Littelfuse Inc Des Plaines IL	312-824-1188
Luminator Div Gulton Industries Plano TX	214-424-6511
Lutron Electronics Co Inc Coopersburg PA	215-282-3800
Marquardt Switches Inc Cazenovia NY	315-655-8050
McGill Mfg Co Inc Elec Div Valparaiso IN	219-465-2200
Mechanical Enterprises Inc Herndon VA	703-435-9496
MG Electronics Hauppauge NY	516-582-3400
Microelectronics Costa Mesa CA	714-957-6904
Micro Switch A Honeywell Div Freeport IL	815-235-6600
Molex Inc Lisle IL	312-969-4550
MOUSER Electronics Mansfield TX	617-483-0165
NKK Switches of America Inc Scottsdale AZ	602-991-0942
Oak Switch Systems Inc Crystal Lake IL	815-459-5000
Omron Electronics Inc Schaumburg IL	312-843-7900
Oslo Controls Inc Cheshire CT	203-272-2794
Otto Controls Div Otto Engrg Inc Carpentersville IL	312-428-7171
Panasonic Co Electronic Components Div Secaucus NJ	201-348-5200
Par Distributors Inc Bridgeport CT	203-366-7200
Peerless Radio Corp Lynbrook NY	516-593-2121
Philmore Mfg Co Inc Inwood NY	516-239-6161
Piher International Corp Mt Prospect IL	312-640-8300
Preh Electronics Industries Inc Niles IL	312-647-8338
Pres-Air-Trol Corp Mamaroneck NY	914-698-2026
Refac Electronics Corp Winnet CA	203-379-2731
Risk Industries Inc George Kimball NE	308-235-4645
Robot Industries Inc Dearborn MI	313-846-2623
Sager Hingham MA	617-749-6700
Seacor Inc Westwood NJ	201-666-5600
Secme Switch Div Sandberg Industries Irvine CA	714-261-0610
Shelly Assoc Inc Tustin CA	714-669-9850
Shigma Inc Elk Grove Village IL	800-323-0315
Shokai Far East Ltd Hartsdale NY	914-681-0700
SMK Electronics Corp USA Placentia CA	714-996-0960
SP America Inc San Jose CA	408-947-0311
Specialties Mfg Co St Clair Shores MI	800-482-2828
Staco Switch Inc Costa Mesa CA	714-549-3041
Standard Grigsby Inc Aurora IL	312-844-4300
Switchcraft Inc Chicago IL	312-792-2700
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Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Tower Mfg Corp Providence RI	401-467-7550
Unimax Switch Corp Wallingford CT	203-269-8701
U S Controls Corp New Berlin WI	414-782-3040
Universal Enterprises Inc Portland OR	503-644-8723
Vetronix Inc Lexington NE	308-324-4600
Ward Leonard Electric Co Mt Vernon NY	914-664-1000
Wes-Garde Components Group Inc Hartford CT	203-525-6907
Wilbrecht Electronics Inc St Paul MN	612-222-2791
Wise Components Inc Greenwich CT	203-531-4880

SWITCHES—REED

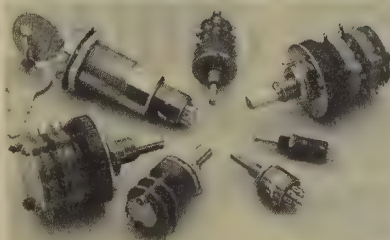
ALCO ELECTRONIC PRODUCTS INC NORTH ANDOVER MA	617-685-4371
ADV PG 436	
ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
CLARE DIV GENERAL INSTRUMENT CORP CHICAGO IL	312-262-7700
ELECTRIC SWITCHES INC LOS ANGELES CA	213-660-1310
ADV PGS 434,435	
FUJITSU COMPONENTS OF AMERICA INC SANTA CLARA CA	408-727-1700
ADV PG 395	
HASCO COMPONENTS INC BELLROSE VILLAGE NY	516-328-9299
ADV PG 392	
MARQUARDT SWITCHES INC CAZENOVIA NY	315-655-8050
ADV PG 446	
MOUSER ELECTRONICS MANSFIELD TX	617-483-0165
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
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TDK CORP TOKYO JAPAN	03-278-5111
A D Data Systems Inc Rochester NY	716-334-9600
Alco Electronic Products Inc North Andover MA	617-685-4371
Allen-Bradley Co Milwaukee WI	414-382-2000
Amperex Electronic Corp Hicksville Div Hicksville NY	516-931-6200
Clare Div General Instrument Corp Chicago IL	312-262-7700
Douglas Randall Div Pawcatuck CT	203-599-2070
Eaton Corp/Cutler-Hammer Products Milwaukee WI	414-449-6000
Electric Switches Inc Los Angeles CA	213-660-1310
Elec-Trol Inc Saugus CA	805-252-8333
Electro National Corp Canton MS	601-859-5511
Fujitsu Component of America Inc Lake Bluff IL	312-295-2611
Fujitsu Components of America Inc Santa Clara CA	408-727-1700
GC Electronics Div Household Intl Rockford IL	815-968-9660
Gordos Corp Bloomfield NJ	201-743-6800
Hamlin Inc Lake Mills WI	414-648-2360
Hasco Components Inc Bellrose Village NY	516-328-9299
Hermetic Switch Inc Chickasha OK	405-224-4040
Histar Corp New York NY	212-679-2706
InResCo Inc Point Pleasant NJ	201-892-5858
Kahl Scientific Instrument Corp El Cajon CA	619-444-2151
Marquardt Switches Inc Cazenovia NY	315-655-8050
Matrix Systems Corp Calabasas CA	818-992-6771
Maxi-Switch Co Minneapolis MN	612-755-7660
Mountain West Alarm Supply Co Phoenix AZ	602-263-8883
MOUSER Electronics Mansfield TX	617-483-0165
M-O Valve Co Ltd London England	01-603-3443
NEC America Inc Melville NY	516-753-7000
Omron Electronics Inc Schaumburg IL	312-843-7900
Peerless Radio Corp Lynbrook NY	516-593-2121
Philips Electronic Comps & Mats Div Eindhoven Netherlands	04079111
Risk Industries Inc George Kimball NE	308-235-4645
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
SMK Electronics Corp USA Placentia CA	714-996-0960
Standex Electronics Cincinnati OH	513-871-3777
TDK Corp Tokyo Japan	03-278-5111
Universal Relay Corp New York NY	212-925-6900
Vetronix Inc Lexington NE	308-324-4600
Wabash Electrical Components Group Huntington IN	219-356-8300
Wabash Relay & Electronics Div Wabash IN	219-563-2199

SWITCHES—ROCKER

AIRPAX CORP CAMBRIDGE DIV CAMBRIDGE MD	301-228-4600
ALCO ELECTRONIC PRODUCTS INC NORTH ANDOVER MA	617-685-4371
ADV PG 436	
ALMO ELECTRONICS INC PHILADELPHIA PA	215-698-4000
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ALPS ELECTRIC (USA) INC ROCKVILLE CENTRE NY	516-766-3636
AROMAT CORP MOUNTAINSIDE NJ	201-232-4260
ADV PG 454	
C & K COMPONENTS INC NEWTON MA	617-964-6400
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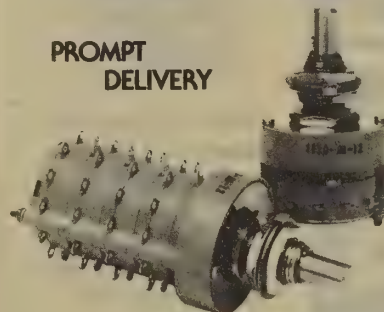
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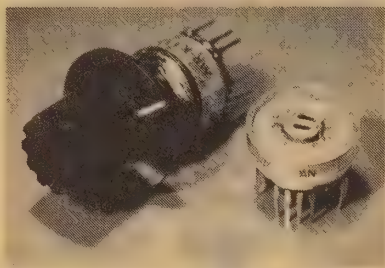
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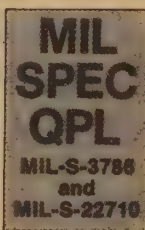
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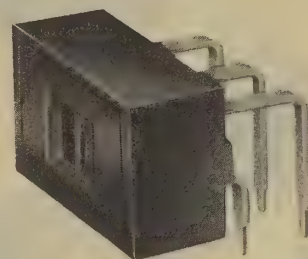
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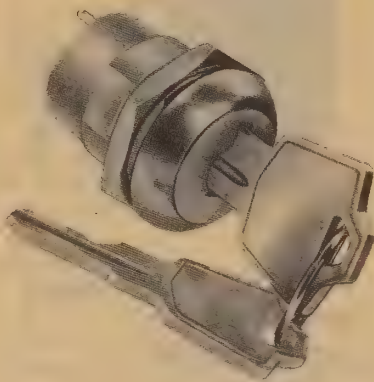
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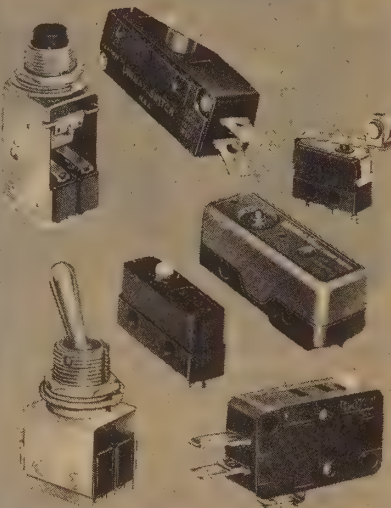
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Haydon Switch & Instrument Inc Waterbury CT.....	203-756-74
Histar Corp New York NY.....	212-679-27
IEE Industrial Electronic Engineers Inc Van Nuys CA.....	818-787-03
ITT Barton Instruments Co City of Industry CA.....	818-961-25
ITT Shadow Inc Eden Prairie MN.....	612-934-44
ITW Switches Chicago IL.....	312-282-40
Jalco Products Jaidinger Mfg Co Chicago IL.....	312-421-10
Jay-El Products Inc Gardena CA.....	312-323-71
K-B Denver Inc Frederick CO.....	303-833-35
Korby Electronics Co Seattle WA.....	206-281-13
Leecraft Mfg Co Inc Long Island City NY.....	718-392-88
Littelfuse Inc Des Plaines IL.....	312-824-11
Mantex Corp Oxford MI.....	313-628-97
Marquardt Switches Inc Cazenovia NY.....	315-655-80
McGill Mfg Co Inc Elec Div Valparaiso IN.....	219-465-22
Microavionics Costa Mesa CA.....	714-957-69
Micro Switch A Honeywell Div Freeport IL.....	815-235-66
Mitsumi Electronics Corp Melville NY.....	516-752-77
Mouser Electronics Mansfield TX.....	817-483-01
Namco Controls Div Acme-Cleveland Corp Mentor OH.....	216-946-99
Oak Switch Systems Inc Crystal Lake IL.....	815-459-50
Omron Electronics Inc Schaumburg IL.....	312-843-79
Otto Controls Div Otto Engrg Inc Carpentersville IL.....	312-428-71
Park Distributors Inc Bridgeport CT.....	203-366-72
Pass & Seymour Syracuse NY.....	315-468-62
Peerless Radio Corp Lynbrook NY.....	516-593-21
Potter & Brumfield Div AMF Inc Princeton IN.....	812-386-10
Power Dynamics Inc West Orange NJ.....	201-736-57
Preh Electronics Industries Inc Niles IL.....	312-647-83
Pres-Air-Trol Corp Mamaroneck NY.....	914-698-20
Ross Co Milton Southampton PA.....	215-355-02
Rowe Co L L Woburn MA.....	617-729-78
Sager Hingham MA.....	617-749-67
Secme Switch Div Sandberg Industries Irvine CA.....	714-261-06
Shokai Far East Ltd Hartsdale NY.....	914-681-07
Singer Co Controls Div Schiller Pk IL.....	312-678-41
SMK Electronics Corp USA Placentia CA.....	714-996-09
SP America Inc San Jose CA.....	408-947-03
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Square D Co Palatine IL.....	312-397-26
Stacoswitch Inc Costa Mesa CA.....	714-549-30
Switchcraft Inc Chicago IL.....	312-792-27
TEC Inc Tucson AZ.....	602-792-22
Telefunken electronic Heilbronn West Germany.....	07131 88
Texas Instruments Inc Control Prods Attleboro MA.....	617-699-32
Texas Instruments Inc Connector Systems Attleboro MA.....	617-699-38
Tower Mfg Corp Providence RI.....	401-467-75
Transcoil Inc Worcester PA.....	215-277-13
Unimax Switch Corp Wallingford CT.....	203-269-87
U S Controls Corp New Berlin WI.....	414-782-03
Universal Enterprises Inc Portland OR.....	503-644-87
Universal Relay Corp New York NY.....	212-925-69
Wes-Garde Components Group Inc Hartford CT.....	203-525-69
Westport Dev & Mfg Co Inc Orange CT.....	203-795-08
Workman Electronic Products Inc Sarasota FL.....	800-237-66

SWITCHES—SPEED-ACTUATED

MARQUARDT SWITCHES INC CAZENOVIA NY.....	315-655-805
ADV PG 446	
PEERLESS RADIO CORP LYNBROOK NY	516-593-212
ADV PGS Green Pages/Footstrips	
Electric Tachometer Corp Philadelphia PA.....	215-726-77
Electro Corp Sarasota FL.....	813-355-84
Electronic Counters & Controls Inc Mundelein IL.....	312-362-89
Histar Corp New York NY.....	212-679-27
Kessler-Ellis Products Co Atlantic Highlands NJ.....	201-291-05
Mag-Con Inc St Paul MN.....	612-633-88
Marquardt Switches Inc Cazenovia NY.....	315-655-80
Peerless Radio Corp Lynbrook NY.....	516-593-21
Photobell Co Inc Fairfield NJ.....	201-227-36
PPM Inc Cleveland OH.....	216-292-60

Speed Detectors Inc Bedford OH	216-232-4100
Sehmar Inc Arcadia CA	818-447-1187
Sorq Corp Bedford OH	216-232-1880
Transducer Systems Inc Kulpville PA	215-256-4611

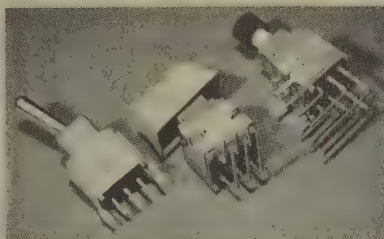
SWITCHES—STEPPING

SOLE INSTRUMENT CORP	
SANTA ANA CA	714-556-3100
ANCO CORP BURBANK CA	818-846-1800
ADV PG 450	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
ECH LABORATORIES INC	
PALISADES PARK NJ	201-944-2221
ADV PG 455	
Brans Instrument Corp Lansing MI	517-332-6405
Irlyte Electronics Co Bayonne NJ	201-436-2230
Irpx Corp Frederick Div Frederick MD	301-663-5141
Merace Corp Hackettstown NJ	201-852-1122
Associates Electronics & Mfg Corp	
Upper Montclair NJ	201-783-7800
Automatic Timing & Controls Co	
King of Prussia PA	800-441-8245
ole Instrument Corp Santa Ana CA	714-556-3100
ectrospace Systems Inc Richardson TX	214-783-2004
ectroswitch Weymouth MA	617-335-5200
nrelec Div Cogentel Inc Spring Valley NY	900-431-2308
urnas Electric Co Batavia IL	312-879-6000
hielmelt Inc Los Angeles CA	213-463-5111
h L Instruments Burlingame CA	415-342-7850
anco Corp Burbank CA	818-846-1800
essler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
edex Inc Electromechanical Prods	
Vandalia OH	513-898-3621
lak Switch Systems Inc Crystal Lake IL	815-459-5000
rrmon Electronics Inc Schaumburg IL	312-843-7900
peerless Radio Corp Lynbrook NY	516-593-2121
ech Laboratories Inc Palisades Park NJ	201-944-2221
chnology 80 Inc Minneapolis MN	612-542-9545
enor Co Inc New Berlin WI	414-782-3800
niversal Relay Corp New York NY	212-925-6900

SWITCHES—SUBMINIATURE

CO ELECTRONIC PRODUCTS INC	
NORTH ANDOVER MA	617-685-4371
ADV PG 436	
LMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
LPS ELECTRIC (USA) INC	
ROCKVILLE CENTRE NY	516-766-3636
ADV PG 111	
MP INCORPORATED HARRISBURG PA	717-564-0100
ROMAT CORP MOUNTAINSIDE NJ	201-232-4260
ADV PG 454	
& K COMPONENTS INC NEWTON MA	617-964-6400
ADV PGS 441,443,447,449,451,452,453,454,455	
OLE INSTRUMENT CORP	
SANTA ANA CA	714-556-3100
ADV PG 450	
AO SWITCH CORP MILFORD CT	203-877-4577
ADV PG 437	
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434,435	
RAYHILL INC LA GRANGE IL	312-354-1040
ADV PG 439	
ASCO COMPONENTS INC	
BELLROSE VILLAGE NY	516-328-9292
ADV PG 392	
ANCO CORP BURBANK CA	818-846-1800
ADV PG 450	
FOUSER ELECTRONICS MANSFIELD TX	817-483-0165
NK SWITCHES OF AMERICA INC	
SCOTTSDALE AZ	602-991-0942
ADV PGS 433,438,450,451,453,455	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
OWER DYNAMICS INC	
WEST ORANGE NJ	201-736-5722
AGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
HIGMA INC ELK GROVE VILLAGE IL	800-323-0315
ADV PG 442	
HOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
NIMAX SWITCH CORP	
WALLINGFORD CT	203-269-8701
ADV PGS 438,452	
cro Switch Warwick RI	401-738-4360
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irlyte Electronics Co Bayonne NJ	201-436-2230
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lmo Electronics Inc Philadelphia PA	215-698-4000
lps Electric (USA) Inc Rockville Centre NY	516-766-3636
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romat Corp Mountainside NJ	201-232-4260
ssociates Electronics & Mfg Corp	
Upper Montclair NJ	201-783-7800
ugal Inc Attleboro MA	617-222-2202
irgess Switch Co Inc Northbrook IL	312-291-1760
arling Switch Inc W Hartford CT	203-233-5551
entralab Inc A North American Philips Co	
Fort Dodge IA	515-573-1300
erry Electric Products Corp Waukegan IL	312-662-9200
nicago Switch Inc Sub Ill Tool Wks	
Chicago IL	312-489-5500
& K Components Inc Newton MA	617-964-6400
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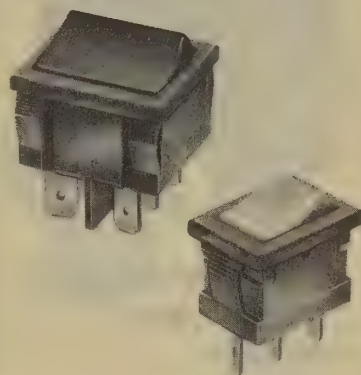
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Histar Corp New York NY	212-679-2706
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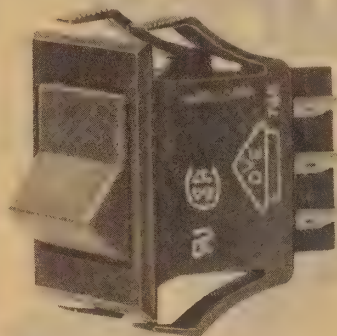
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Tower Mfg Corp Providence RI	401-467-7550
Transcoil Inc Worcester PA	215-277-1300
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Wes-Garde Components Group Inc Hartford CT	203-525-6907
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ADV PGS Green Pages/Footstrips	
Accurate Electronics Corp Elyria OH	216-365-1211
Ark-Les Corp Watertown MA	617-924-2330
Automatic Switch Co Florham Park NJ	201-966-2000
Burling Instrument Co Inc Chatham NJ	201-635-9481
Chatham Controls Corp Chatham NJ	201-635-8892
Control Products Inc East Hanover NJ	201-887-9400
Cox & Company Inc New York NY	212-674-4727
Custom Control Sensors Inc Chatsworth CA	818-341-4610
Dynamic Controls Corp South Windsor CT	203-528-9971
Eaton Corp/Cutler-Hammer Products Milwaukee WI	414-449-6000
Elmwood Sensors Inc Pawtucket RI	401-727-1300
Fenwal Inc Ashland MA	617-881-2000
Flow Technology Inc Phoenix AZ	602-437-1315
Histar Corp New York NY	212-679-2706
Hi-Stat Mfg Co Inc Lexington OH	419-884-1219
Jaico Products Jaidinger Mfg Co Chicago IL	312-421-1090
Keystone Carbon Co Thermistor Div St Marys PA	814-781-1591
Kysor/Cadillac Cadillac MI	616-775-4681
Midwest Components Inc Muskegon MI	616-777-2602
Namco Controls Div Acme-Cleveland Corp Mentor OH	216-946-9900
Peerless Radio Corp Lynbrook NY	516-593-2121
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ADV PG 436	
ALMOR CO INC WEYMOUTH MA	617-331-8400
C & K COMPONENTS INC NEWTON MA	617-964-6400
ADV PGS 441,443,447,449,451,452,453,454,455	
ELECTRIC SWITCHES INC	
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ADV PGS 434,435	
MEASUREMENT SYSTEMS INC	
NORWALK CT	203-838-5561
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
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ADV PG 442	
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ADV PG 455	
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ADV PGS 438,452	

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Cincinnati ElectroSystems Inc Loveland OH	513-831-4300
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Crouzet Controls Inc Schaumburg IL	312-843-2200
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ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434,435	
HASCO COMPONENTS INC	
BELLROSE VILLAGE NY	516-328-9200
ADV PG 392	
KAY ELEMETRICS CORP PINE BROOK NJ	201-227-2000
ADV PG 29	
MARQUARDT SWITCHES INC	
CAZENOVIA NY	315-655-8000
ADV PG 446	
MG ELECTRONICS HAUPPAUGE NY	516-582-3400
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
NKK SWITCHES OF AMERICA INC	
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ower Dynamics Inc West Orange NJ	201-736-5722
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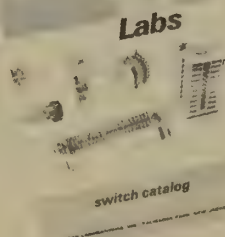
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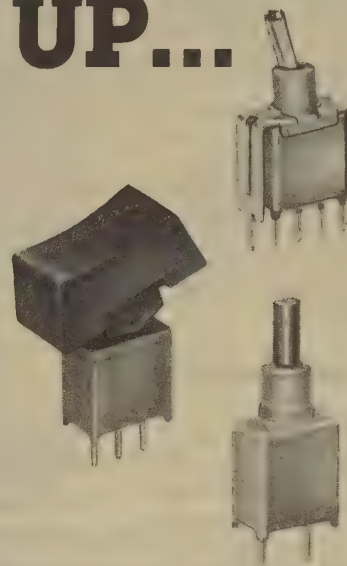
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Sterling Instrument Div Designatronics Inc
New Hyde Park NY..... 516-328-3300
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Vernaline Prods Div O B Test Group Inc
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Vernitech Div Vernitron Corp Deer Park NY..... 516-586-5100

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Orbit Instrument Corp Hauppauge NY..... 516-435-8000
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Synchronizers

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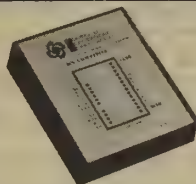
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DIGITAL:	10, 12, 14, 16, 18 Bit Binary
OUTPUT:	or
	3, 4, 5 Digit BCD, or Display
LINEAR DC:	±10V Representing 0° to ±180°
OUTPUT:	or
	0° to 360° (0 to +10V)
ACCURACY:	±.5°, ±1°, ±.05° or ±.01°
DIGITAL OR DC TO SYNCHRO/RESOLVER	
INPUT:	16, 14, 12, or 10 Bits Binary
DIGITAL:	
INPUT DC:	±10V or ±100V DC Angle or DC
OUTPUT:	Sine/Cosine
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	capable of driving 2VA, 5VA, or
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ALL UNITS	
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Synthesizers

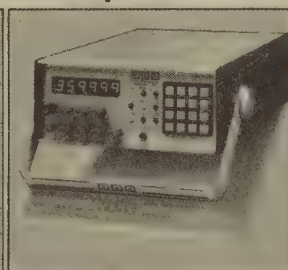
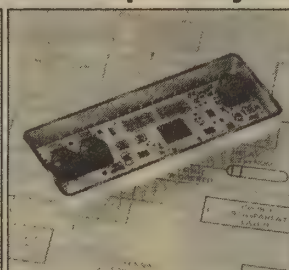
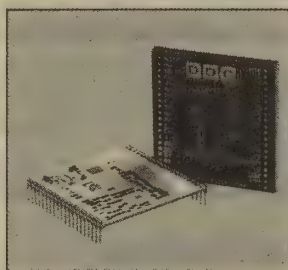
TABLES

See Benches & Stools; Dollies; Photomask

Cutting Tables

DDC SYNCHRO CONVERSION, A/D-D/A AND MIL-STD-1553 PRODUCTS.

A complete line of Converter and 1553 Products manufactured in quantity to Mil Specs.



Synchro Products:

SDC-19100 Low cost industrial synchro/resolver to digital converter

HSDC-8915 Monobrid® 14 bit synchro to digital converter

SDC-14520 Monobrid 16 bit S/D and R/D converters

IDC-35300 Series 12 bit Inductosyn™ to digital converter

SR-203 Synchro/resolver angle indicators

SIM-31200 Synchro/resolver simulator

BUS-68003 MIL-STD-1553 Tester

Write on company letterhead for:

- ☐ Full Catalog
- ☐ Synchro Conversion Handbook
- ☐ Shaft Encoding Application Note
- ☐ 1553 Handbook

* Monobrid (ILC Data Device Corp.) * Inductosyn (Farrand Industries, Inc.) * Selsyn (General Electric Co.)

Other Synchro Products:

- Synchro/resolver to linear DC converters
- Synchro/resolver to sine/cos DC converter

Related Products:

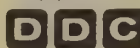
- Custom hybrids • Custom synchro interface and retransmission systems
- SEM packages qualified as JAN modules

Other Data Conversion Products:

- A/D and D/A converters • S/H and T/H amplifiers
- Custom data acquisition and processing systems

MIL-STD-1553 Data Bus Products:

- Transformers • Transceivers • Encoders/Decoders
- Complete RTU's • Transmitters • Receivers • Test Equipment



ILC DATA DEVICE CORPORATION

Dept. B.G., 105 Wilbur Place Bohemia, NY 11716
516-567-5600, TWX 510-228-7324

TABLETS

See Computer Input Tablets

TACHOMETERS—ELECTRONIC

AEG CORPORATION SOMERVILLE NJ	201-722-9800
DCI INC OLAHE KS	913-782-5672
HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
TEKMAT INC SOLANA BEACH CA	619-481-7177
ADV PGS 268,269	
Abbeon Cal Inc Santa Barbara CA	805-966-0810
AEG Corporation Somerville NJ	201-722-9800
AEMC Corp Boston MA	617-451-0227
Airpax Corp Ft Lauderdale Div	
Ft Lauderdale FL	305-587-1100
Amprobe Instrument Div Core Indus Inc	
Lynbrook NY	516-593-5600
Anasco Corp Wakefield MA	617-246-3300
Azonix Corp Burlington MA	617-273-5550
Boston Gear Quincy MA	617-328-3300
Computer Optical Products Inc	
Chatsworth CA	818-882-0424
C-Tek Inc Wakefield MA	617-246-1720
Datametrics Dresser Industries Inc	
Wilmington MA	617-658-5410
Datatron Labs Inc Sussex NJ	914-856-4313
D-B Developments Rome NY	315-339-1265
DCI Inc Olathe KS	913-782-5672
Dixon Inc Grand Junction CO	303-242-8863
Durant Products-Eaton Corp Watertown WI	414-261-4070
Durgin & Browne Inc S Burlington VT	802-863-6873
Dynapac Corp Gurnee IL	312-662-2666
Eastern Air Devices Motor Div Dover NH	603-742-3330
Electrac Inc Anaheim CA	714-879-6021
Electronic Tachometer Corp Philadelphia PA	215-726-7723
Electro Corp Sarasota FL	813-355-8411
Electro-Craft Corp Hopkins MN	612-931-2700
Electromatic Controls Corp	
Hoffman Estates IL	312-882-5757
Electromatic Equipment Co Inc	
Cedarhurst NY	516-295-4300
Electronic Counters & Controls Inc	
Mundelein IL	312-362-8910
Extach Instruments & Cont Div Waltham MA	617-890-7440
Faria Corp Thos G Uncasville CT	203-848-9271
Glax-Ban Div Mark IV Industries	
Tonawanda NY	716-694-5076
Heller Corp G K Floral Park NY	800-323-6674
Hunter Products Inc Bridgewater NJ	201-526-8440
Hyde Park Electronics Inc Dayton OH	513-435-2121
Ideale Electronics Corp Valley Stream NY	516-825-8955
Indikon Corp Cambridge MA	617-547-3604
Industrial Inventions Inc	
Monmouth Junction NJ	201-329-6000
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
LFE Corp Instruments Div Clinton MA	617-835-1000
Mag-Con Inc St Paul MN	612-633-8820
M-C Products Scottsdale AZ	602-998-9577
NES Inc Carpentersville IL	312-426-5900
Newport Electronics Inc Santa Ana CA	714-540-4914
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953
North Hills Electronics Inc Glen Cove NY	516-671-5700
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Parko Electronics Co Inc Irvine CA	714-660-8014
Phasotron Instrument & Elect Co Azusa CA	818-969-6801
Pioneer Electric & Research Corp	
Forest Park IL	312-771-8242
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
PPM Inc Cleveland OH	216-292-6006
Red Lion Controls York PA	717-667-1111
Richard Lee Co New Providence NJ	201-276-0710
Scanning Devices Inc Waltham MA	617-891-8991
Selco Products Co Buena Park CA	714-921-6913
Sensor Corp Scottsdale PA	412-687-4080
Sequential Information Systems Inc	
Elmsford NY	914-592-5930
Simpson Electric Co Elgin IL	312-697-2260
Solid State Electronics Corp Northridge CA	818-993-8257
Spectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA	619-268-7100
Sticht Co Inc Herman H New York NY	212-732-8163
Stock Drive Products Inc Div Designatronics	
New Hyde Park NY	516-328-0200
Texmate Inc Solana Beach CA	619-481-7177
Veeder-Root Hartford CT	203-527-7201
Westberg Mfg Inc Sonoma CA	707-938-2121
West Coast Research Corp Los Angeles CA	213-478-8833
Yokogawa Corp Of America Shenandoah GA	404-253-7000

TACHOMETERS—GENERATOR TYPE

AEG CORPORATION SOMERVILLE NJ	201-722-9800
GEORATOR CORP MANASSAS VA	703-368-2101
AEG Corporation Somerville NJ	201-722-9800
American Electronics Inc Fullerton CA	714-871-3020
Avtron Mfg Inc Cleveland OH	216-641-8310
Barber-Colman Co Motor Div Loves Park IL	815-968-0660
Carter Motor Co Chicago IL	312-588-7700
Clifton Precision Litton Systems Inc	
Clifton Hts PA	215-622-1000
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Dixon Inc Grand Junction CO	303-242-8863
Dynetic Systems Corp Elk River MN	612-441-4300
Eastern Air Devices Motor Div Dover NH	603-742-3330
EG & G Torque Systems Watertown MA	617-924-6000

E I L Instruments Inc Sparks MD	301-771-4800
Eitel Mfg Inc Laguna Beach CA	714-494-2012
Electric Indicator Co Inc Norwalk CT	203-847-5861
Electric Tachometer Corp Philadelphia PA	215-726-7723
Electro-Craft Corp Hopkins MN	612-931-2700
Electromatic Equipment Co Inc	
Cedarhurst NY	516-295-4300
Electro-Pacific Inc Goleta CA	805-964-4878
Faria Corp Thos G Uncasville CT	203-848-9271
Georator Corp Manassas VA	703-368-2101
Heller Corp G K Floral Park NY	800-323-6674
Hewlett-Packard Palo Alto CA	415-857-8000
Hyde Park Electronics Inc Dayton OH	513-435-2121
Ideale Electronics Corp Valley Stream NY	516-825-8955
Industrial Drives, Kollmorgen Radford VA	703-639-2495
Inland Motor Specialty Prods Div-Kollmorgen Corp	
Radford VA	703-639-9045
Magnetic Technology Div Vernitron Corp	
Canoga Park CA	213-887-7700
Micro Mo Electronics Inc St Petersburg FL	813-822-2529
MPC Products Corp Skokie IL	312-673-8300
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
PMI Motion Technologies Commack NY	516-864-1000
Portescap U S Micromotor Div Worcester PA	215-277-1300
Sequential Information Systems Inc	
Elmsford NY	914-592-5930
Servo-Tek Products Co Hawthorne NJ	201-427-3100
Sierracin/Magnedyn Carlsbad CA	619-438-3321
Singer Co Kearfott Div Little Falls NJ	201-785-6000
Sticht Co Inc Herman H New York NY	212-732-8163
Strandberg Engineering Labs Inc	
Greensboro NC	919-274-3775
Sycon-Weston Div Sycon Corp Marion OH	614-382-5771
Transcoil Inc Worcester PA	215-277-1300
Triplet Corp/A Penril Div Bluffton OH	419-358-5015
TRW Motor Div Dayton OH	513-228-3171
Vernitron Div Vernitron Corp Deer Park NY	516-586-5100
Westberg Mfg Inc Sonoma CA	707-938-2121
Yokogawa Corp Of America Shenandoah GA	404-253-7000

TACTICAL NAVIGATION SYSTEMS

(INCL. TACAN)

See Aircraft Guidance & Navigation Systems

TANKS—POLYETHYLENE

ENVIROMARINE SYSTEMS INC	
LAUREL MD	301-598-8833
Cu-Tech Inc Hatfield PA	215-822-8900
Daniels Inc C R Ellicott City MD	301-461-2100
Enviromarine Systems Inc Laurel MD	301-598-8833
Etchomatic Inc Waltham MA	617-893-2020
H B S Equipment Corp Los Angeles CA	213-726-3033
Nalgene Industrial Dept Nalge Co	
Rochester NY	716-586-8800
NRC Inc Newton MA	617-969-7690
U S Plastic Corp Lima OH	419-228-2242

TANTALUM

See Metals; Wire—Bare

TAPE EQUIPMENT

See Magnetic Tape Listings; Converters—Tape;
Memories; Paper Tape; Controls—Machine Tool

TAPES—CONTACT

Heraeus-Volkert Inc Queens Village NY	718-464-8400
Keene Corp Laminates Div	
East Providence RI	401-434-2340
Lamar Corp Clifton NJ	201-772-6262
Nitto Denko America Inc Port Washington NY	516-484-9700

TAPES—GLASS REINFORCED

Acme Div Allied Prods Corp New Haven CT	203-562-2171
Auburn Mfg Co Middletown CT	203-346-6677
Chase & Sons Inc Randolph MA	617-963-2600
CHR Industries Inc New Haven CT	203-777-3631
DeWal Industries Inc Saundertown RI	401-789-9736
Dixon Industries Corp Bristol RI	401-253-2000
Essex Group/IWI Ft Wayne IN	219-461-4000
Hexcel Corp Dublin CA	415-828-4200
Ideal Tape Inc Div Chelsea Industries	
Lowell MA	617-458-6833
Kole Industries Inc Miami FL	305-633-2556
Lamar Corp Clifton NJ	201-772-6262
Moxness Products Inc Racine WI	414-554-5050
Nitto Denko America Inc Port Washington NY	516-484-9700
Norton Co Worcester MA	617-853-1000
Norton Performance Plastics Wayne NJ	201-696-4700
United Mineral & Chemical Corp	
New York NY	212-966-4330

TAPES, INSULATING—HEAT SEALING
(NOT SHRINKING)

Chase & Sons Inc Randolph MA	617-963-2600
Chemical Fabrics Corp Merrimack NH	603-424-9000
CHR Industries Inc New Haven CT	203-777-3631
Dixon Industries Corp Bristol RI	401-253-2000

Keene Corp Laminates Div	
East Providence RI	401-434-2340
Lamar Corp Clifton NJ	201-772-6262
Nitto Denko America Inc Port Washington NY	516-484-9700
Norton Performance Plastics Wayne NJ	201-696-4700
Republic Packaging Corp Chicago IL	312-233-6531
Sheldahl Inc Northfield MN	507-663-8000
Tapecon Inc Rochester NY	716-821-8400
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
United Mineral & Chemical Corp	
New York NY	212-966-4330
Vertex Electronics Inc Farmingdale NY	516-293-9800

TAPES, INSULATING—HEAT
SHRINKING

Acme Div Allied Prods Corp New Haven CT	203-562-2171
AMP Products Corp Southeastern PA	215-647-1000
Electronized Chemicals Co Wilmington MA	617-857-8000
Essex Group/IWI Ft Wayne IN	219-461-4000
Keene Corp Laminates Div	
East Providence RI	401-434-2340
Lamar Corp Clifton NJ	201-772-6262
Nitto Denko America Inc Port Washington NY	516-484-9700
Norton Co Worcester MA	617-853-1000
Russell Industries Inc Oceanside NY	516-536-5000
SPC Technology Bensenville IL	312-766-6700
Topflight Corp York PA	717-843-9900
Vertex Electronics Inc Farmingdale NY	516-293-9800
Zippertubing Co Los Angeles CA	213-321-3900

TAPES, INSULATING—HIGH
TEMPERATURE

Acme Div Allied Prods Corp New Haven CT	203-562-2171
Auburn Mfg Co Middletown CT	203-346-6677
Bentley-Harris Mfg Co Lionville PA	215-963-2600
Chase & Sons Inc Randolph MA	617-963-2600
Chemical Fabrics Corp Merrimack NH	603-424-9000
CHR Industries Inc New Haven CT	203-777-3631
DeWal Industries Inc Saundertown RI	401-789-9736
Dixon Industries Corp Bristol RI	401-253-2000
Essex Group/IWI Ft Wayne IN	219-461-4000
Ideal Tape Inc Div Chelsea Industries	
Lowell MA	617-458-6833
Keene Corp Laminates Div	
East Providence RI	401-434-2340
Lamar Corp Clifton NJ	201-772-6262
Markel Corp Norristown PA	215-272-8900
Moxness Products Inc Racine WI	414-554-5050
Natvac Co Div High Voltage Eng Clayton NC	919-553-4100
Nitto Denko America Inc Port Washington NY	516-484-9700
Norton Co Worcester MA	617-853-1000
Norton Performance Plastics Wayne NJ	201-696-4700
Republic Packaging Corp Chicago IL	312-233-6531
Sheldahl Inc Northfield MN	507-663-8000
Sohio Engineered Materials Co	
Niagara Falls NY	716-278-2000
Tapecon Inc Rochester NY	716-821-8400
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
T & F Div CHR Industries Inc	
Rolling Meadows IL	312-392-8000
Topflight Corp York PA	717-843-9900
U S Plastic Corp Lima OH	419-228-2242
Zippertubing Co Los Angeles CA	213-321-3900

TAPES, INSULATING—PRESSURE
SENSITIVE

Acme Div Allied Prods Corp New Haven CT	203-562-2171
Auburn Mfg Co Middletown CT	203-346-6677
Chase & Sons Inc Randolph MA	617-963-2600
Chemical Fabrics Corp Merrimack NH	603-424-9000
CHR Industries Inc New Haven CT	203-777-3631
DeWal Industries Inc Saundertown RI	401-789-9736
Essex Group/IWI Ft Wayne IN	219-461-4000
Ideal Tape Inc Div Chelsea Industries	
Lowell MA	617-458-6833
Keene Corp Laminates Div	
East Providence RI	401-434-2340
Lamar Corp Clifton NJ	201-772-6262
Light Fabrications Inc Rochester NY	716-235-6700
Nitto Denko America Inc Port Washington NY	516-484-9700
Norton Co Worcester MA	617-853-1000
Norton Performance Plastics Wayne NJ	201-696-4700
Republic Packaging Corp Chicago IL	312-233-6531
Staff Gasket Mfg Corp New York NY	212-675-4000
Tapecon Inc Rochester NY	716-821-8400
Topflight Corp York PA	717-843-9900
United Mineral & Chemical Corp	
New York NY	212-966-4330

TAPES—LACING

See Cords—Lacing

TAPES—MAGNETIC

See Magnetic Tapes

TAPES—MICA

See Mica Tapes

TAPES—NONINSULATING, PRESSURE SENSITIVE

Adhesives Research Inc Glen Rock PA.....	717-235-7979
Armco Middletown OH.....	800-231-3748
Loistich Div Textron Inc East Greenwich RI.....	401-884-2500
Arady Co W H Industrial Prods Div.....	
Milwaukee WI.....	414-351-6630
Janrad-Hanovia Inc Newark NJ.....	201-589-4300
Phase & Sons Inc Randolph MA.....	617-963-2600
Chemical Fabrics Corp Merrimack NH.....	603-424-9000
Thomerics Inc Woburn MA.....	617-935-4850
Ssex Group / IWI Ft Wayne IN.....	219-461-4000
Thomatic Inc Waltham MA.....	617-893-2020
Teal Tape Inc Div Chelsea Industries Lowell MA.....	617-458-6833
Gene Corp Laminates Div.....	
East Providence RI.....	401-434-2340
Smart Corp Clifton NJ.....	201-772-6262
Laminated Fabricators San Bruno CA.....	415-583-5092
Light Fabrications Inc Rochester NY.....	716-235-6310
Tarkem Corp Keene NH.....	603-352-1130
Technical Rubber Products Corp Warwick NY.....	914-986-2271
Ulto Denko America Inc Port Washington NY.....	516-484-9700
Anduit Corp Tinley Park IL.....	312-532-1800
eton Name Plate Corp New Haven CT.....	203-488-0085
apecon Inc Rochester NY.....	716-621-8400
& F Div CHR Industries Inc Rolling Meadows IL.....	312-392-8090
Thomas & Betts Electrical Group Raritan NJ.....	201-685-1600
Opflight Corp York PA.....	717-843-9901
nted Mineral & Chemical Corp New York NY.....	212-966-4330

TAPES—PAPER

See Paper Tapes

TAPES—PRINTED OR COLOR CODED (EXCEPT PAPER TAPES)

Arady Co W H Industrial Prods Div.....	
Milwaukee WI.....	414-351-6630
Phase & Sons Inc Randolph MA.....	617-963-2600
Chemical Fabrics Corp Merrimack NH.....	603-424-9000
Gene Corp Laminates Div.....	
East Providence RI.....	401-434-2340
Smart Corp Clifton NJ.....	201-772-6262
Tarkem Corp Keene NH.....	603-352-1130
Ulto Denko America Inc Port Washington NY.....	516-484-9700
Anduit Corp Tinley Park IL.....	312-532-1800
Witt & Sons Inc Hartford CT.....	203-522-1181
apecon Inc Rochester NY.....	716-621-8400
Thomas & Betts Electrical Group Raritan NJ.....	201-685-1600
Opflight Corp York PA.....	717-843-9901
ppertubing Co Los Angeles CA.....	213-321-3901

TAPES—SHIELDING

See Shielding

TAPES—TEMPERATURE INDICATING

See Temperature Indicating Tapes

TAPES, COAXIAL CABLE

See Connectors, Coaxial Cable—Taps

TEACHING MACHINES (PROGRAMMED LEARNING)

Audiolectronics Corp North Hollywood CA.....	818-765-2645
Digital Equipment Corp Maynard MA.....	617-897-5111
I & L Instruments Inc New Haven CT.....	203-624-3103
azeltine Corp Commack NY.....	516-462-5100
okok Electrical Instrument Co Cleveland OH.....	216-541-8060
ogical Devices Inc Ft Lauderdale FL.....	305-974-0975
hi Technologies Inc Oklahoma City OK.....	405-521-9000
rah Electronics Industries Inc Niles IL.....	312-647-8338
L Electronics Inc Warrington PA.....	215-343-5075
electro Systems Corp Corona NY.....	212-651-8900
lex Communications Inc Minneapolis MN.....	612-884-4051

TEES—COAXIAL

LUMINUM DESIGN CORP BROOKFIELD IL.....	312-387-3100
INCORD ELECTRONICS CORP NEW YORK NY.....	212-777-6571
Jams-Russell Co Inc Anzac Div Burlington MA.....	617-273-3333
pha Industries Inc Woburn MA.....	617-935-5150
uminum Design Corp Brookfield IL.....	312-387-3100
ncord Electronics Corp New York NY.....	212-777-6571
amond Antenna & Microwave Corp Winchester MA.....	617-729-5500
awlett-Packard Palo Alto CA.....	415-857-8000
DI Electronics Inc Whippany NJ.....	201-887-8100
ngs Electronics Co Inc Tuckahoe NY.....	914-793-5000
/A COM Omni Spectra Inc Merrimack NH.....	603-424-4111
aury Microwave Corp Cucamonga CA.....	714-987-4715
nduit Corp Tinley Park IL.....	312-532-1800
telectro Corp Trumbull CT.....	203-372-4118
tronix Inc Beaverton OR.....	800-547-6711

For addresses, phones & sales offices, see green pages

Tru-Connector Corp Peabody MA.....	617-532-0775
Victor Microwave Inc Wakefield MA.....	617-245-4472
Wide Band Engineering Co Inc Phoenix AZ.....	602-254-1570

TEES—WAVEGUIDE

See Microwave Hybrid Junctions & Hybrid Tees;
Waveguide Assemblies

TELEGRAPH—TONE

See Communications Systems—Tone Telegraph

TELEMETRY SUBSYSTEMS

See Communications Equipment Reference List

TELEMETRY SYSTEMS

See Communications Systems

TELEPHONE COUPLERS

See Couplers—Acoustic

TELEPHONE RECORDERS

See Recorders

TELEPHONE REPEATERS

See Repeaters

TELEPHONES

CORD ELECTRONICS INC WESTBURY NY.....	516-935-3640
Abilities Inc Albertson NY.....	516-317-5400
Acousonic Systems Corp New Hyde Park NY.....	516-328-3300
Adax Inc Norcross GA.....	404-662-1504
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Audiosears Corp Stamford NY.....	607-652-7305
Controlronics Corp Westford MA.....	617-692-3000
Cord Electronics Inc Westbury NY.....	516-935-3640
Fanon Products Fanon Courier Corp Mission Hills CA.....	818-365-2531
Floyd Bell Associates Inc Columbus OH.....	614-488-3193
Gai-Tronics Corp Reading PA.....	215-777-1374
NEC America Inc Melville NY.....	516-753-7000
NPC Electronics New Brighton MN.....	612-633-4591
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Soundolier Div Amer Trading Prod Corp St Louis MO.....	314-962-9870
Systems Technology Assoc Washington DC.....	703-471-6000
Zoom Telephonics Boston MA.....	617-423-1072

TELEPRINTER & TELETYPEWRITER NETWORKS

See Communications Systems

TELEPRINTERS (TAPE)

American Computer Group Inc Boston MA.....	617-437-1100
ComData Corp Morton Grove IL.....	312-470-9600
Genicom Corp Waynesboro VA.....	703-949-1000
Practical Automation Inc Shelton CT.....	203-929-5381
TTS (Telecom Terminal Sys) Inglewood CA.....	213-641-8111

TELETYPEWRITER EQUIPMENT

A C D Corp Dayton OH.....	513-222-2600
American Computer Group Inc Boston MA.....	617-437-1100
AT & T Teletype Corp Skokie IL.....	312-982-2000
C & L Terminals Inc Portland OR.....	503-231-0772
ComData Corp Morton Grove IL.....	312-470-9600
DI/An Controls Inc Boston MA.....	617-288-7700
Digital Equipment Corp Maynard MA.....	617-897-5111
Enterprise Systems Corp Dover NH.....	603-742-7363
Genicom Corp Waynesboro VA.....	703-949-1000
HAL Communications Corp Urbana IL.....	217-367-7373
RCA Service Co-Automated Business Commun Svcs Cherry Hill NJ.....	609-338-4343
Robot Research Inc San Diego CA.....	619-279-9430
Teletype Corp Skokie IL.....	312-982-2000
TTS (Telecom Terminal Sys) Inglewood CA.....	213-641-8111
Vector Associates Inc Yaphank NY.....	516-924-0100

TELEVISION

See TV Listings

TELLURIDES

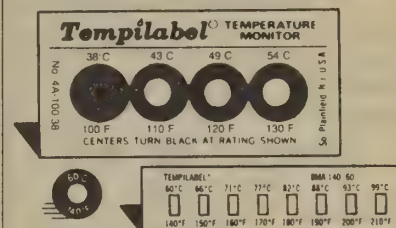
See Semiconductors

TEMPERATURE CONTROLS

See Controls—Temperature

How to put a low cost temperature gauge on everything.

WRITE OR CALL FOR SAMPLE



LOW-COST TEMPILABEL® TEMPERATURE MONITOR.

Label's center spot turns black when surface to which it is affixed reaches specified temperature. Single- or multi-spot labels with pre-determined increment of ratings: 100°F (33°C) to 600°F (316°C). 1% accuracy guaranteed. 1 thru 8 ratings on each monitor with various increments. Self-adhesive, removable.

Tempil

Tempil Division, Big Three Industries, Inc.
2901 Hamilton Blvd., South Plainfield, NJ 07080
Phone: (201) 757-8300 Telex: 138662

TEMPERATURE INDICATING CRAYONS

OMEGA ENGINEERING INC STAMFORD CT.....	203-359-1660
ADV PG Gatefold	
TEMPIL DIV BIG THREE INDUSTRIES INC SOUTH PLAINFIELD NJ.....	201-757-8300
ADV PG 459	
Assemblyonics Inc Brentwood NY.....	516-231-4440
Markal Co Chicago IL.....	312-826-1700
Marlin Mfg Corp Cleveland OH.....	216-941-6200
Omega Engineering Inc Stamford CT.....	203-359-1660
Solder Absorbing Technology Springfield MA.....	413-788-6191
Teletemp Corp Fullerton CA.....	714-879-2901
Tempil Div Big Three Industries Inc South Plainfield NJ.....	201-757-8300

TEMPERATURE INDICATING LABELS

OMEGA ENGINEERING INC STAMFORD CT.....	203-359-1660
ADV PG Gatefold	
TEMPIL DIV BIG THREE INDUSTRIES INC SOUTH PLAINFIELD NJ.....	201-757-8300
ADV PG 459	
Commonwealth Engineering Montreal PQ.....	514-744-1004
Everest Interscience Inc Tustin GA.....	714-992-4461
Markal Co Chicago IL.....	312-826-1700
Omega Engineering Inc Stamford CT.....	203-359-1660
Tempil Div Big Three Industries Inc South Plainfield NJ.....	201-757-8300
Wahl Instruments Inc Culver City CA.....	213-641-6931

TEMPERATURE INDICATING PAINTS

OMEGA ENGINEERING INC STAMFORD CT.....	203-359-1660
ADV PG Gatefold	
TEMPIL DIV BIG THREE INDUSTRIES INC SOUTH PLAINFIELD NJ.....	201-757-8300
ADV PG 459	
Assemblyonics Inc Brentwood NY.....	516-231-4440
Echelon Industries Inc Walnut CA.....	714-594-1891
Markal Co Chicago IL.....	312-826-1700
Marlin Mfg Corp Cleveland OH.....	216-941-6200
Omega Engineering Inc Stamford CT.....	203-359-1660
Solder Absorbing Technology Springfield MA.....	413-788-6191
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General Digital Industries Inc Huntsville AL.....	205-837-8305
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Honeywell Inc IPC Div York PA.....	717-848-1151
Intecolor Corp Norcross GA.....	404-449-5961
Interstate Electronics Corp Anaheim CA.....	714-758-0500
Psitech Fountain Valley CA.....	714-964-7818
Simco/Ramic Corp Medford OR.....	503-776-9800
Tejas Controls Inc Houston TX.....	713-956-4800
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ECO Instruments Div Sea Data Corp Newton MA.....	617-964-8360
HMW Enterprises Eters PA.....	717-938-4691
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Enterprise Systems Corp Dover NH.....	603-742-7363
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Honeywell Information Systems Waltham MA.....	617-895-6000
Interface Technology St Louis MO.....	314-426-6880
Nixdorf Computer Corp No Reading MA.....	617-890-3600
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Art Wire/Doduco Parsippany NJ.....	201-428-4880
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Digital Equipment Corp Maynard MA.....	617-897-5111

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McVen Electronics Lab Red Bank NJ.....	201-741-1716
Mykroy/Mycalex Clifton NJ.....	201-779-8866
Oxley Developments Co Ltd Ulverston Cumbria England.....	0229-52621
Schott Electronics Ansonia CT.....	203-736-2677
Sealectro Corp Trumbull CT.....	203-372-4118
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MOUSER ELECTRONICS MANSFIELD TX..... 817-483-0165	
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Acme Model Engineering Co Ridgefield NJ.....	201-943-7650
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Almo Electronics Inc Philadelphia PA.....	215-698-4000
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AMP Products Corp Southeastern PA.....	215-647-1000
Ark-Les Corp Watertown MA.....	617-924-2330
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Autosplice Inc Woodside NY.....	718-429-0500
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DuPont Connector Systems Camp Hill PA.....	717-975-2000
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Keystone Electronics Corp New York NY.....	212-475-4600
Kulka Smith Inc Manassas NJ.....	201-223-9400
Magnum Electric Erie MI.....	313-848-2555
Malco Div Microdot Inc Montgomeryville PA.....	215-659-5373
Manger Electric Co Inc Stamford CT.....	203-348-7761
MEA Div Universal Instruments Corp Binghamton NY.....	607-772-7563
Midland-Ross Corp Electronic Connector Div Cambridge MA.....	617-491-5400
Mill-Max Mfg Co Oyster Bay NY.....	516-922-6000
Molex Inc Lisle IL.....	312-969-4550
Mupac Corp Brockton MA.....	617-588-6110
National Tel-Tronics Div Technodyne Inc Meadville PA.....	814-724-6440
Nutmeg Sorew Machine Products Co Waterbury CT.....	203-879-1496
O K Industries Bronx NY.....	212-994-6800
Omega Leads Inc Santa Monica CA.....	213-346-6786
Ora Electronics Div Alliance Rsch Corp Chatsworth CA.....	818-701-5848
Oxley Developments Co Ltd Ulverston Cumbria England.....	0229-52621
Panduit Corp Tinsley Park IL.....	312-532-1800
Patton-MacGyuer Inc Providence RI.....	401-941-6000
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Porcelain Products Co Carey OH.....	419-396-7621
Robinson Nugent Inc New Albany IN.....	812-945-0211
Russell Industries Inc Oceanide NY.....	516-536-5000
Sager Hingham MA.....	617-749-6700
Samtec Inc New Albany IN.....	812-944-6733
Seastrom Mfg Co Inc Glendale CA.....	213-245-9121
Sjoberg & Son Inc Cranston RI.....	401-461-8220
SOS Lighting Devices Div MEMCO Philadelphia PA.....	215-423-7077
SPC Technology Bensenville IL.....	312-766-6711
Stimpson Co Inc Bayport NY.....	516-472-2000
Teale Machine Co Inc Rochester NY.....	716-244-6700
Teledyne Ansonia Solderless Connector Div Ansonia CT.....	203-735-9311

Thomas & Betts Electrical Group Paritan NJ.....	201-685-1600
TRW Connector Div Elk Grove Village IL.....	312-981-6000
Tyton Corp Milwaukee WI.....	414-355-1130
United Technologies Automotive Grp Terminal Prods Huntington IL.....	219-356-2700
Universal Instruments Corp Binghamton NY.....	607-775-1102
Vaco Products Co Northbrook IL.....	312-564-3300
Vector Electronic Co Inc Sylmar CA.....	818-365-9661
Wall-Able Mfg Corp Chicago IL.....	312-440-1000
Weeco Electrical Connectors Inc Moores NY.....	518-298-4810
Weidmuller Terminations Inc Richmond VA.....	804-794-2877
Weiss-Aug Co Inc East Hanover NJ.....	201-887-7600
Whitso Inc Schiller Park IL.....	312-678-5200
Zierick Mfg Corp Mount Kisco NY.....	914-666-2911

TERMINAL STRIPS—BOARDS, FLAT

ALMO ELECTRONICS INC PHILADELPHIA PA.....	215-698-4000
ADV PG Green Pages	
AMP INCORPORATED HARRISBURG PA.....	717-564-0100
CONCORD ELECTRONICS CORP NEW YORK NY.....	212-777-6571
CONTINENTAL CONNECTOR CORP WOODSIDE NY.....	718-899-4422
ADV PGS 119, 120	
KEYSTONE ELECTRONICS CORP NEW YORK NY.....	212-475-4600
PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
Accurate Electronics Corp Elyria OH.....	216-365-1211
Aeronautical Electric Co Chicago IL.....	312-784-5200
Almo Electronics Inc Philadelphia PA.....	215-698-4000
AMP Incorporated Harrisburg PA.....	717-564-0100
AMP Products Corp Southeastern PA.....	215-647-1000
Ark-Les Corp Watertown MA.....	617-924-2330
Astrodyne Inc Hudson NH.....	603-880-8600
Autosplice Inc Woodside NY.....	718-429-0500
Carpenter Mfg Co Inc Manlius NY.....	315-682-9176
Concoro Plastics Inc Richmond Hill NY.....	718-849-9000
Concord Electronics Corp New York NY.....	212-777-6571
Continental Connector Corp Woodside NY.....	718-899-4422
Doran Mfg Co Cincinnati OH.....	513-681-5424
Dorco Electronics Inc Paramount CA.....	213-636-5552
Electrical Insulation Co Div Workman Elctn Prods Inc Sarasota FL.....	813-371-2355
Engineered Plastics Inc Gibsonville NC.....	919-449-4121
Ercona Corp Port Jefferson Sta NY.....	516-331-5500
Formed Plastics Inc Carle Place NY.....	516-ED4-2300
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
Industrial Electronic Hardware Corp New York NY.....	212-677-1881
Keystone Electronics Corp New York NY.....	212-475-4600
Kulka Smith Inc Manassas NJ.....	201-223-9400
Magnum Electric Erie MI.....	313-848-2555
Masterite Industries Corp Torrance CA.....	213-775-3471
Methode Electronics Inc Interconnect Prods Div Rolling Meadows IL.....	312-392-3500
Molex Inc Lisle IL.....	312-969-4550
National Tel-Tronics Div Technodyne Inc Meadville PA.....	814-724-6440
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Phonix Terminal Blocks Inc Harrisburg PA.....	717-944-1300
RDI-Reed Devices Inc Sub Augat Inc Carol Stream IL.....	312-682-4100
Reliance Electric Co Cleveland OH.....	800-245-4497
Ross Co Milton Southampton PA.....	215-355-0200
Sager Hingham MA.....	617-749-6700
Samtec Inc New Albany IN.....	812-944-6733
Seastrom Mfg Co Inc Glendale CA.....	213-245-9121
SPC Technology Bensenville IL.....	312-766-6711
Spruce Pine Mica Co Inc Spruce Pine NC.....	704-765-4241
Staffall Inc Providence RI.....	401-351-8282
TRW Connector Div Elk Grove Village IL.....	312-981-6000
USECO Div Litton Systems Inc Van Nuys CA.....	818-786-9381
Vector Electronic Co Inc Sylmar CA.....	818-365-9661
Weeco Electrical Connectors Inc Moores NY.....	518-298-4810

TERMINAL STRIPS—MOLDED

ALMO ELECTRONICS INC PHILADELPHIA PA.....	215-698-4000
ADV PG Green Pages	
AMP INCORPORATED HARRISBURG PA.....	717-564-0100
CONTINENTAL CONNECTOR CORP WOODSIDE NY.....	718-899-4422
ADV PGS 119, 120	
PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
Accurate Electronics Corp Elyria OH.....	216-365-1211
Allied Systems Corp Greensboro NC.....	919-299-2294
Almo Electronics Inc Philadelphia PA.....	215-698-4000
Amerace Corp Hackettstown NJ.....	201-852-1122
AMP Incorporated Harrisburg PA.....	717-564-0100
Ark-Les Corp Watertown MA.....	617-924-2330
Arnel Electronics Inc North Bergen NJ.....	201-869-4201
Bivar Inc Irvine CA.....	714-951-8808
Carpenter Mfg Co Inc Manlius NY.....	315-682-9176
Connectron Inc Laurence Harbor NJ.....	201-583-3000
Continental Connector Corp Woodside NY.....	718-899-4422
Curtis Industries Inc Milwaukee WI.....	414-354-1500
Doran Mfg Co Cincinnati OH.....	513-681-5424
DuPont Connector Systems Camp Hill PA.....	717-975-2000
Electrovert Inc Indus Elec & Elctn Prods Elmsford NY.....	914-592-7322
Ercona Corp Port Jefferson Sta NY.....	516-331-5500
JOLO Industries Inc Garden Grove CA.....	714-554-6840
Kulka Smith Inc Manassas NJ.....	201-223-9400
Magnum Electric Erie MI.....	313-848-2555
Masterite Industries Corp Torrance CA.....	213-775-3471

Methode Electronics Inc Interconnect Prods Div Rolling Meadows IL.....	312-392-3500
Moldtronic Inc Downers Grove IL.....	312-968-770
Molex Inc Lisle IL.....	312-969-4550
Mountain West Alarm Supply Co Phoenix AZ.....	602-263-88
National Tel-Tronics Div Technodyne Inc Meadville PA.....	814-724-6440
Nova-Tronix Inc Santa Clara CA.....	408-727-95
Ora Electronics Div Alliance Rsch Corp Chatsworth CA.....	818-701-5848
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Phonix Terminal Blocks Inc Harrisburg PA.....	717-944-1300
RDI-Reed Devices Inc Sub Augat Inc Carol Stream IL.....	312-682-4100
Reliance Electric Co Cleveland OH.....	800-245-4497
Sager Hingham MA.....	617-749-6700
Samtec Inc New Albany IN.....	812-944-6733
Seastrom Mfg Co Inc Glendale CA.....	213-245-9121
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Staffall Inc Providence RI.....	401-351-8282
TRW Connector Div Elk Grove Village IL.....	312-981-6000
Vernitron Corp Beau Products Div Laconia NH.....	603-524-51
Weeco Electrical Connectors Inc Moores NY.....	518-298-4810
Whitso Inc Schiller Park IL.....	312-678-5200

TERMINATIONS (LOADS)—DUMMY

BIRD ELECTRONIC CORP CLEVELAND (SOLON) OH.....	216-248-120
Airtron Div Litton Systems Inc Morris Plains NJ.....	201-539-5500
Alan Industries Inc Columbus IN.....	812-372-886
Arra Inc Bay Shore NY.....	516-231-840
Astrolab Inc Warren NJ.....	201-560-380
Barker & Williamson Bristol PA.....	215-788-555
Barth Electronics Boulder City NV.....	702-293-157
Bird Electronic Corp Cleveland (Solon) OH.....	216-248-120
Celwave R F Marlboro NJ.....	201-462-180
Connecticut Microwave Corp Canton CT.....	203-693-420
Continental Electronics Div Varian Assoc Dallas TX.....	214-381-710
Diamond Antenna & Microwave Corp Winchester MA.....	617-729-550
Dielectric Commun Unit General Signal Raymond ME.....	207-655-455
Eastern Microwave Corp Woburn MA.....	617-935-860
Elcom Systems Inc Boca Raton FL.....	305-994-177
Electro Impulse Lab Inc Red Bank NJ.....	201-741-040
EMC Technology Inc Cherry Hill NJ.....	609-429-780
Ferrite Control Co Div Micon Inc Brick NJ.....	201-458-333
Heath Co Benton Harbor MI.....	616-982-320
JFW Industries Inc Indianapolis IN.....	317-887-134
KDI Electronics Inc Whippany NJ.....	201-887-810
Kings Electronics Co Inc Tuckahoe NY.....	914-793-800
M/A-COM Millimeter Products Inc Burlington MA.....	617-272-300
M/A-COM Omni Spectra Inc Merrimack NH.....	603-424-411
Maury Microwave Corp Cucamonga CA.....	714-897-477
Meca Electronics Inc Denville NJ.....	201-625-060
Merrimack Industries Inc West Caldwell NJ.....	201-575-130
Microwave Development Labs Inc Natick MA.....	617-655-000
Microwave Engineering Corp North Andover MA.....	617-685-271
Milwaukee Resistor Corp Milwaukee WI.....	414-271-990
The Narda Microwave Corp Hauppauge NY.....	516-231-170
Omega Laboratories Inc Rowley MA.....	617-948-775
Pasternack Enterprises Irvine CA.....	714-854-850
Racal-Dana Instruments Inc Irvine CA.....	714-859-890
RLC Electronics Inc Mt Kisco NY.....	914-241-130
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-4120
Sealectro Corp Trumbull CT.....	203-372-411
Sohio Carborundum Niagara Falls NY.....	716-278-255
States Co Div Multi-Amp Corp Dallas TX.....	214-333-320
Struthers Electronics Corp Farmingdale NY.....	516-420-900
Tru-Connector Corp Peabody MA.....	617-532-070
TTC/Television Technology Corp Broomfield CO.....	303-465-414
Waveline Inc West Caldwell NJ.....	201-226-910
Weinschel Engineering Co Inc Gaithersburg MD.....	301-948-340

TERMINATIONS (LOADS)—MICROWAVE, FIXED

BIRD ELECTRONIC CORP CLEVELAND (SOLON) OH.....	216-248-120
TDK CORP TOKYO JAPAN.....	03-278-511
Airtron Div Litton Systems Inc Morris Plains NJ.....	201-539-5500
Alan Industries Inc Columbus IN.....	812-372-886
Alph Industries Inc Woburn MA.....	617-935-516
Arra Inc Bay Shore NY.....	516-231-840
Astrolab Inc Warren NJ.....	201-560-380
Autosplice Inc Woodside NY.....	718-429-050
Barth Electronics Boulder City NV.....	702-293-157
Bird Electronic Corp Cleveland (Solon) OH.....	216-248-120
Cardwell Condenser Corp Lindenhurst NY.....	516-957-720
Core-Tronics Inc Orange NJ.....	201-673-766
Diamond Antenna & Microwave Corp Winchester MA.....	617-729-550
Dielectric Commun Unit General Signal Raymond ME.....	207-655-455
Eastern Microwave Corp Woburn MA.....	617-935-860
Elcom Systems Inc Boca Raton FL.....	305-994-177
Electro Impulse Lab Inc Red Bank NJ.....	201-741-040
EMC Technology Inc Cherry Hill NJ.....	609-429-780
Ferrite Control Co Div Micon Inc Brick NJ.....	201-458-333
Gamma-F Corp Torrance CA.....	213-539-670
Hewlett-Packard Palo Alto CA.....	415-857-800
Hirose Electric USA Inc Chatsworth CA.....	818-709-124
International Manufacturing Services Portsmouth RI.....	401-683-970
JFW Industries Inc Indianapolis IN.....	317-887-134

DI Electronics Inc Whippany NJ.....	201-887-8100
ings Electronics Co Inc Tuckahoe NY.....	914-793-5000
I/A-COM Millimeter Products Inc Burlington MA.....	617-272-3000
I/A-COM Omni Spectra Inc Merrimack NH.....	603-424-4111
I/A-COM Semiconductor Prods Inc Burlington MA.....	617-272-3000
Iaury Microwave Corp Cucamonga CA.....	714-987-4715
leca Electronics Inc Denville NJ.....	201-625-0661
lrowave Development Labs Inc Natick MA.....	617-655-0060
lrowave Engineering Corp North Andover MA.....	617-685-2776
lini-Circuits Lab Brooklyn NY.....	718-934-4500
he Narda Microwave Corp Hauppauge NY.....	516-231-1700
mega Laboratories Inc Rowley MA.....	617-948-7757
asterack Enterprises Irvine CA.....	714-854-8500
LC Electronics Inc Mt Kisco NY.....	914-241-1334
ohde & Schwarz GmbH & Co KG.....	089-41290
Muenchen W Germany.....	089-41290
age Laboratories Inc Natick MA.....	617-655-0844
electro Corp Trumbull CT.....	203-372-4118
truthers Electronics Corp Farmingdale NY.....	516-420-9000
DK Corp Tokyo Japan.....	03-278-5111
an Electron Device Group Palo Alto CA.....	415-493-4000
lctor Microwave Inc Wakefield MA.....	617-245-4472
laveline Inc West Caldwell NJ.....	201-226-9100
lveischel Engineering Co Inc Gaithersburg MD.....	301-948-3434
lncorn Corp Woburn MA.....	617-935-6212

TERMINATIONS (LOADS)—MICROWAVE, VARIABLE

lan Industries Inc Columbus IN.....	812-372-8869
lpha Industries Inc Woburn MA.....	617-935-5150
strolab Inc Warren NJ.....	201-560-3800
iamond Antenna & Microwave Corp Winchester MA.....	617-729-5500
estern Microwave Corp Woburn MA.....	617-935-8600
MC Technology Inc Cherry Hill NJ.....	609-429-7800
erite Control Co Div Micon Inc Brick NJ.....	201-458-3333
FW Industries Inc Indianapolis IN.....	317-887-1340
DI Electronics Inc Whippany NJ.....	201-887-8100
I/A-COM Millimeter Products Inc Burlington MA.....	617-272-3000
Iaury Microwave Corp Cucamonga CA.....	714-987-4715
leca Electronics Inc Denville NJ.....	201-625-0661
lrowave Development Labs Inc Natick MA.....	617-655-0060
lrowave Engineering Corp North Andover MA.....	617-685-2776
he Narda Microwave Corp Hauppauge NY.....	516-231-1700
mega Laboratories Inc Rowley MA.....	617-948-7757
LC Electronics Inc Mt Kisco NY.....	914-241-1334
truthers Electronics Corp Farmingdale NY.....	516-420-9000
lctor Microwave Inc Wakefield MA.....	617-245-4472
laveline Inc West Caldwell NJ.....	201-226-9100

TERMINATIONS—RF

IRD ELECTRONIC CORP CLEVELAND (SOLON) OH.....	216-248-1200
ONCORD ELECTRONICS CORP NEW YORK NY.....	212-777-6571
ROMPETER ELECTRONICS INC WESTLAKE VILLAGE CA.....	818-707-2020
lan Industries Inc Columbus IN.....	812-372-8869
utopside Inc Woodside NY.....	718-429-0500
rd Electronic Corp Cleveland (Solon) OH.....	216-248-1200
ncord Electronics Corp New York NY.....	212-777-6571
re-Tronics Inc Orange NJ.....	201-673-7660
electric Commun Unit General Signal Raymond ME.....	207-655-4555
estern Microwave Corp Woburn MA.....	617-935-8600
MC Technology Inc Cherry Hill NJ.....	609-429-7800
erite Control Co Div Micon Inc Brick NJ.....	201-458-3333
leath Co Benton Harbor MI.....	616-982-3200
lrose Electric USA Inc Chatsworth CA.....	818-709-1247
FI Industries Inc Indianapolis IN.....	317-887-1340
DI Electronics Inc Whippany NJ.....	201-887-8100
ings Electronics Co Inc Tuckahoe NY.....	914-793-5000
I/A-COM Millimeter Products Inc Burlington MA.....	617-272-3000
I/A-COM Omni Spectra Inc Merrimack NH.....	603-424-4111
Iaury Microwave Corp Cucamonga CA.....	714-987-4715
he Narda Microwave Corp Hauppauge NY.....	516-231-1700
orth Hills Electronics Inc Glen Cove NY.....	516-671-5700
ILC Electronics Inc Mt Kisco NY.....	914-241-1334
lohde & Schwarz GmbH & Co KG.....	089-41290
Muenchen W Germany.....	089-41290
elonix/Berkeley Laguna Beach CA.....	714-494-9401
rompeter Electronics Inc Westlake Village CA.....	818-707-2020
Veinschel Engineering Co Inc Gaithersburg MD.....	301-948-3434
Vide Band Engineering Co Inc Phoenix AZ.....	602-254-1570

TEST CHAMBERS

See Chambers

TEST EQUIPMENT RENTAL

nnis Co R B Indianapolis IN.....	317-637-9282
irris Systems Corp Salt Lake City UT.....	801-466-6600
ontinental Resources Inc Bedford MA.....	617-275-0850
enstar Rental Electronics Inc Woodland Hills CA.....	818-887-4000
esametric Inc Foster City CA.....	415-574-4441
laroni Instruments Div Marconi Elctns Inc Allendale NJ.....	201-934-9050
olarad Electronics Inc Lake Success NY.....	516-328-1100
lockwell Engineering Co Indianapolis IN.....	317-251-9453

Rutherford Research Co Rutherford NJ.....	201-933-2091
Schaffner EMC Inc Instrument Div Union NJ.....	201-851-0644
Slecor Corp Hickory NC.....	704-327-5000
Solid State Testing Inc Burlington MA.....	617-272-0972
Spectral Dynamics Div Scientific-Atlanta Inc San Diego CA.....	619-268-7100
Tucker Electronics Co Garland TX.....	214-348-8800
Unimation Inc Danbury CT.....	203-744-1800
U S Instrument Rentals Inc San Mateo CA.....	415-572-6600
Wiltron Co Morgan Hill CA.....	408-778-2000

TESTERS—BATTERY

EVEREADY BATTERY CO INC DANBURY CT.....	203-794-2000
ADV PG 36 SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
Burnworth Tester Co Hayward CA.....	415-489-3994
Calibron Instruments Div Burton-Rogers Co Waltham MA.....	617-894-6440
Christie Electric Corp Torrance CA.....	213-320-0808
CNI Inc Orefield PA.....	215-395-6444
DigiTec Dayton OH.....	513-254-6251
ECO Instruments Div Sea Data Corp Newton MA.....	617-964-8360
E I L Instruments Inc Sparks MD.....	301-771-4800
Electronics Warehouse Inc Old Lyme CT.....	203-434-9838
Eveready Battery Co Inc Danbury CT.....	203-794-2000
Gates Electronic Co Inc Bronx NY.....	212-881-5900
Hoyt Electrical Instrument Wks Inc Penacook NH.....	603-753-6321
Kahl Scientific Instrument Corp El Cajon CA.....	619-444-2158
Multiplier Industries Corp Mt Vernon NY.....	914-699-0990
New York Testing Labs Inc Westbury NY.....	516-334-7770
North American Soar Corp Cherry Hill NJ.....	609-488-1060
Power Group International Richfield MN.....	612-890-1360
Q V S Inc East Orange NJ.....	201-673-3996
Rapid Electric Co Inc Brookfield CT.....	800-332-1111
Ratelco Inc Power Systems Div Seattle WA.....	206-624-7770
Schauer Mfg Corp Cincinnati OH.....	513-791-3030
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Simpson Electric Co Elgin IL.....	312-697-2260
Slaughter Co Ardmore OK.....	405-223-4773
Sterling Mfg Co Cleveland OH.....	216-781-7136
Tidewater Technological Inc Newport News VA.....	804-874-2800
Vaco Products Co Northbrook IL.....	312-564-3300
Viz Test Equip Div Viz Mfg Co Philadelphia PA.....	215-844-2628

TESTERS—CABLE (EXCEPT CABLE FAULT LOCATORS)

DEL ELECTRONICS CORP MT VERNON NY.....	914-699-2000
HIPOTRONICS INC BREWSTER NY.....	914-279-8091
American HV Test Systems Inc Accident MD.....	301-826-8651
Associated Research Inc Skokie IL.....	312-647-7850
A-Systems Inc Charlottesville VA.....	804-295-7200
Augat/ES.P Inc Hawthorne CA.....	213-973-0262
Biddle Instruments-Sensitek Blue Bell PA.....	215-646-9200
Burnworth Tester Co Hayward CA.....	415-489-3994
Canstar Communications Scarborough ON.....	416-293-9722
Chatsworth Data Corp Chatsworth CA.....	213-341-9200
Cirris Systems Corp Salt Lake City UT.....	801-466-6600
Consultronics Ltd Concord ON.....	416-738-3741
Custom Scientific Instruments Inc Cedar Knolls NJ.....	201-538-8500
Dantronics Inc St Paul MN.....	612-484-2108
Del Electronics Corp Mt Vernon NY.....	914-699-2000
Desco Industries Inc Walnut CA.....	714-598-2753
Dit-Mco International Kansas City MO.....	816-444-9700
Dowdy Electronics Co Brandon VT.....	802-247-6811
Glenair Inc Glendale CA.....	818-247-6000
Hipotronics Inc Brewster NY.....	914-279-8091
HMW Enterprises Eters PA.....	717-938-4691
Hollex Inc Melrose MA.....	617-665-2413
Hughes Aircraft Co Assembly & Test Prods Carlsbad CA.....	619-931-3622
Information Transfer Industrial Inc Holcomb NY.....	716-657-7074
International Data Sciences Inc Lincoln RI.....	401-333-6200
Micro Metrics Inc Paterson NJ.....	201-345-9700
North American Soar Corp Cherry Hill NJ.....	609-488-1060
Peschel Instruments Inc Cape Coral FL.....	813-574-3164
PolyPhaser Corp Gardenville NY.....	702-782-2511
Rutherford Research Co Rutherford NJ.....	201-933-2091
Schaffner EMC Inc Instrument Div Union NJ.....	201-851-0644
Sensor Corp Scottsdale PA.....	412-887-4080
Slecor Corp Hickory NC.....	704-327-5000
Slaughter Co Ardmore OK.....	405-223-4773
Telebyte Technology Inc Greenlawn NY.....	516-423-3232
Teradyne Inc Boston MA.....	617-482-2700
Testronics Richardson TX.....	214-238-8378
Tinius Olsen Testing Machine Co Willow Grove PA.....	215-675-7100
Wandel & Goltermann Inc Research Triangle Pk NC.....	919-544-8450
Wehman Test-Systems Inc Medford NJ.....	609-953-1784
Wenzel Assoc Inc Austin TX.....	512-345-2703
Wiltron Co Morgan Hill CA.....	408-778-2000
Xytec Systems Corp Clifton NJ.....	201-772-3444

TESTERS—CAPACITOR & DIELECTRIC

CLARKE-HESS COMMUNICATIONS RESEARCH NEW YORK NY.....	212-255-2940
HIPOTRONICS INC BREWSTER NY.....	914-279-8091
INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA.....	818-991-9614
Accutest Chelmsford MA.....	617-256-8124
Advantek Inc Minneapolis MN.....	612-944-7654
American HV Test Systems Inc Accident MD.....	301-826-8651

Anasco Corp Wakefield MA.....	617-246-3300
Andeen-Hagerling Inc Chagrin Falls OH.....	216-349-0370
Associated Research Inc Skokie IL.....	312-647-7850
Biddle Instruments-Sensitek Blue Bell PA.....	215-646-9200
B & K Precision Products Dynascan Corp Chicago IL.....	312-889-9087
Burnworth Tester Co Hayward CA.....	415-489-3994
Clarke-Hess Communications Research New York NY.....	212-255-2940
Custom Scientific Instruments Inc Cedar Knolls NJ.....	201-538-8500
Electro Scientific Industries Inc Portland OR.....	503-641-4141
Gen Rad Inc Waltham MA.....	617-369-4400
Genstar Rental Electronics Inc Woodland Hills CA.....	818-887-4000
Global Specialties Corp New Haven CT.....	203-624-3103
Guideline Instruments Inc Orlando FL.....	305-432-8215
Hilton Industries Inc Sarasota FL.....	813-371-2600
Hipotonics Inc Brewster NY.....	914-279-8091
Huntron Instruments Inc Lynnwood WA.....	206-743-3171
Intelligent Controls Inc Saco ME.....	207-283-0156
International Instrumentation Inc Westlake Village CA.....	818-991-9614
Jennings Div FL Industries San Jose CA.....	408-292-4025
Kahl Scientific Instrument Corp El Cajon CA.....	619-444-2158
Mechanical Technology Inc Latham NY.....	518-785-2211
Micro Instrument Co Escondido CA.....	619-746-2010
North American Soar Corp Cherry Hill NJ.....	609-488-1060
Optimized Devices Inc Pleasantville NY.....	914-769-6100
Oram Electronics Inc Brewster NY.....	914-279-2966
Penn Airborne Products Co Southampton PA.....	215-355-3400
Peschel Instruments Inc Cape Coral FL.....	813-574-3164
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
PolyPhaser Corp Gardenville NY.....	702-782-2511
Re Instruments Corp Westlake OH.....	216-871-7617
Rod-L Electronics Menlo Park CA.....	415-322-0717
Rutherford Research Co Rutherford NJ.....	201-933-2091
Sencore Inc Sioux Falls SD.....	605-339-0100
Slaughter Co Ardmore OK.....	405-223-4773
Tettest Instruments Inc Fairview Village PA.....	215-539-6050
Vu-Data Corp San Diego CA.....	619-279-6572

TESTERS, CIRCUIT—ANALOG (EXCEPT IC)

ELECTRO INDUSTRIES INC CHICAGO IL.....	312-736-0999
Advantest Corp Tokyo Japan.....	03-342-7500
Array Analysis Inc Ithaca NY.....	607-257-6800
ATE Associates Inc Westlake Village CA.....	818-991-4001
Atlantic Research Corp Alexandria VA.....	703-642-4000
Automatic Test Systems Malden MA.....	617-322-1107
Biddle Instruments-Sensitek Blue Bell PA.....	215-646-9200
Burnworth Tester Co Hayward CA.....	415-489-3994
Calibron Instruments Div Burton-Rogers Co Waltham MA.....	617-894-6440
Colorado Data Systems Inc Englewood CO.....	800-237-2831
Computer Automation Irvine CA.....	714-833-8830
Control Technology Div AirBorn Elect Corp Garland TX.....	214-272-5544
Design Automation Inc Lexington MA.....	617-862-8998
E I L Instruments Inc Sparks MD.....	301-771-4800
Electro Industries Inc Chicago IL.....	312-736-0999
Fluke Mfg Co Inc John Everett WA.....	206-356-5400
Gen Rad Inc Waltham MA.....	617-369-4400
Grumman Electronics Systems Div Great River NY.....	516-435-6000
Harris Corp Govt Support Sys Div Syosset NY.....	516-364-0400
Hewlett-Packard Palo Alto CA.....	415-857-8000
Huntron Instruments Inc Lynnwood WA.....	206-743-3171
Instrumentation Engineering Inc Franklin Lakes NJ.....	201-891-9300
North American Soar Corp Cherry Hill NJ.....	609-488-1060
Optimized Devices Inc Pleasantville NY.....	914-769-6100
Pacer Industries Inc Chippewa Falls WI.....	715-723-1141
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
Projects Unlimited Inc Dayton OH.....	513-890-1918
Q V S Inc East Orange NJ.....	201-673-3996
Sencore Inc Sioux Falls SD.....	605-339-0100
Simpson Electric Co Elgin IL.....	312-697-2260
Tektronix Inc Beaverton OR.....	800-547-6711
Teradyne Inc Boston MA.....	617-482-2700
Testronics Richardson TX.....	214-238-8378
Triplett Corp/A Penril Div Bluffton OH.....	419-358-5015
Universal Enterprises Inc Portland OR.....	503-644-8723
Wandel & Goltermann Inc Research Triangle Pk NC.....	919-544-8450
Warrick Controls Inc Berkeley MI.....	313-545-2512
Watkins-Johnson Co Palo Alto CA.....	415-493-4141
Wayne Kerr Inc Woburn MA.....	617-938-8390
Zehntel Inc Walnut Creek CA.....	415-946-0400

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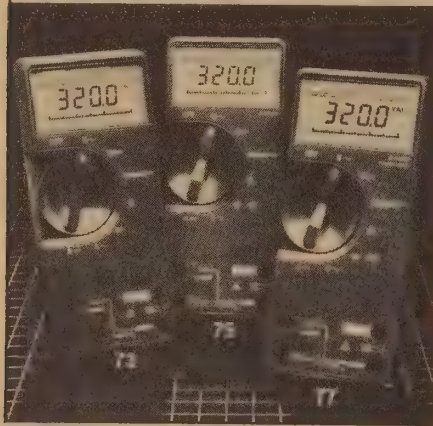


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Pacer Industries Inc Chippewa Falls WI.....	715-723-1141
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Teradyne Inc Boston MA.....	617-482-2700
Universal Enterprises Inc Portland OR.....	503-644-8723
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Zehntel Inc Walnut Creek CA.....	415-946-0400

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Accutest Chelmsford MA.....	617-256-8124
Advantest Corp Tokyo Japan.....	03-342-7500
AED Corp New Brighton MN.....	612-636-6760

Aehr Test Systems Menlo Park CA.....	415-321-1580
Array Analysis Inc Ithaca NY.....	607-257-6800
ATE Associates Inc Westlake Village CA.....	818-991-4001
Automatic Test Systems Malden MA.....	617-322-1107
Biddle Instruments-Sensitek Blue Bell PA.....	215-646-9200
B & K Precision Products Dynascan Corp Chicago IL.....	312-889-9087
Burnworth Tester Co Hayward CA.....	415-489-3994
Cadic Inc Beaverton OR.....	503-626-7902
Calibron Instruments Div Burton-Rogers Co Waltham MA.....	617-894-6440
Control Corp Sunnyvale CA.....	408-738-3777
Control Technology Div AirBorn Elect Corp Garland TX.....	214-272-5544
Datatron Inc Tustin CA.....	714-544-9970
Eagle Test Systems Inc Mundelein IL.....	312-367-8282
Eaton Semiconductor Equip Oper San Jose CA.....	408-943-0800
Eitel Mfg Inc Laguna Beach CA.....	714-494-2012
Epro Corporation San Jose CA.....	408-262-3912
Exatron Automatic Test Equipment Santa Clara CA.....	408-737-7111
Gen Rad Inc Waltham MA.....	617-369-4400
Global Specialties Corp New Haven CT.....	203-624-3103
Grumman Electronics Systems Div Great River NY.....	516-435-6000
Hewlett-Packard Palo Alto CA.....	415-857-8000
Hickok Electrical Instrument Co Cleveland OH.....	216-541-8060
Hunttron Instruments Inc Lynnwood WA.....	206-743-3171
Interface Technology Glendora CA.....	818-914-2741
LTX Corp Westwood MA.....	617-329-7550
Megatest Corp San Jose CA.....	408-998-7110
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Minato Electronics Inc Kohoku-Ku, Yokohama Japan.....	045-591-5611
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O K Industries Bronx NY.....	212-994-6600
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Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
Pragmatic Designs Inc Sunnyvale CA.....	408-736-8670
Reliability Inc Houston TX.....	713-492-0550
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Tau-Tron Inc Westford MA.....	617-692-5100
Tektronix Inc Beaverton OR.....	800-547-6711
Teradyne Inc Boston MA.....	617-482-2700
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Aehr Test Systems Menlo Park CA.....	415-321-1580
Analog Devices Inc Norwood MA.....	617-329-4700
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Automatic Test Systems Malden MA.....	617-322-1107
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Eagle Test Systems Inc Mundelein IL.....	312-367-8282
Eitel Mfg Inc Laguna Beach CA.....	714-494-2012
Gen Rad Inc Waltham MA.....	617-369-4400
Grumman Electronics Systems Div Great River NY.....	516-435-6000
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LTX Corp Westwood MA.....	617-329-7550
Micro Technical Industries Lake Forest CA.....	714-855-4326
Oliver Advanced Engineering Inc Glendale CA.....	818-240-0080
Optimized Devices Inc Pleasantville NY.....	914-769-6100
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
Pragmatic Designs Inc Sunnyvale CA.....	408-736-8670
Sentry Test Systems San Jose CA.....	408-998-0123
Solid State Testing Inc Burlington MA.....	617-272-0972
Tektronix Inc Beaverton OR.....	800-547-6711
Teradyne Inc Boston MA.....	617-482-2700
Testronics Richardson TX.....	214-238-8378
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Watkins-Johnson Co Palo Alto CA.....	415-493-4141
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HIPOTRONICS INC BREWSTER NY	914-279-8091
PERLEESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footprints	
TIME ZERO CORP CLIFTON NJ	201-340-0400
Aerotron Systems Contoocook NH.....	603-746-4631
Array Analysis Inc Ithaca NY.....	607-257-6800
Artronics Corp Danvers MA.....	617-777-2880
A-Systems Inc Charlottesville VA.....	804-295-7220
Automatic Test Systems Malden MA.....	617-322-1107
Biddle Instruments-Sensitek Blue Bell PA.....	215-646-9200
Burnworth Tester Co Hayward CA.....	415-489-3994
Cadic Inc Beaverton OR.....	503-626-7902
Carlton Industries Inc El Toro CA.....	714-770-7846
Computer Automation Irvine CA.....	714-833-8830
Datatron Inc Tustin CA.....	714-544-9970
Eaton Semiconductor Equip Oper San Jose CA.....	408-943-0800
ELMA Div Sandberg Ind Inc Irvine CA.....	714-261-9473
Engineered Technical Products Inc Somerville NJ.....	201-725-0330

Everett/Charles Test Equipment Inc Pomona CA.....	714-621-9511
Factron/Schlumberger Latham NY.....	518-783-3600
Flextronics Inc Newark CA.....	415-794-3511
Fluke Mfg Co Inc John Everett WA.....	206-356-5400
Gen Rad Inc Waltham MA.....	617-369-4400
Global Specialties Corp New Haven CT.....	203-624-3103
Grumman Electronics Systems Div Great River NY.....	516-435-6000
Hipotronics Inc Brewster NY.....	914-279-8091
Hunttron Instruments Inc Lynnwood WA.....	206-743-3171
Information Transfer Industrial Inc Holcomb NY.....	716-657-7070
Instrumentation Engineering Inc Franklin Lakes NJ.....	201-891-9300
Loranger Intl Corp Warren PA.....	814-723-3171
Magnum Opus Custom Electronic Engrg Iselin NJ.....	201-283-4911
Microcomputer Power Inc Morgan Hill CA.....	408-779-5711
Micro Control Co Minneapolis MN.....	612-786-8750
Micro Metrics Inc Paterson NJ.....	201-345-9711
Multi-Tech Industries Inc Marlboro NJ.....	201-431-0511
Optrotech Inc Billerica MA.....	617-272-4011
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Probe-Rite Inc Santa Clara CA.....	408-727-0111
Program Data Inc Irvine CA.....	714-660-0811
Reliability Inc Houston TX.....	713-492-0550
Sparton Technology Inc Rio Rancho NM.....	505-892-5300
Special Systems Inc Silver Spring MD.....	301-587-2260
Tektronix Inc Beaverton OR.....	800-547-6711
Teradyne Inc Boston MA.....	617-482-2700
Testronics Richardson TX.....	214-238-8378
Tidewater Technological Inc Newport News VA.....	804-874-2800
Time Zero Corp Clifton NJ.....	201-340-0400
Virginia Panel Corp Waynesboro VA.....	703-949-8311
Vu-Data Corp San Diego CA.....	619-279-6572
Watkins-Johnson Co Palo Alto CA.....	415-493-4141
Wayne Kerr Inc Woburn MA.....	617-938-8390
Wehman Test-Systems Inc Medford NJ.....	609-953-1780
Xytec Systems Corp Clifton NJ.....	201-772-3444
Zehntel Inc Walnut Creek CA.....	415-946-0400

TESTERS, CIRCUIT—PRINTED CIRCUIT, WIRING ONLY

TIME ZERO CORP CLIFTON NJ	201-340-0400
Array Analysis Inc Ithaca NY.....	607-257-6800
Artronics Corp Danvers MA.....	617-777-2880
Augat/ES.P Inc Hawthorne CA.....	213-973-0211
Automatic Test Systems Malden MA.....	617-322-1107
Biddle Instruments-Sensitek Blue Bell PA.....	215-646-9200
Burnworth Tester Co Hayward CA.....	415-489-3994
Cincinnati ElectroSystems Inc Loveland OH.....	513-891-4341
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Control Technology Div AirBorn Elect Corp Garland TX.....	214-272-5544
dataCon Inc The Wire Wrappers Burlington MA.....	617-273-5800
Data Set Cable Co Ridgely CT.....	203-438-9660
Dit-Mco International Kansas City MO.....	816-444-9700
Everett/Charles Test Equipment Inc Pomona CA.....	714-621-9511
Factron/Schlumberger Latham NY.....	518-783-3600
Gen Rad Inc Waltham MA.....	617-369-4400
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Associated Research Inc Skokie IL.....	312-647-7850
Automatic Test Systems Malden MA.....	617-322-1107
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Biddle Instruments-Sensitek Blue Bell PA.....	215-646-9200
Burnworth Tester Co Hayward CA.....	415-489-3994
Dranetz Technologies Inc Edison NJ.....	201-287-3660
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Hipotronics Inc Brewster NY.....	914-279-8091
International Electro-Magnetics Inc Palatine IL.....	312-358-4622
Martindale Electric Co Cleveland OH.....	216-521-8560
Peschel Instruments Inc Cape Coral FL.....	813-574-3136
Secore Inc Sioux Falls SD.....	605-339-0100
Slaughter Co Ardmore OK.....	405-223-4771
Tektronix Inc Beaverton OR.....	800-547-6711
Wabash Electrical Components Group Huntington IN.....	219-356-8300
Wabash Relay & Electronics Div Wabash IN.....	219-563-2190
Wayne Kerr Inc Woburn MA.....	617-938-8390

TESTERS—CONTINUITY

Anasco Corp Wakefield MA	617-246-3300
Array Analysis Inc Ithaca NY	607-257-6800
Agat/ES.P Inc Hawthorne CA	213-973-0262
Automation Unit Inc Woburn MA	617-933-7288
Jiddle Instruments-Sensitek Blue Bell PA	215-646-9200
Burnworth Tester Co Hayward CA	415-489-3994
Jiris Systems Corp Salt Lake City UT	801-466-6600
Textech Instruments & Cont Div Waltham MA	617-890-7440
Hollex Inc Melrose MA	617-665-2413
Lughes Aircraft Co Ind Prods Div Carlsbad CA	619-931-3000
Information Transfer Industrial Inc Holtcomb NY	716-657-7074
North American Soar Corp Cherry Hill NJ	609-488-1060
Probe-Rite Inc Santa Clara CA	408-727-0100
Electronics Richardson TX	214-238-8378
Laco Products Co Northbrook IL	312-564-3300
Vehtman Test-Systems Inc Medford NJ	609-953-1784
Yteq Systems Corp Clifton NJ	201-772-3444

TESTERS—DIODE, SEMICONDUCTOR

BERTAN ASSOCIATES INC HICKSVILLE NY	516-433-3110
MICRO TECHNICAL INDUSTRIES LAKE FOREST CA ADV PG 467	714-855-4326
Anasco Corp Wakefield MA	617-246-3300
Applied Optoelectronic Technology Corp Sunnyvale CA	408-734-2516
Bertan Associates Inc Hicksville NY	516-433-3110
J & K Precision Products Dynascan Corp Chicago IL	312-889-9087
Burnworth Tester Co Hayward CA	415-489-3994
Desco Industries Inc Walnut CA	714-598-2753
Intel Mfg Inc Laguna Beach CA	714-494-2012
Gen Rad Inc Waltham MA	617-369-4400
Leath Co Benton Harbor MI	616-982-3200
Hollock Electrical Instrument Co Cleveland OH	216-541-8060
Lutron Instruments Inc Lynnwood WA	206-743-3171
Leithley Instruments Inc Cleveland OH	216-248-0400
Marson Aero Development Martinez CA	415-228-7870
Leighton Electronics Inc Leighton PA	215-377-5990
Omec Div Reedholm Instruments Co Fremont CA	415-490-5666
Markenrich Corp Santa Fe Springs CA	213-921-0250
Lasstech Inc West Peabody MA	617-535-7490
Micro Instrument Co Escondido CA	619-746-2010
Micro Technical Industries Lake Forest CA	714-855-4326
North American Soar Corp Cherry Hill NJ	609-488-1060
Optimized Devices Inc Pleasantville NY	914-769-6100
Pioneer Instrumentation Div Pioneer Std Cleveland OH	216-587-3600
PhyPhaser Corp Gardnerville NV	702-782-2511
Age Enterprises Inc Mt View CA	415-969-5111
Incure Inc Sioux Falls SD	605-339-0100
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Elektronix Inc Beaverton OR	800-547-6711
Eradynne Inc Boston MA	617-482-2700
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rio-Tech International Burbank CA	213-846-9200
Elonex Santa Clara CA	408-727-7370
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Wayne Kerr Inc Woburn MA	617-938-8390

TESTERS—GYRO

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Enton Corp Warrendale PA	412-776-5577
Arco Electronics Menlo Park CA	415-321-8174
Dranez Technologies Inc Edison NJ	201-287-3680
Itton Industries Guidance & Controls Sys Div Woodland Hills CA	818-715-4040
North Atlantic Industries Inc Hauppauge NY	516-582-6500
Orthop Corp Prec Prods Div Norwood MA	617-762-5300
Inger Co Kearfott Div Little Falls NJ	201-785-6000
perry Corp Aerospace & Marine Group Phoenix AZ	602-869-2311

TESTERS—HEARING

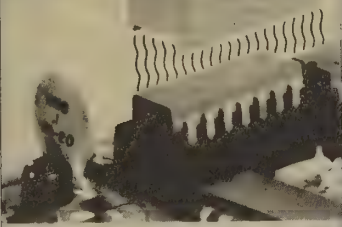
See Audiometers

TESTERS—INSULATION

DEL ELECTRONICS CORP MT VERNON NY	914-699-2000
MIROMARINE SYSTEMS INC LAUREL MD	301-598-8833
HIPOTRONICS INC BREWSTER NY	914-279-8091
American HV Test Systems Inc Accident MD	301-826-8651
Anasco Corp Wakefield MA	617-246-3300
Applied Optoelectronic Technology Corp Sunnyvale CA	408-734-2516
Associated Research Inc Skokie IL	312-647-7850
Agat/ES.P Inc Hawthorne CA	213-973-0262
Automatic Test Systems Malden MA	617-322-1107
Avtron Mfg Inc Cleveland OH	216-641-8310
Jiddle Instruments-Sensitek Blue Bell PA	215-646-9200
Burnworth Tester Co Hayward CA	415-489-3994
Health Instrument Inc Escondido CA	714-743-2800
Chatsworth Data Corp Chatsworth CA	213-341-9200
Commonwealth Engineering Montreal PQ	514-744-1004
Custom Scientific Instruments Inc Cedar Knolls NJ	201-538-8500
Del Electronics Corp Mt Vernon NY	914-699-2000
IL-Mco International Kansas City MO	816-444-9700
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Optimized Devices Inc Pleasantville NY	914-769-6100
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Peschel Instruments Inc Cape Coral FL	813-574-3164
Pioneer Instrumentation Div Pioneer Std Cleveland OH	216-587-3600
PolyPhaser Corp Gardnerville NV	702-782-2511
Q V S Inc East Orange NJ	201-673-3996
Rod-L Electronics Menlo Park CA	415-322-0711
Rutherford Research Co Rutherford NJ	201-933-2091
Schaffner EMC Inc Instrument Div Union NJ	201-851-0644
Sensor Developments Inc Oxford MI	313-628-2727
Simpson Electric Co Elgin IL	312-697-2260
Slaughter Co Ardmore OK	405-223-4773
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
Square D Co Palatine IL	312-397-2600
States Co Div Multi-Amp Corp Dallas TX	214-333-3201
Sticht Co Inc Herman H New York NY	212-732-8163
Techrand Corp of America Muskegon MI	616-744-1663
Tetlex Instruments Inc Fairview Village PA	215-539-6050
Torotron Corp Mt Vernon NY	914-664-2050
Universal Enterprises Inc Portland OR	503-664-8723
Universal Volttronics Corp Mount Kisco NY	914-241-1300
Velonex Santa Clara CA	408-727-7370
Wehman Test-Systems Inc Medford NJ	609-953-1784
Yokogawa Corp Of America Shenandoah GA	404-253-7000

TESTERS—LEAK

See Leak Detectors

TESTERS—POTENTIOMETER LINEARITY

Carter Mfg Corp Bolton MA	617-779-5501
Commonwealth Engineering Montreal PQ	514-744-1004
Gen Rad Inc Waltham MA	617-369-4400
Liton Systems Inc Potentiometer Div Mt Vernon NY	914-664-7733
Optimized Devices Inc Pleasantville NY	914-769-6100
Solatron Enterprises Ingwood CA	213-678-4981
Tetlex Instruments Inc Fairview Village PA	215-539-6050

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AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Sencore Inc Sioux Falls SD	605-339-0100

TESTERS—RELAY

American HV Test Systems Inc Accident MD	301-826-8651
Automatic Test Systems Malden MA	617-322-1107
Automech Associates Inc North Haven CT	203-239-2233
Avtron Mfg Inc Cleveland OH	216-641-8310
Burnworth Tester Co Hayward CA	415-489-3994
Dranez Technologies Inc Edison NJ	201-287-3680
Markenrich Corp Santa Fe Springs CA	213-921-0250
Optimized Devices Inc Pleasantville NY	914-769-6100
PPM Inc Cleveland OH	216-292-6006
Program Data Inc Irvine CA	714-660-0818
Sigma Instruments Inc Switching Div Baintree MA	617-843-5000
Solatron Enterprises Ingwood CA	213-678-4981
Special Systems Inc Silver Spring MD	301-587-2260
States Co Div Multi-Amp Corp Dallas TX	214-333-3201
Struthers-Dunn Inc Pitman NJ	609-589-7500
Testronics Richardson TX	214-238-8378
Tidewater Technological Inc Newport News VA	804-874-2800
Wilmar Electronics Inc Torrance CA	213-326-6668

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Hipotronics Inc Brewster NY	914-279-8091
Leighton Electronics Inc Leighton PA	215-377-5990
Lomac Div Reedholm Instruments Co Fremont CA	415-490-5666
Micro Technical Industries Lake Forest CA	714-855-4326
Minato Electronics Inc Kokoku-ku, Yokohama Japan	045-591-5611
North Hills Electronics Inc Glen Cove NY	516-671-5700
Sage Enterprises Inc Mt View CA	415-969-5111
Tencor Instruments Mt View CA	415-969-6767
Velonex Santa Clara CA	408-727-7370

TESTERS—SERVO & SYNCHRO

COMPUTER CONVERSIONS CORP EAST NORTHPORT NY	516-261-3300
ILC DATA DEVICE CORP BOHEMIA NY	516-567-5600
Astrosystems Inc Lake Success NY	516-328-1100
Automatic Test Systems Malden MA	617-322-1107
Batco Inc Warminster PA	215-674-1700
Carco Electronics Menlo Park CA	415-321-8174
Computer Conversions Corp East Northport NY	516-261-3300
Computer Optical Products Inc Chatsworth CA	818-882-0424
Dranez Technologies Inc Edison NJ	201-287-3680
Eaton Corp Elctr Inst Div Ronkonkoma NY	516-588-3600
Gap Instrument Corp Smithtown NY	516-273-0909
ILC Data Device Corp Bohemia NY	516-567-5600
Industrial Control Co Rockledge FL	305-259-7105
Instrumentation Engineering Inc Franklin Lakes NJ	201-891-9300
Kaybar Corp Little Ferry NJ	201-440-3848
Malwin Electronics Corp Paterson NJ	201-881-1500
McFadden Systems Inc South Gate CA	213-564-5958
North Atlantic Industries Inc Hauppauge NY	516-582-6500
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Shapiro Scientific Instruments Corona del Mar CA	714-675-1024
Singer Co Kearfott Div Little Falls NJ	201-785-6000

TESTERS—SHOCK

See Shock Test Equipment

TESTERS—SIGNAL TRACING

Automatic Test Systems Malden MA	617-322-1107
Desco Industries Inc Walnut CA	714-598-2753
Heath Co Benton Harbor MI	616-982-3200
Hollex Inc Melrose MA	617-665-2413
Hunttron Instruments Inc Lynnwood WA	206-743-3171
Nu-Concept Computer Systems Inc Colmar PA	215-275-3200
Optimized Devices Inc Pleasantville NY	914-769-6100
Projects Unlimited Inc Dayton OH	513-890-1918
Telebyte Technology Inc Greenlawn NY	516-423-3232
Venator Systems Inc San Jose CA	408-262-7788
Zehntel Inc Walnut Creek CA	415-946-0400

TESTERS—STATIC CONTROL

Compliance Design Inc Boxborough MA	617-264-4668
Desco Industries Inc Walnut CA	714-598-2753
Schaffner EMC Inc Instrument Div Union NJ	201-851-0644
Simco Co Inc Hatfield PA	215-822-2171
Wescorp Div DAL Indus Inc Mt View CA	415-969-7717

TESTERS—TORQUE

Automatic Test Systems Malden MA	617-322-1107
Carco Electronics Menlo Park CA	415-321-8174
Chattillon & Sons John Kew Gardens NY	718-847-5000
Engineered Technical Products Inc Somerville NJ	201-725-0330
General Thermodynamics Corp Plymouth MA	617-746-0200
GSE Inc Farmington Hills MI	313-476-7875
Himmelstein & Co S Hoffman Estates IL	312-843-3300
Indikon Corp Cambridge MA	617-547-3604
Marathon Products Corp West Boylston MA	617-853-0988
McFadden Systems Inc South Gate CA	213-564-5958
MTS Systems Corp Minneapolis MN	612-937-4000
Organic Products Co Irving TX	214-438-7321
Sensor Developments Inc Oxford MI	313-628-2727
Tinius Olsen Testing Machine Co Willow Grove PA	215-675-7100
Waters Mfg Inc Wayland MA	617-358-2777
West Coast Research Corp Los Angeles CA	213-478-8833

TESTERS—TRANSISTOR

MICRO TECHNICAL INDUSTRIES

LAKE FOREST CA..... 714-855-4326

ADVP PG 467	
Anasco Corp Wakefield MA	617-246-3300
Applied Optoelectronic Technology Corp Sunnyvale CA	408-734-2516
B & K Precision Products Dynascan Corp Chicago IL	312-889-9087
Calibron Instruments Div Burton-Rogers Co Waltham MA	617-894-6440
Custom Scientific Instruments Inc Cedar Knolls NJ	201-538-8500
Gen Rad Inc Waltham MA	617-369-4400
Heath Co Benton Harbor MI	616-982-3200
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
Hunttron Instruments Inc Lynnwood WA	206-743-3171
Leader Instruments Corp Hauppauge NY	516-231-6900
Lomac Div Reedholm Instruments Co Fremont CA	415-490-5666
Mastech Inc West Peabody MA	617-535-7490
Micro Instrument Co Escondido CA	619-746-2010
Micro Technical Industries Lake Forest CA	714-855-4326
North American Soar Corp Cherry Hill NJ	609-488-1060
Pioneer Instrumentation Div Pioneer Std Cleveland OH	216-587-3600
Sage Enterprises Inc Mt View CA	415-969-5111
Sencore Inc Sioux Falls SD	605-339-0100
Solid State Testing Inc Burlington MA	617-272-0972
Tektronix Inc Beaverton OR	800-547-6711
Teradyne Inc Boston MA	617-482-2700
Testronics Richardson TX	214-238-8378
Trio-Tech International Burbank CA	213-846-9200
Triplet Corp/A Penril Div Bluffton OH	419-358-5015
Velonex Santa Clara CA	408-727-7370
Viz Test Equip Div Viz Mfg Co Philadelphia PA	215-844-2626
Vu-Data Corp San Diego CA	619-279-6572

TESTERS, TUBE—MICROWAVE & RF
POWER

GENERAL MICROWAVE CORP

AMITYVILLE NY	516-226-8900
Cober Electronics Inc Stamford CT	203-327-0003
General Microwave Corp Amityville NY	516-226-8900
RIL Electronics Inc Warrington PA	215-343-5075
Universal Voltronics Corp Mount Kisco NY	914-241-1300

TESTERS, TUBE—RECEIVING TUBES

B & K Precision Products Dynascan Corp Chicago IL	312-889-9087
Heath Co Benton Harbor MI	616-982-3200
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
LaPointe Industries Inc Rockville CT	302-872-8581
Pioneer Instrumentation Div Pioneer Std Cleveland OH	216-587-3600
RIL Electronics Inc Warrington PA	215-343-5075

TESTERS, TUBE—ULTRASONIC
EQUIPMENT

RIL Electronics Inc Warrington PA	215-343-5075
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TESTERS—VIBRATIONS

See Vibration Test Machines

TEST INSTRUMENTS & ACCESSORIES

See Instruments & Accessories Reference List

TEST LABORATORIES

See Laboratories

See Also Calibration Services

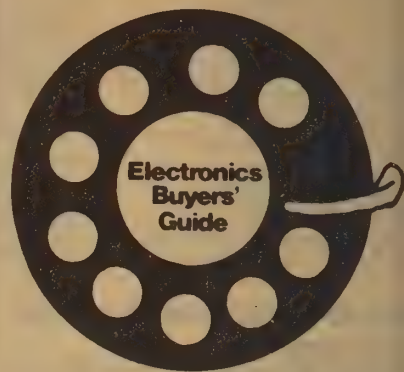
TEST SETS—COMMUNICATIONS
CHANNEL (EXCEPT DIGITAL DATA)

BIRD ELECTRONIC CORP CLEVELAND (SOLON) OH	216-248-1200
ADC Telecommunications Minneapolis MN	612-835-6800
Anasco Corp Wakefield MA	617-246-3300
Anritsu America Inc Oakland NJ	201-337-1111
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
AQ Systems Inc Yorktown Hts NY	914-962-4264
Atlantic Research Corp Alexandria VA	703-642-4000
Ballantine Laboratories Inc Bonton NJ	201-335-0900
Base Ten Systems Inc Trenton NJ	609-586-7010
Bird Electronic Corp Cleveland (Solon) OH	216-248-1200
Bowmar/ALI Inc Acton MA	617-263-8365
Colorado Data Systems Inc Englewood CO	800-237-2831
Compliance Design Inc Boxborough MA	617-264-4668
Comstron Corp Freeport NY	516-546-9700
Consultronics Ltd Concord ON	416-738-3741
Control Technology Div AirBorn Elect Corp Garland TX	214-272-5544
Cushman Electronics Inc San Jose CA	408-263-8100
Digitech Industries Inc Ridgefield CT	203-438-3731
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Electrac Inc Anaheim CA	714-879-6021
Electro Standards Lab Inc Providence RI	401-943-1164
Fotec Inc Boston MA	617-241-7810
Foundation Instruments Inc Nepean ON	613-226-4000
Halcyon Communications Inc San Jose CA	408-293-9970
Hekimian Labs Inc Gaithersburg MD	301-840-1217
Hewlett-Packard Palo Alto CA	415-857-8000
Intelco West Acton MA	617-264-4485
Larse Corp Santa Clara CA	408-988-6600
Lear Siegler Inc Santa Monica CA	213-452-5444
LNR Communications Inc Hauppauge NY	516-273-7111
Locus Inc State College PA	814-466-6275
LogiMetrics Inc Plainview NY	516-349-1700
Miller Communications Systems Ltd Kanata ON	613-592-3020
NCR Comten Inc St Paul MN	612-638-7777
Photodyne Inc Newbury Park CA	818-889-8770
Pioneer Instrumentation Div Pioneer Std Cleveland OH	216-587-3600
Polarad Electronics Inc Lake Success NY	516-328-1100
Q V S Inc East Orange NJ	201-673-3996
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Rycom Instruments Raytown MO	800-851-7347
Scitex Corp Newport RI	401-849-4353
Signatron Inc Lexington MA	617-861-1500
Systems Technology Assoc Washington DC	703-471-8000
Tau-Tron Inc Westford MA	617-692-5100
Telecommunications Techniques Corp Gaithersburg MD	301-258-5011
Telton Corp Kirkland WA	206-827-9626
T M Systems Inc Bridgeport CT	203-366-4571
Venator Systems Inc San Jose CA	408-262-7788
Wandel & Goltermann Inc Research Triangle Pk NC	919-544-8450
Wavetek Indiana Inc Beech Grove IN	317-787-3332
Wiltron Co Morgan Hill CA	408-778-2000

TEST SETS—COMMUNICATIONS
CHANNEL, DIGITAL DATA (INCL.
MODEM)

CLARKE-HESS COMMUNICATIONS RESEARCH

NEW YORK NY	212-255-2940
ADC Telecommunications Minneapolis MN	612-835-6800
Adtech Inc Honolulu HI	808-941-0708
Amdahl Communications Systems Div Richardson TX	214-699-9500
Anasco Corp Wakefield MA	617-246-3300
Anritsu America Inc Oakland NJ	201-337-1111
AQ Systems Inc Yorktown Hts NY	914-962-4264
Astrocom Corp St Paul MN	612-227-8651
Atlantic Research Corp Alexandria VA	703-642-4000
Aydin Monitor Systems Ft Washington PA	215-646-8100
Bay Technical Associates Inc Bay St Louis MS	601-467-8231
Bowmar/ALI Inc Acton MA	617-263-8365
Canstar Communications Scarborough ON	416-293-9722
Carroll Touch Round Rock TX	512-244-3500
Chesterfield Products Inc Elmwood Park NJ	201-797-9655
Clarke-Hess Communications Research New York NY	212-255-2940
Colorado Data Systems Inc Englewood CO	800-237-2831
ComData Corp Morton Grove IL	312-470-9600
Compliance Design Inc Boxborough MA	617-264-4668
Comstron Corp Freeport NY	516-546-9700
Convex Corp Washington DC	703-661-8900
Data-Control Systems A CompuDyne Co Rockville MD	301-279-8798
Dataprobe Inc Palisades Park NJ	201-947-9500
Dataproducts Corp Woodland Hills CA	818-887-8000
Data/Ware Development Inc San Diego CA	619-453-7660
Decom Systems Inc San Marcos CA	619-744-1002
Designed Enclosures Inc dba DEI Teleproducts Escondido CA	619-743-8344
Digilog Inc Montgomeryville PA	215-628-4530
Digitech Industries Inc Ridgefield CT	203-438-3731
Dynatech Packet Tech Alexandria VA	703-642-9391
Dynatech Data Systems Springfield VA	703-569-9000
Electrac Inc Anaheim CA	714-879-6021
Electro Standards Lab Inc Providence RI	401-943-1164
Fotec Inc Boston MA	617-241-7810

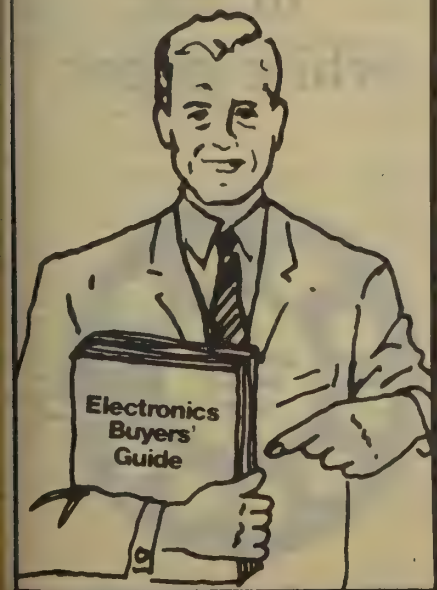


“How do I
find out
whom to
contact
and how to
reach him?”
Look in the
green pages
of this
book.



**Want
the total picture?
Focus on
the green pages.**

**Find
over 5,000
companies,
names,
addresses,
telephone
numbers,
names of person
to contact,
numbers of
engineers,
employees and
sales volume,
sales offices and
distributors!**



Gandalf Data Inc Wheeling IL	312-541-6060
Halcyon Communications Inc San Jose CA	408-293-9970
Hekimian Labs Inc Gaithersburg MD	301-840-1217
Immac Santa Clara CA	408-727-1970
Intelco West Acton MA	617-264-4485
International Data Sciences Inc Lincoln RI	401-333-6200
Larse Corp Santa Clara CA	408-988-6600
Metatek Inc Minneapolis MN	612-786-8253
Miller Communications Systems Ltd Kanata ON	613-592-3020
Multi-Tech Systems Inc New Brighton MN	612-631-3550
NCR Comten Inc St Paul MN	612-638-7777
Nu Data Corp Little Silver NJ	201-842-5757
Phoenix Microsystems Inc Huntsville AL	205-881-2173
Photodyne Inc Newbury Park CA	818-889-8770
Pioneer Instrumentation Div Pioneer Std Cleveland OH	216-587-3600
Racal-Milgo Inc Sunrise	305-475-1601
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Scitex Corp Newport RI	401-849-4353
Signatron Inc Lexington MA	617-861-1500
Sparton Technology Inc Rio Rancho NM	505-892-5300
Support Systems Intl Cables & Access Div Richmond CA	415-234-9090
Tau-Tron Inc Westford MA	617-692-5100
Telebyte Technology Inc Greenlawn NY	516-423-3232
Telecommunications Techniques Corp Gaithersburg MD	301-258-5011
Timeplex Inc Woodcliff Lake NJ	201-391-1111
T M Systems Inc Bridgeport CT	203-366-4571
Universal Data Systems Huntsville AL	205-837-8100
Vector Associates Inc Yaphank NY	516-924-0100
Venator Systems Inc San Jose CA	408-262-7788
Wandel & Gottermann Inc Research Triangle Pk NC	919-544-8450
Wilson Labs Inc Orange CA	714-998-1980
Wiltron Co Morgan Hill CA	408-778-2000

TEST SETS—COMPUTER, PORTABLE

ADC Telecommunications Minneapolis MN	612-835-6800
Burnworth Tester Co Hayward CA	415-489-3994
Digitech Industries Inc Ridgefield CT	203-438-3731
Dynatech Packet Tech Alexandria VA	703-642-9391
Electro Standards Lab Inc Providence RI	401-943-1164
Northern Precision Labs Inc Fairfield NJ	201-227-4800
RVS Electronics Inc Circleville NY	914-342-3199
SPC Technology Bensenville IL	312-766-6711
Special Systems Inc Silver Spring MD	301-587-2260
Telpar Inc Addison TX	214-233-6631
Vu-Data Corp San Diego CA	619-279-6572
Wilson Labs Inc Orange CA	714-998-1980

TEST SETS—MICROWAVE NOISE MEASURING

Alpha Industries Inc Woburn MA	617-935-5150
Anritsu America Inc Oakland NJ	201-337-1111
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Columbia Research Labs Inc Woodlyn PA	215-872-3900
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Harris Corp Govt Support Sys Div Syosset NY	516-364-0400
Hewlett-Packard Palo Alto CA	415-857-8000
Instrument Specialties Co Inc Delaware Water Gap PA	717-424-8510
International Microwave Corp Stamford CT	203-323-5599
LNR Communications Inc Hauppauge NY	516-273-7111
LogiMetrics Inc Plainview NY	516-349-1700
Marconi Instruments Div Marconi Elctns Inc Allendale NJ	201-934-9050
Maury Microwave Corp Cucamonga CA	714-987-4715
Polarad Electronics Inc Lake Success NY	516-328-1100
Schaffner EMC Inc Instrument Div Union NJ	201-851-0644
Waveline Inc West Caldwell NJ	201-226-9100

TEST SYSTEMS, AUTOMATIC CHECKOUT—AEROSPACE, MILITARY & SHIP SUPPORT (EXCEPT MICROWAVE, RADAR & SONAR)

Amherst Systems Inc Buffalo NY	716-631-0610
Anritsu America Inc Oakland NJ	201-337-1111
ATE Associates Inc Westlake Village CA	818-991-4001
Augut/ES, P Inc Hawthorne CA	213-973-0262
Avtron Mfg Inc Cleveland OH	216-641-8310
Axis Inc San Diego CA	619-560-7737
Colorado Data Systems Inc Englewood CO	800-237-2831
Commonwealth Engineering Montreal PQ	514-744-1004
Cytec Corp Rochester NY	716-381-4740
Data/Ware Development Inc San Diego CA	619-453-7660
EG & G Gamma Scientific Inc San Diego CA	619-279-8034
Elecor Associates Morris Plains NJ	201-299-1615
Grunman Electronics Systems Div Great River NY	516-435-6000
Hughes Aircraft Co Ind Prods Div Carlsbad CA	619-931-3000
Julie Research Labs Inc New York NY	212-245-2727
Lockheed Electronics Co Inc Plainfield NJ	201-757-1600
Lockheed-Georgia Co Marietta GA	404-424-4914
Locus Inc State College PA	814-466-6275
North Atlantic Industries Inc Hauppauge NY	516-582-6500
Northern Precision Labs Inc Fairfield NJ	201-227-4800
Pacific Electro Dynamics Inc Redmond WA	206-881-1700
Photo Research Div Kollmorgen Corp Burbank CA	818-843-6100
Serial Lab Products Inc Marlboro MA	617-481-1684
Singer Co Kearfott Div Little Falls NJ	201-785-6000
Valhalla Scientific Inc San Diego CA	619-457-5576

Watkins-Johnson Co Palo Alto CA	415-493-4141
Wayne Kerr Inc Woburn MA	617-938-8390

TEST SYSTEMS, AUTOMATIC CHECKOUT—MICROWAVE & RADAR

SANDERS ASSOCIATES INC NASHUA NH	603-885-4321
AAI Corp Baltimore MD	301-666-1400
Anritsu America Inc Oakland NJ	201-337-1111
Astrolab Inc Warren NJ	201-560-3800
A-Systems Inc Charlottesville VA	804-295-7200
ATE Associates Inc Westlake Village CA	818-991-4001
Bendix Air Transport Avionics Div Ft Lauderdale FL	305-928-2100
California Microwave Inc Sunnyvale CA	408-732-4000
Carco Electronics Menlo Park CA	415-321-8174
Cober Electronics Inc Stamford CT	203-327-0003
Computer Sciences Corp El Segundo CA	213-615-0311
Consultronics Ltd Concord ON	416-738-3741
Eaton Corp AIL Div Deer Park NY	516-595-5000
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Goodyear Aerospace Corp Akron OH	216-796-2121
Grunman Electronics Systems Div Great River NY	516-435-6000
Harris Corp Govt Support Sys Div Syosset NY	516-364-0400
Hazeltine Corp Commack NY	516-462-5100
International Microwave Corp Stamford CT	203-323-5599
Lockheed Electronics Co Inc Plainfield NJ	201-757-1600
Lockheed-Georgia Co Marietta GA	404-424-4914
Locus Inc State College PA	814-466-6275
LogiMetrics Inc Plainview NY	516-349-1700
Logus Mfg Corp Deer Park NY	516-242-5970
The Narda Microwave Corp Hauppauge NY	516-231-1700
Racal-Dana Instruments Inc Irvine CA	714-859-8999
RCA Government Systems Div Cherry Hill NJ	609-338-3000
Republic Electronics Inc Melville NY	516-249-1414
Rodale Electronics Corp Garden City NY	516-222-0050
Sanders Associates Inc Nashua NH	603-885-4321
United Telecontrol Electronics Inc Asbury Park NJ	201-922-1000
Valhalla Scientific Inc San Diego CA	619-457-5576
Vega Precision Labs Vienna VA	703-938-6300
Watkins-Johnson Co Palo Alto CA	415-493-4141
Weinschel Engineering Co Inc Gaithersburg MD	301-948-3434

TEST SYSTEMS, AUTOMATIC CHECKOUT—SONAR

AMETEK Straza Div El Cajon CA	619-442-3451
Computer Sciences Corp El Segundo CA	213-615-0311
Cytec Corp Rochester NY	716-381-4740
Harris Corp Govt Support Sys Div Syosset NY	516-364-0400
Hazeltine Corp Commack NY	516-462-5100
Sonatech Inc Goleta CA	805-683-1431
Wayne Kerr Inc Woburn MA	617-938-8390

TEST SYSTEMS—FLIGHT TEST

**See Communications Systems—Flight Test &
Telemetry**

TEST SYSTEMS—PRODUCTION MACHINES WITH SORTERS OR TRIMMERS

See Machines Listings

INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA	818-991-9614
AED Corp New Brighton MN	612-636-6760
Affiliated Manufacturers Inc North Branch NJ	201-722-7100
Applied Optoelectronic Technology Corp Sunnyvale CA	408-734-2516
A-Systems Inc Charlottesville VA	804-295-7200
Automated Production Concepts Inc Pompton Plains NJ	201-831-8300
Automatic Test Systems Malden MA	617-322-1107
Benton Corp Warrendale PA	412-776-5577
Biddle Instruments-Sensitek Blue Bell PA	215-646-9200
Chicago Laser Systems Inc Chicago IL	312-282-2710
Datatron Inc Tustin CA	714-544-9970
Delta Design Inc San Diego CA	619-292-5000
Electro Scientific Industries Inc Portland OR	503-641-4141
I C Probotics Inc Longwood FL	305-339-8298
International Instrumentation Inc Westlake Village CA	818-991-9614
LTX Corp Westwood MA	617-329-7550
Luther & Maelzer Inc Bedford MA	617-275-4560
LVC Industries Inc Co-Ord Switch Div Freeport NY	516-868-1900
Meissner Industries Dover NJ	201-366-1700
National Telephone & Elctns Inc Miami FL	305-592-0551
Solatron Enterprises Ingewood CA	213-678-4981
Special Systems Inc Silver Spring MD	301-587-2260
Terradyne Inc Boston MA	617-482-2700
Trigon Industries Inc Milpitas CA	408-943-8200
Wayne Kerr Inc Woburn MA	617-938-8390

TEST SYSTEMS, PRODUCTION TEST—AUTOMATIC COMPARATOR

CLARKE-HESS COMMUNICATIONS RESEARCH NEW YORK NY	212-255-2940
ENVIROMARINE SYSTEMS INC LAUREL MD	301-598-8833
INTERNATIONAL INSTRUMENTATION INC WESTLAKE VILLAGE CA	818-991-9614
SCHAEVITZ ENGINEERING PENNSAUKEN NJ	609-662-8000
Accutest Chelmsford MA	617-256-8124
Aerotron Systems Contoocook NH	603-746-4631
Array Analysis Inc Ithaca NY	607-257-6800
A-Systems Inc Charlottesville VA	804-295-7200
Automatic Test Systems Malden MA	617-322-1107
Benton Corp Warrendale PA	412-776-5577
B & F Instruments Div FX Sys Corp Kingston NY	914-338-0515
Biddle Instruments-Sensitek Blue Bell PA	215-646-9200
CEI Corp Londonderry NH	800-DCPOWER
Cirris Systems Corp Salt Lake City UT	801-466-6600
Clarke-Hess Communications Research New York NY	212-255-2940
Colorado Data Systems Inc Englewood CO	800-237-2831
Computer Sciences Corp El Segundo CA	213-615-0311
Cytec Corp Rochester NY	716-381-4740
Dataprobe Inc Palisades Park NJ	201-947-9500
Datatron Inc Tustin CA	714-544-9970
Daytron Corp Miamisburg OH	513-866-3300
DigiTec Dayton OH	513-254-6251
Dit-Mco International Kansas City MO	816-444-9700
Eaton Corp Elctn Inst Div Ronkonkoma NY	516-588-3600
Electro Scientific Industries Inc Portland OR	503-641-4141
Engineering Design Denver CO	303-427-1955
Enviromarine Systems Inc Laurel MD	301-598-8833
Factron/Schlumberger Latham NY	518-783-3600
Gen Rad Inc Waltham MA	617-369-4400
Goodyear Aerospace Corp Akron OH	216-796-2121
Hewlett-Packard Palo Alto CA	415-857-8000
Himmelstein & Co S Hoffman Estates IL	312-843-3300
Hollex Inc Melrose MA	617-665-2413
Inficon Leybold-Heraeus Inc East Syracuse NY	315-437-0377
Intelligent Controls Inc Saco ME	207-283-0156
Interface Engineering Inc Stoughton MA	617-344-7383
International Instrumentation Inc Westlake Village CA	818-991-9614
Lockheed-Georgia Co Marietta GA	404-424-4914
Mastech Inc West Peabody MA	617-535-7490
MTS Systems Corp Minneapolis MN	612-937-4000
National Telephone & Elctns Inc Miami FL	305-592-0551
Optimized Devices Inc Pleasantville NY	914-769-6100
Probe-Rite Inc Santa Clara CA	408-727-0100
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Reliability Inc Houston TX	713-492-0550
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Sage Enterprises Inc Mt View CA	415-969-5111
Schaevitz Engineering Pennsauken NJ	609-662-8000
Special Systems Inc Silver Spring MD	301-587-2260
Spectron Engineering Inc Denver CO	303-623-8987
Stocker & Yale Inc Beverly MA	617-927-3940
Tektronix Inc Beaverton OR	800-547-6711
Telesis Controls Corp Chillum OH	614-642-3200
Teradyne Inc Boston MA	617-482-2700
Tidewater Technological Inc Newport News VA	804-874-2800
Valhalla Scientific Inc San Diego CA	619-457-5576
Wandel & Goltermann Inc Research Triangle Pk NC	919-544-8450
Wayne Kerr Inc Woburn MA	617-938-8390
Webb Co Jervis B Farmington Hills MI	313-553-1220
Wehman Test-Systems Inc Medford NJ	609-953-1784
Weinschel Engineering Co Inc Gaithersburg MD	301-948-3434
Zehntel Inc Walnut Creek CA	415-946-0400

TEST SYSTEMS, PRODUCTION TEST—COMPUTER CONTROLLED

ENVIROMARINE SYSTEMS INC LAUREL MD	301-598-8833
AAI Corp Baltimore MD	301-666-1400
Accutest Chelmsford MA	617-256-8124
ADAC Corporation Woburn MA	617-935-6668
Aerotron Systems Contoocook NH	603-746-4631
Allied Corp Bendix Commun Div Baltimore MD	301-583-4000
Antona Corp W Los Angeles CA	213-473-8995
Applied Circuit Technology Anaheim CA	714-632-9230
Applied Optoelectronic Technology Corp Sunnyvale CA	408-734-2516
Array Analysis Inc Ithaca NY	607-257-6800
Artronics Corp Danvers MA	617-777-2880
A-Systems Inc Charlottesville VA	804-295-7200
Audio Precision Inc Beaverton OR	503-297-4837
Automatic Test Systems Malden MA	617-322-1107
Bendix Corp Fluid Power Div Utica NY	315-797-2500
Benton Corp Warrendale PA	412-776-5577
B & F Instruments Div FX Sys Corp Kingston NY	914-338-0515
Biddle Instruments-Sensitek Blue Bell PA	215-646-9200
Cadic Inc Beaverton OR	503-626-7902
California Data Corp Newbury Park CA	805-498-3651
California Instruments San Diego CA	619-279-8620
Carco Electronics Menlo Park CA	415-321-8174
Chicago Laser Systems Inc Chicago IL	312-282-2710
Colorado Data Systems Inc Englewood CO	800-237-2831
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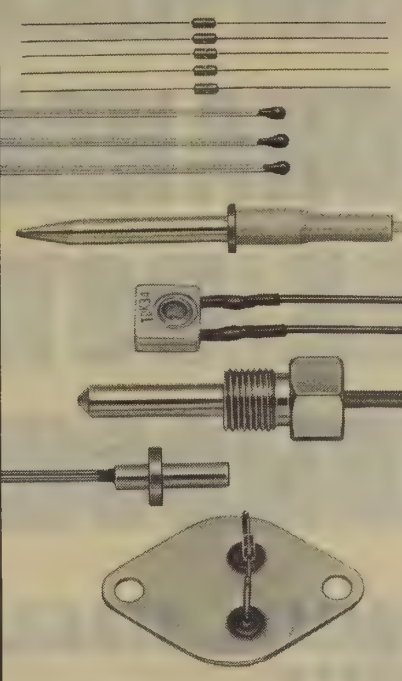
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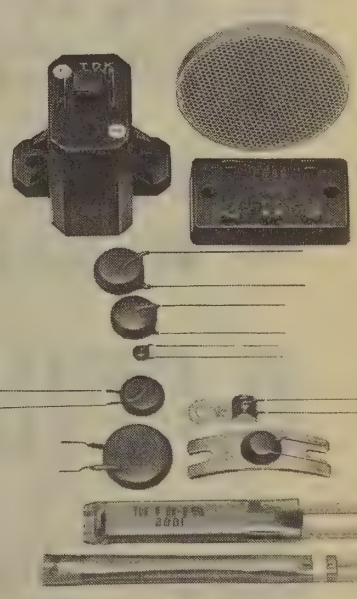
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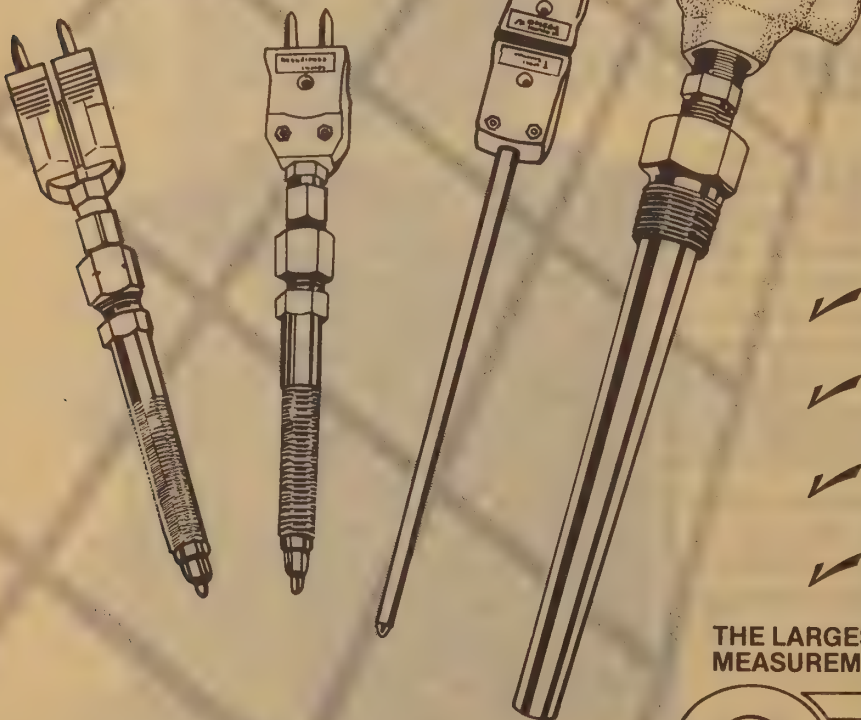
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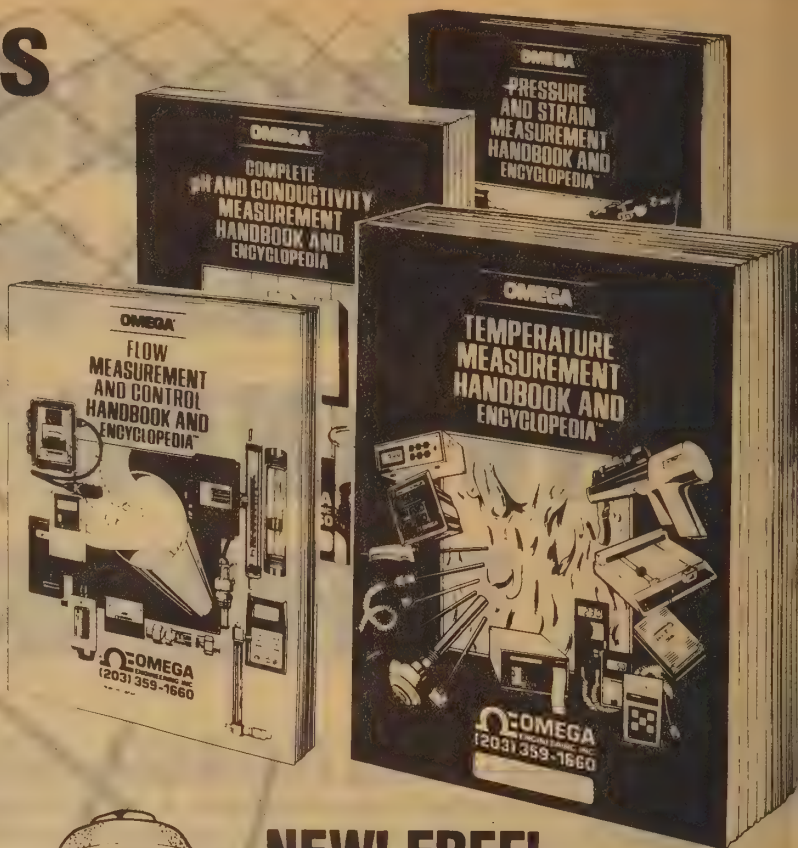
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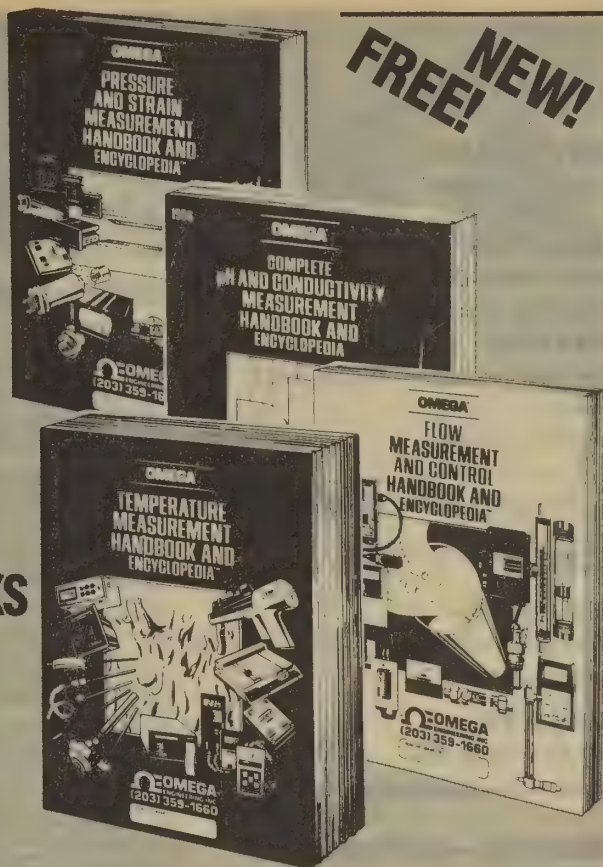
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Gordon Co Claud S Richmond IL	815-678-2211
Granville-Phillips Co Boulder CO	303-443-7660
Heraeus-Volkert Inc Queens Village NY	718-464-8400
Hy-Cal Engineering El Monte CA	818-444-4000
International Thermal Instrument Co	
Del Mar CA	619-755-4436
Nanmac Corp Framingham Centre MA	617-872-4811
Omega Engineering Inc Stamford CT	203-359-1660

Sensitive Research Instruments Mt Vernon NY.....	914-699-9717
Sparrell Engineering Research Corp Damariscotta ME.....	207-563-3224
Temp-Pro Inc Northampton MA.....	413-584-3165
Thermo-Couple Products Co Inc Winfield IL.....	312-653-1400
Vacuum Products Inc Mt Vernon NY.....	914-664-7330
Veeco/Industrial Equip Div Plainview NY.....	516-349-8300

THERMOCOUPLE WIRE

See Wire—Thermocouple

THERMOELECTRIC
GENERATORS—CURRENT
MEASURING (THERMAL
CONVERTERS)

See Also Power Generators—Thermoelectric &

Thermionic

Best Electric Div Harry Levinson Co Seattle WA.....	206-382-1300
International Thermal Instrument Co Del Mar CA.....	619-755-4436
Kurz Instruments Inc Carmel Valley CA.....	408-659-3421
Lake Systems Corp Newton MA.....	617-244-6881
Marlow Industries Inc Garland TX.....	214-494-2521
Midland-Ross Corp Electronic Connector Div Cambridge MA.....	617-491-5400

THERMOELECTRIC
GENERATORS—POWER

See Power Generators

THERMOELECTRIC
MODULES—COOLING

See Cooling Units—Thermoelectric Modules

THERMOMETERS—RESISTANCE,
IMMERSION

OMEGA ENGINEERING INC STAMFORD CT.....	203-359-1660
ADV PG Gatefold	
QUANTEM CORP TRENTON NJ.....	609-883-9191
ADV PG 137	
RCD COMPONENTS INC MANCHESTER NH.....	603-669-0054
TEXMATE INC SOLANA BEACH CA.....	619-481-7177
ADV PGS 268,269	
Alpha-M Corp Eulless TX.....	817-267-7022
Amprobe Instrument Div Core Indus Inc Lynbrook NY.....	516-593-5600
Andonian Cryogenics Inc Newtonville MA.....	617-969-8010
ARI Industries Inc Addison IL.....	312-953-9100
Atkins Technical Inc Gainesville FL.....	904-378-5555
Bayley Instrument Co Kenwood CA.....	707-833-6014
Burns Engineering Inc Minnetonka MN.....	612-935-4400
Caltemp Instrument Inc Escondido CA.....	714-743-2800
Caspar Integrated Systems Inc Fort Bragg CA.....	707-964-4109
Conax Buffalo Corp Buffalo NY.....	716-684-4500
C-Temp Inc Anaheim CA.....	714-630-8451
Degussa Corp So Plainfield NJ.....	201-757-6500
DigiTec Dayton OH.....	513-254-6251
Electric Tachometer Corp Philadelphia PA.....	215-726-7723
Electromatic Equipment Co Inc Cedarhurst NY.....	516-295-4300
Electronic Development Labs Inc Hauppauge NY.....	516-435-2808
Elcor Associates Morris Plains NJ.....	201-299-1615
Elnik Instruments Inc Fairfield NJ.....	201-882-8033
Enercorp Instruments Ltd Islington ON.....	416-231-5335
The Foxboro Co Foxboro MA.....	617-543-8750
Gordon Co Claud S Richmond IL.....	815-678-2211
Guidline Instruments Inc Orlando FL.....	305-423-8215
Hades Mfg Corp Farmingdale NY.....	516-249-4244
Harrel Inc East Norwalk CT.....	203-866-2573
Heraeus-Volkert Inc Queens Village NY.....	718-464-8400
Honeywell Process Control Div Ft Washington PA.....	215-641-3000
Hy-Cal Engineering El Monte CA.....	818-444-4000
Keithley Instruments Inc Cleveland OH.....	216-248-0400
Keystone Carbon Co Thermistor Div St Marys PA.....	814-781-1591
Larson Instrument Co Inc Orangeburg NY.....	914-359-3800
Leeds & Northrup Instruments North Wales PA.....	215-643-2000
Love Controls Corp Wheeling IL.....	312-541-3232
Mag-Con Inc St Paul MN.....	612-633-8820
Midwest Components Inc Muskegon MI.....	616-777-2602
Minco Products Inc Minneapolis MN.....	612-571-3121
North American Soar Corp Cherry Hill NJ.....	609-488-1060
Omega Engineering Inc Stamford CT.....	203-359-1660
Pacer Industries Inc Chippewa Falls WI.....	715-723-1141
Precision Digital Corp Watertown MA.....	617-924-2256
Pycnic Penndel PA.....	215-757-3704
Quantem Corp Trenton NJ.....	609-883-9191
RCD Components Inc Manchester NH.....	603-669-0054
RdF Corp Hudson NH.....	603-882-5195
Scientific Instruments Inc West Palm Beach FL.....	305-659-5885
Solder Absorbing Technology Springfield MA.....	413-788-6191
Solomat Corp Stamford CT.....	203-348-9700

Syscon International Inc South Bend IN.....	219-232-3900
Taylor Scientific Instruments Arden NC.....	704-684-8111
Temp-Pro Inc Northampton MA.....	413-584-3165
Texmate Inc Solana Beach CA.....	619-481-7177
Thermo-Couple Products Co Inc Winfield IL.....	312-653-1400
Thermo Electric Co Inc Saddle Brook NJ.....	201-843-5800
United Electric Controls Co Watertown MA.....	617-926-1000
Wahl Instruments Inc Culver City CA.....	213-641-6931
Waller Corp Crystal Lake IL.....	815-459-6510
Weed Instrument Co Inc Round Rock TX.....	512-255-7043
West Coast Research Corp Los Angeles CA.....	213-478-8833
Winland Electronics Inc Mankato MN.....	507-625-7231
Yellow Springs Instrument Co Inc Yellow Springs OH.....	513-767-7241

THERMOMETERS—RESISTANCE,
SURFACE

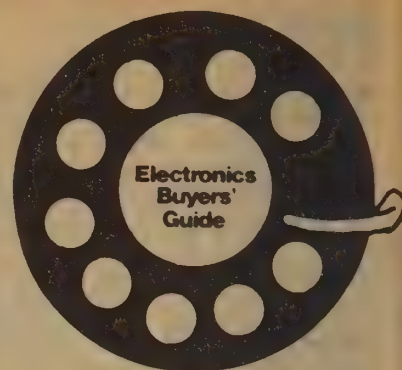
MICRO ELECTRONIC SYSTEMS INC BROOKFIELD CT.....	203-775-1440
OMEGA ENGINEERING INC STAMFORD CT.....	203-359-1660
ADV PG Gatefold	
QUANTEM CORP TRENTON NJ.....	609-883-9191
ADV PG 137	
Advantest Corp Tokyo Japan.....	03-342-7500
Amprobe Instrument Div Core Indus Inc Lynbrook NY.....	516-593-5600
ARI Industries Inc Addison IL.....	312-953-9100
Atkins Technical Inc Gainesville FL.....	904-378-5555
Bacharach Inc Pittsburgh PA.....	412-963-2000
Burns Engineering Inc Minnetonka MN.....	612-935-4400
Caltemp Instrument Inc Escondido CA.....	714-743-2800
Caspar Integrated Systems Inc Fort Bragg CA.....	707-964-4109
Conax Buffalo Corp Buffalo NY.....	716-684-4500
Cox & Company Inc New York NY.....	212-674-4727
C-Temp Inc Anaheim CA.....	714-630-8451
Degussa Corp So Plainfield NJ.....	201-757-6500
Dentronics Inc Hackensack NJ.....	201-343-9405
DigiTec Dayton OH.....	513-254-6251
Electric Tachometer Corp Philadelphia PA.....	215-726-7723
Electromatic Equipment Co Inc Cedarhurst NY.....	516-295-4300
Electronic Development Labs Inc Hauppauge NY.....	516-435-2808
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Enercorp Instruments Ltd Islington ON.....	416-231-5335
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Temp-Pro Inc Northampton MA.....	413-584-3165
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Weed Instrument Co Inc Round Rock TX.....	512-255-7043
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THERMOPILES—MEASURING

See Also Power Generators—Thermoelectric &

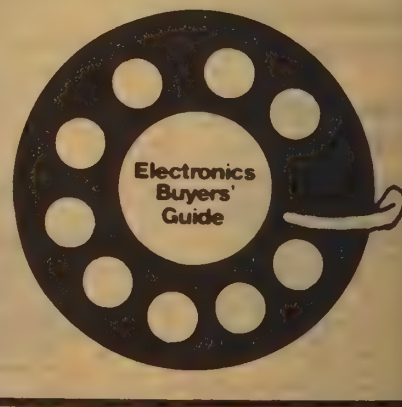
Thermionic

OMEGA ENGINEERING INC STAMFORD CT.....	203-359-1660
ADV PG Gatefold	
Best Electric Div Harry Levinson Co Seattle WA.....	206-382-1300
Dexter Research Center Inc Dexter MI.....	313-426-3921
Electronic Development Labs Inc Hauppauge NY.....	516-435-2808
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Kahl Scientific Instrument Corp El Cajon CA.....	619-444-2158
Leeds & Northrup Instruments North Wales PA.....	215-643-2000
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Omega Engineering Inc Stamford CT.....	203-359-1660
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Syscon International Inc South Bend IN.....	219-232-3900
Temp-Pro Inc Northampton MA.....	413-584-3165

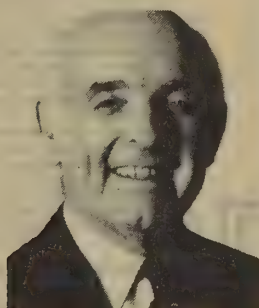


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Canadian Thermostats & Control Devices Montreal PQ	514-739-32
Chatham Controls Corp Chatham NJ	201-635-88
Cox & Company Inc New York NY	212-674-47
Dreeds Switch Inc Waukegan IL	800-323-96
Eaton Corp/Cutler-Hammer Products Milwaukee WI.....	414-449-60
Elmwood Sensors Inc Pawtucket RI.....	401-727-13
Enercorp Instruments Ltd Islington ON	416-231-53
Fenwal Inc Ashland MA	617-851-20
Hi-Stat Mfg Co Inc Lexington OH	419-884-12
Hy-Cal Engineering El Monte CA	818-444-18
Kollmorgen Corp PCK Technology Div Melville NY.....	516-454-44
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Mountain West Alarm Supply Co Phoenix AZ.....	602-263-88
Princo Instruments Inc Southampton PA	215-355-15
Selco Products Co Buena Park CA	213-921-69
Springfield Wire Inc Springfield MA.....	413-781-69
Stancor Products/Hamilton Standard Controls Logansport IN.....	219-722-22
Sunne Controls Div Peco Inc Portland OR	503-233-64
Therm-O-Disc Inc Mansfield OH	419-756-59
Ulanet Co, George Newark NJ	201-589-48
Vapor Corp Chicago IL.....	312-631-92
Vernay Lab Inc Yellow Springs OH	513-767-72
Vulcan Electric Co Kezar Falls ME	207-625-32
Winland Electronics Inc Mankato MN	507-625-72

THICK-FILM CIRCUITS

See ICs Listings; Printed Circuits—Ceramic

THICK-FILM PRINTING EQUIPMENT & MATERIALS

See Silk Screen Listings; Substrates

THICKNESS CONTROLS

See Controls

THIN-FILM CIRCUITS

See ICs Listings

THORIA CERAMICS

See Ceramic Listings

THORIUM

See Chemicals—Electron Tube

THYRATRONS

See Tubes

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ADV PG 479	
AEG Corporation Somerville NJ.....	201-722-980
Motorola Semiconductor Products Inc Phoenix AZ.....	602-244-690
RMC Power Semiconductor Div Broomfield CO	303-469-188

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ADV PG 162	
PHILIPS ECG INC WALTHAM MA.....	617-890-610
ADV PG 479	
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American Microsemiconductor Inc Madison NJ.....	201-377-956
Motorola Semiconductor Products Inc Phoenix AZ.....	602-244-690
Phillips ECG Inc Waltham MA.....	617-890-610
Raytheon TAG Semiconductors Ltd Burlington MA.....	617-272-370
RCA Solid State Div Somerville NJ.....	201-685-600
Tecor Semiconductors Irving TX.....	214-252-765

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ADV PG 479	
AEG Corporation Somerville NJ.....	201-722-980
Amperex Electronic Corp Smithfield RI.....	401-762-380
Argent Industries Inc Englewood OH	513-836-863

Motorola Semiconductor Products Inc	
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Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
RMC Power Semiconductor Div	
Broomfield CO	303-469-1883
Semiconductor Products Inc Lawrence MA	617-686-0197

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AMERICAN MICROSEMICONDUCTOR INC	
MADISON NJ	201-377-9566
ADV PG 162	
PHILIPS ECG INC WALTHAM MA	617-890-6107
ADV PG 479	
Advanced Semiconductor Inc	
North Hollywood CA	818-982-1202
AEG Corporation Somerville NJ	201-722-9800
American Microsemiconductor Inc	
Madison NJ	201-377-9566
Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Raytheon TAG Semiconductors Ltd	
Burlington MA	617-272-3704
Semiconductor Products Inc Lawrence MA	617-686-0197

THYRISTORS—SILICON-CONTROLLED RECTIFIERS (SCRS)

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ADV PG 479	
AMERICAN MICROSEMICONDUCTOR INC	
MADISON NJ	201-377-9566
ADV PG 162	
INTERNATIONAL RECTIFIER SEMICONDUCTOR DIV	
EL SEGUNDO CA	213-772-2000
ADV PG 478	
PHILIPS ECG INC WALTHAM MA	617-890-6107
ADV PG 479	
POWEREX INC YOUNGWOOD PA	412-925-7272
ADV PG 478	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
UNITRODE CORP LEXINGTON MA	617-861-6540
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AEG Corporation Somerville NJ	201-722-9800
American Microsemiconductor Inc	
Madison NJ	201-377-9566
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Gates Electronic Co Inc Bronx NY	212-881-5900
Gentron Corp Milwaukee WI	414-351-1660
Green Rectifier Corp Nutley NJ	201-667-8721
Holmes Co Carl E Los Angeles CA	213-256-2255
International Devices Div Pacesetter Elctns	
Anaheim CA	714-777-4711
International Rectifier Semiconductor Div	
El Segundo CA	213-772-2000
Lectron Industries Inc Roselle NJ	201-245-5858
Megatran Electronic Power Bordentown NJ	609-298-7300
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
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Rapid Electric Co Inc Brookfield CT	800-332-1111
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RCA Distr & Special Prods Div Deptford NJ	609-541-3636
RCA Solid State Div Somerville NJ	201-685-6000
RI/Control Systems Div Research Inc	
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Semiconductor Products Inc Lawrence MA	617-686-0197
Semikron Inc Hudson NH	603-883-8102
Shokai Far East Ltd Hartsdale NY	914-681-0700
Solid State Devices Inc La Mirada CA	213-921-9660
S T Semicon Inc Bloomington IN	812-332-1435
Tecor Semiconductors Irving TX	214-252-7651
Texas Instruments Optoelectronics Dallas TX	214-995-6611
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ADV PG 479	
AEG Corporation Somerville NJ	201-722-9800
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Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div	
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ADV PG 162	
PHILIPS ECG INC WALTHAM MA	617-890-6107
ADV PG 479	
UNITRODE CORP LEXINGTON MA	617-861-6540
Advanced Semiconductor Inc	
North Hollywood CA	818-982-1202
AEG Corporation Somerville NJ	201-722-9800
American Microsemiconductor Inc	
Madison NJ	201-377-9566
Amperex Electronic Corp Smithfield RI	401-762-3800
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Raytheon TAG Semiconductors Ltd	
Burlington MA	617-272-3704
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
RCA Solid State Div Somerville NJ	201-685-6000
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Tecor Semiconductors Irving TX	214-252-7651
Texas Instruments Optoelectronics Dallas TX	214-995-6611
Unitrode Corp Lexington MA	617-861-6540

TIES

See Wire & Cable Ties

TIME CALIBRATION SERVICES

See Calibration Services

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Base Ten Systems Inc Trenton NJ	609-586-7010
Borg Instruments Inc Delavan WI	414-728-5531
Bristol Saybrook Co Div Pratt-Read Corp	
Old Saybrook CT	203-388-3414
Chrono-Log Corp Havertown PA	215-853-1130
Datathon Inc Anaheim CA	714-751-2211
Datum Inc Timing/AACOM Divs Anaheim CA	714-533-6333
ESE El Segundo CA	213-322-2136
FOP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Kinematics/True Time Santa Rosa CA	707-528-1230
Kode Inc Tustin CA	714-730-6901
K-Systems Inc Las Cruces NM	505-526-3209
Leasametric Inc Foster City CA	415-574-4441
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Sony Communications Prods Co	
Park Ridge NJ	201-930-1000
Tektronix Inc Beaverton OR	800-547-6711
Teledyne Geotech Garland TX	214-271-2561
Trak Systems Div Trak Microwave Corp	
Tampa FL	813-884-1411
UFI Morro Bay CA	805-772-1203
Vicon Industries Inc Melville NY	516-293-2200
Wide Range Electronics Corp St Louis MO	314-343-9191

TIME CODE RECEIVERS

See Receivers, Radio Communications—WWV

TIME DELAYS

See Delay Listings

TIME INDICATORS—ELAPSED TIME

See Indicators—Elapsed Time

TIMERS—COIN OPERATED

Airpax Corp Frederick Div Frederick MD	301-663-5141
Amperite Co Inc Union City NJ	201-864-9503
Artisan Electronics Corp Parsippany NJ	201-887-7100
Bristol Saybrook Co Div Pratt-Read Corp	
Old Saybrook CT	203-388-3414
Detroit Controls Div Detroit Corp	
Milwaukee WI	414-671-6800
Master Electronic Controls Los Angeles CA	213-452-1336
Rhodes Inc M H Avon CT	203-673-3281
SSAC Inc Liverpool NY	315-622-1000
Syracuse Electronics Syracuse NY	315-488-4911
Venator Systems Inc San Jose CA	408-262-7788

TIMERS—ELECTROCHEMICAL

CURTIS INSTRUMENTS INC	
MT KISCO NY	914-666-2971
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Accudyne Corp Janesville WI	608-752-9081
Curtis Instruments Inc Mt Kisco NY	914-666-2971
Eagle Signal Controls Div Wickes Mfg Co	
Austin TX	512-837-8300

ECO Instruments Div Sea Data Corp	
Newton MA	617-964-8360
Fredericks Co Huntingdon Valley PA	215-947-2500
Master Electronic Controls Los Angeles CA	213-452-1336
Pacific Electron Corp Santa Ana CA	714-546-4405
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Plessey Electric-Products Los Angeles CA	213-390-3585
Raymond Engineering Inc Middletown CT	203-632-1000
Sager Hingham MA	617-749-6700
Sela Electronics Inc New York NY	212-787-7925

TIMERS—ELECTROMECHANICAL

ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434,435	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Abrams Instrument Corp Lansing MI	517-332-6405
Amerace Corp Hackettstown NJ	201-852-1122
American Control Prods Div Precision Timer Co Inc	
Westbrook CT	203-399-6253
Amperite Co Inc Union City NJ	201-864-9503
Anasco Corp Wakefield MA	617-246-3300
Automatic Timing & Controls Co	
King of Prussia PA	800-441-8245
Autotrol Corp Crystal Lake IL	815-459-3080
Bendix Corp Fluid Power Div Utica NY	315-797-2500
Borg Instruments Inc Delavan WI	414-728-5531
Bristol Saybrook Co Div Pratt-Read Corp	
Old Saybrook CT	203-388-3414
Crouzet Controls Inc Schaumburg IL	312-843-2200
Detroit Controls Div Detroit Corp	
Milwaukee WI	414-671-6800
Dimco-Gray Co Centerville OH	513-433-7600
Eagle Signal Controls Div Wickes Mfg Co	
Austin TX	512-837-8300
Electric Switches Inc Los Angeles CA	213-660-1310
Electrodynamics Inc A Talley Indus Co	
Rolling Meadows IL	312-259-0740
E N M Co Chicago IL	312-794-6150
GCA/Instruments & Equip Group Chicago IL	312-227-2660
Haydon Switch & Instrument Inc	
Waterbury CT	203-756-7441
HIG Co Inc Hartford CT	203-522-8600
IDEC Systems & Controls Corp	
Santa Clara CA	408-988-7500
Industrial Timer Co Haydon Switch Inst Inc	
Waterbury CT	203-753-2487
I/O Industries Inc Eatontown NJ	201-542-5151
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
Lab-Line Instruments Inc Melrose Park IL	312-450-2600
LSI Avionic Sys Corp Sub Lear Siegler Inc	
Florham Park NJ	201-822-1300
Mallory Timers Co Indianapolis IN	317-636-5353
Master Electronic Controls Los Angeles CA	213-452-1336
MEKontrol Inc Northboro MA	617-393-2451
Microavionics Costa Mesa CA	714-957-6904
Midland-Ross Corp Midtex Div	
North Mankato MN	507-625-6521
Ocean Technology Inc Burbank CA	213-849-7111
Omron Electronics Inc Schaumburg IL	312-843-7900
Original Electric Mfg Co Inc Middlesex NJ	201-271-5770
Potter & Brumfield Div AMF Inc Princeton IN	212-386-1000
Raymond Engineering Inc Middletown CT	203-632-1000
Rhodes Inc M H Avon CT	203-673-3281
Ripley Co Inc Cromwell CT	203-635-2200
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Singer Co Controls Div Schiller Pk IL	312-678-4150
Square D Co Palatine IL	312-397-2600
SSAC Inc Liverpool NY	315-622-1000
Struthers-Dunn Inc Pitman NJ	609-589-7500
Syracuse Electronics Syracuse NY	315-488-4911
Tenor Co Inc New Berlin WI	414-782-3800
Timeco Inc Huntington WV	304-523-5149
Tork-O-Matic Inc Danville IL	217-442-0611
Tork Inc Mt Vernon NY	914-664-3542
Trumeter Co Inc New York NY	212-564-0666

TIMERS—ELECTRON TUBE

Amperite Co Inc Union City NJ	201-864-9503
Associates Electronics & Mfg Corp	
Upper Montclair NJ	201-783-7800
Lektralab Technologies Inc College Point NY	212-939-7171
Master Electronic Controls Los Angeles CA	213-452-1336
PPM Inc Cleveland OH	216-292-6006
Timeco Inc Huntington WV	304-523-5149

TIMERS—INTERVAL & RESET

See Timers—Synchronous, Motor Operated

TIMERS—PRINTING, MULTICHANNEL

Columbus Instruments Intl Corp	
Columbus OH	614-488-6176
Master Electronic Controls Los Angeles CA	213-452-1336
PPM Inc Cleveland OH	216-292-6006

TIMERS—SOLID STATE

See Also Clocks—Digital

ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
DCI INC OLATHE KS	913-782-5672
ADV PGS 270	
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434,435	
NORTHWEST MICROCIRCUITS INC	
CORVALLIS OR	503-753-8242
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SOLID STATE ELECTRONICS CORP	
NORTHIDGE CA	818-993-8257
TEAPO ELECTRONIC CORP OF AMERICA	
NORCROSS GA	404-449-0034
TELEDYNE GEOTECH GARLAND TX	214-271-2561
Abrams Instrument Corp Lansing MI	517-332-6405
A C D Corp Dayton OH	513-222-2600
Advance Industries Div Overhead Door Corp	
Appleton WI	414-739-6121
Air-O-Tronics Div Trush Inc Cazenovia NY	315-655-2387
Allen-Bradley Co Milwaukee WI	414-382-2000
Amerace Corp Hackettstown NJ	201-852-1122
American Control Prods Div Precision Timer Co Inc	
Westbrook CT	203-399-6253
Anasco Corp Wakefield MA	617-246-3300
Applied Electro Technology Int Santa Ana CA	714-556-6570
Artisan Electronics Corp Parsippany NJ	201-887-7100
Automatic Timing & Controls Co	
King of Prussia PA	800-441-8245
Autronics Corp Arcadia CA	818-445-5470
Babcock Inc Orange CA	714-633-3700
Bayside Controls Clifton NJ	201-778-6611
Bendix Corp Fluid Power Div Utica NY	315-797-2500
Betatronics Inc Lincolnwood IL	312-676-1747
Borg Instruments Inc Delavan WI	414-728-5531
Catalyst Research Baltimore MD	301-296-7000
Chrono-Log Corp Havertown PA	215-853-1130
Columbus Instruments Intl Corp	
Columbus OH	614-488-6176
Crouzet Controls Inc Schaumburg IL	312-843-2200
C-Tek Inc Wakefield MA	617-246-1720
Cybernetic Micro Systems Inc	
San Gregorio CA	415-726-3000
Dantronics Inc St Paul MN	612-484-2108
Datatron Labs Inc Sussex NJ	914-856-4313
Datum Inc Timing/AACOM Divs Anaheim CA	714-533-6333
DCI Inc Olathe KS	913-782-5672
De-Tec-Tronic Corp Elgin IL	312-695-9150
Digi-Tec Dayton OH	513-254-6251
Discon Electronics Inc Pompano Beach FL	305-782-7424
Durgin & Browne Inc S Burlington VT	802-863-6873
Dynapar Corp Gurnee IL	312-662-2666
Eagle Signal Controls Div Wickes Mfg Co	
Austin TX	512-837-8300
Eaton Corp/Cutler-Hammer Products	
Milwaukee WI	414-449-6000
EG & G Ortec Oak Ridge TN	615-482-4411
Electric Switches Inc Los Angeles CA	213-660-1310
Electrodynamics Inc A Talley Indus Co	
Rolling Meadows IL	312-259-0740
Electromatic Controls Corp	
Hoffman Estates IL	312-882-5757
Electromatic Equipment Co Inc	
Cedarhurst NY	516-295-4300
Electronic Counters & Controls Inc	
Mundelein IL	312-362-8910
E N M Co Chicago IL	312-794-6150
ESE El Segundo CA	312-322-2136
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
FSI/Fork Standards Inc Lombard IL	312-932-9380
Furnas Electric Co Batavia IL	312-879-6000
GCA/Instruments & Equip Group Chicago IL	312-227-2660
Hardman Incorporated Belleville NJ	201-751-3000
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
HIG Co Inc Hartford CT	203-522-8600
Honeywell Inc IPC Div York PA	717-848-1151
Instrumentation & Control Systems Inc	
Addison IL	312-543-6200
Instrument Research Co Santa Barbara CA	805-962-8336
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
Keystone Carbon Co Thermistor Div	
St Marys PA	814-781-1591
Lektralab Technologies Inc College Point NY	212-939-7171
Lektralab Enterprises Inc San Diego CA	619-566-5656
Logitek Inc Ronkonoma NY	516-467-4200
LSI Avionic Sys Corp Sub Lear Siegler Inc	
Florham Park NJ	201-822-1300
Macromatic Inc Chicago IL	312-286-7977
Mallory Timers Co Indianapolis IN	317-636-5353
Master Electronic Controls Los Angeles CA	213-452-1336
MEKontrol Inc Northboro MA	617-393-2451
Microavionics Costa Mesa CA	714-957-6904
MKC Electronics Corp Kansas City KS	913-371-1351
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
National Semiconductor Corp Santa Clara CA	408-721-5000
NES Inc Carpentersville IL	312-426-5900
Northwest Microcircuits Inc Corvallis OR	503-753-8242
Omron Electronics Inc Schaumburg IL	312-843-7900
Pacific Electro Dynamics Inc Redmond WA	206-881-1700
Parko Electronics Co Inc Irvine CA	714-660-8014
Potter & Brumfield Div AMF Inc Princeton IN	212-386-1000
PPM Inc Cleveland OH	216-292-6006
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Raymond Engineering Inc Middletown CT	203-632-1000
Red Lion Controls York PA	717-767-6511
Ripley Co Inc Cromwell CT	203-635-2200
Sager Hingham MA	617-749-6700
SAS Systems Inc Norcross GA	404-448-4190
Scanning Devices Inc Waltham MA	617-891-8991
Soderberg Mfg Co Inc Walnut CA	714-695-1291
Solid State Electronics Corp Northridge CA	818-993-8257
Square D Co Palatine IL	312-397-2600

SSAC Inc Liverpool NY	315-622-1000
States Co Div Multi-Amp Corp Dallas TX	214-333-3200
Struthers-Dunn Inc Pitman NJ	609-589-7500
Syracuse Electronics Syracuse NY	315-488-4911
Teapo Electronic Corp of America	
Norcross GA	404-449-0034
Teledyne Geotech Garland TX	214-271-2561
Tenor Co Inc New Berlin WI	414-782-3800
Thorderson Meissner Inc Mt Carmel IL	618-262-5121
Timeco Inc Huntington WV	304-523-5149
Tork Inc Mt Vernon NY	914-664-3542
Torpey Controls & Engineering Ltd	
Scarborough ON	416-298-7788
Tylan Corp Carson CA	213-518-3611
Vanguard Relay Corp Warwick RI	401-732-0071
Veeder-Root Hartford CT	203-527-7731
Wes-Garde Components Group Inc	
Hartford CT	203-525-6900
Wilmar Electronics Inc Torrance CA	213-326-6666
Xanadu Controls Div Electrod Corp	
Springfield NJ	201-467-8100

TIMERS—SYNCHRONOUS, MOTOR OPERATED

ALLEN-BRADLEY CO MILWAUKEE WI	414-382-2000
ELECTRIC SWITCHES INC	
LOS ANGELES CA	213-660-1310
ADV PGS 434,435	
TEAPO ELECTRONIC CORP OF AMERICA	
NORCROSS GA	404-449-0034
Abrams Instrument Corp Lansing MI	517-332-6405
Allen-Bradley Co Milwaukee WI	414-382-2000
American Control Prods Div Precision Timer Co Inc	
Westbrook CT	203-399-6253
Autotrol Corp Crystal Lake IL	815-459-3080
Borg Instruments Inc Delavan WI	414-728-5531
Bristol Saybrook Co Div Pratt-Read Corp	
Old Saybrook CT	203-388-3414
Crouzet Controls Inc Schaumburg IL	312-843-2200
Detroit Controls Div Detroit Corp	
Milwaukee WI	414-671-6800
Dimco-Gray Co Centerville OH	513-433-7600
Eagle Signal Controls Div Wickes Mfg Co	
Austin TX	512-837-8300
Electric Switches Inc Los Angeles CA	213-660-1310
Electric Tachometer Corp Philadelphia PA	215-726-7723
E N M Co Chicago IL	312-794-6150
Haydon Switch & Instrument Inc	
Waterbury CT	203-756-7441
Industrial Timer Co Haydon Switch Inst Inc	
Waterbury CT	203-753-2487
Instrumentation & Control Systems Inc	
Addison IL	312-543-6200
I/O Industries Inc Eatontown NJ	201-542-5151
Kessler-Ellis Products Co	
Atlantic Highlands NJ	201-291-0500
Mallory Timers Co Indianapolis IN	317-636-5353
Microavionics Costa Mesa CA	714-957-6904
Midland-Ross Corp Midtex Div	
North Mankato MN	507-625-6521
Omron Electronics Inc Schaumburg IL	312-843-7900
Ripley Co Inc Cromwell CT	203-635-2200
Singer Co Controls Div Schiller Pk IL	312-678-4150
Struthers-Dunn Inc Pitman NJ	609-589-7500
Teapo Electronic Corp of America	
Norcross GA	404-449-0034
Tenor Co Inc New Berlin WI	414-782-3800
Tork Inc Mt Vernon NY	914-664-3542
Trumeter Co Inc New York NY	212-564-0666

TIMERS—WELDING, ELECTRONIC

Air-O-Tronics Div Trush Inc Cazenovia NY	315-655-2387
Amperite Co Inc Union City NJ	201-864-9503
Artisan Electronics Corp Parsippany NJ	201-887-7100
Falstrom Co Passaic NJ	201-777-0013
Instrumentation & Control Systems Inc	
Addison IL	312-543-6200
Master Electronic Controls Los Angeles CA	213-452-1336
Merrick Engineering Inc Nashville TN	615-259-9300
Perron Controls Corp Chatsworth CA	818-998-4444
Soiaqui Bros Inc Chicago IL	312-594-3800
Square D Co Palatine IL	312-397-2600
SSAC Inc Liverpool NY	315-622-1000
Syracuse Electronics Syracuse NY	315-488-4911
Timeco Inc Huntington WV	304-523-5149
Xanadu Controls Div Electrod Corp	
Springfield NJ	201-467-8100

TIME STANDARDS

See Standards

TIN

See Metals

TINNETTING SERVICES

See Production Services

TITANATES

See Also Ceramics—Piezoelectric;

Crystals—Piezoelectric

Alpha Industries Inc Woburn MA	617-935-5150
Atomergic Chemetals Corp Plainville NY	516-349-8800

Cotronics Corp Brooklyn NY.....	718-646-7996
Du Pont De Nemours & Co Inc El Chemicals & Pigments Dept Wilmington DE.....	800-441-9442
GTE Lighting Products Danvers MA.....	617-777-1900
Materials Research Corp Orangeburg NY.....	914-359-4200
Reade Metals & Minerals Corp Rumson NJ.....	201-842-2294
Tam Ceramics Inc Niagara Falls NY.....	716-278-9400
United Mineral & Chemical Corp New York NY.....	212-966-4330

TITANIA CERAMICS

See Ceramic Listings

TITANIUM

See Metals; Wire—Bare

PHONE COMMUNICATIONS & TELEMETRY EQUIPMENT

See Communications Telemetry Reference List

TOOLS—CONNECTOR

See Connectors—Tool

TOOLS—CUTTERS (HOLE, GROOVE & SLIT INCL. SAWS)

HUNTER PRODUCTS INC BRIDGEWATER NJ.....	201-526-8440
Electronic Tool Co Inc Pleasantville NY.....	914-769-8070
Foremost Electric Co Div Blackstone Ind Inc Bethel CT.....	203-792-8622
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
Hunter Products Inc Bridgewater NJ.....	201-526-8440
Ideal Industries Inc Sycamore IL.....	815-895-5181
Jilson Corp, The Hackensack NJ.....	201-488-4646
Jonard Industries Corp Tuckahoe NY.....	914-793-0700
Klein Tools Inc Chicago IL.....	312-677-9500
Lear Siegler Inc Santa Monica CA.....	213-452-5444
Martindale Electric Co Cleveland OH.....	216-521-8567
Metal Removal Tooling Div Federal-Mogul Corp Chicago IL.....	312-583-8200
Ripley Co Inc Utility Tool Div Cromwell CT.....	203-635-2200
Simmonds Cutting Tools Household Intl Fitchburg MA.....	617-343-3731
Starrett Co The L S Athol MA.....	617-249-3551
Waldes Truarc Inc Long Island City NY.....	718-392-3100

TOOLS—DESOLDERING

HUNTER PRODUCTS INC BRIDGEWATER NJ.....	201-526-8440
MICRO ELECTRONIC SYSTEMS INC BROOKFIELD CT.....	203-775-1440
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips Air-Vac Engineering Co Milford CT.....	203-874-2541
Assembleonics Inc Brentwood NY.....	516-231-4440
Automated Production Concepts Inc Pompton Plains NJ.....	201-831-8300
Beau Tech Inc Portland ME.....	207-775-6139
Chemtronics Inc Hauppauge NY.....	516-582-3322
Consell Cheshire CT.....	203-272-5750
Easy Electronic Co Fremont CA.....	415-792-1030
Edsyn Inc Van Nuys CA.....	818-989-2324
Electronic Tool Co Inc Pleasantville NY.....	914-769-8070
Enterprise Development Corp Indianapolis IN.....	317-251-1231
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
Henes Products Corp Phoenix AZ.....	602-275-4126
Hexacon Electric Co Roselle Park NJ.....	201-245-6200
Hunter Products Inc Bridgewater NJ.....	201-526-8440
Hunter Tools/Easco Hand Tools Inc Lancaster PA.....	717-285-4581
Jonard Industries Corp Tuckahoe NY.....	914-793-0700
Karnwell Products Co Inc Norwood MA.....	617-762-6922
Macdonald & Co Glendale CA.....	818-241-1101
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Micro Electronic Systems Inc Brookfield CT.....	203-775-1440
O K Industries Bronx NY.....	212-994-6600
Pace Inc Laurel MD.....	801-490-9860
Paladin Corp Newbury Park CA.....	305-499-0318
Park Distributors Inc Bridgeport CT.....	203-366-7200
Plato Products Inc Glendora CA.....	818-967-3821
Royal Soldering Systems Glendale CA.....	213-245-1077
Sager Hingham MA.....	617-749-6700
Solder Absorbing Technology Springfield MA.....	413-788-6191
Solder Removal Co Covina CA.....	818-967-3681
Unger Div Eldon Industries Inc Compton CA.....	213-774-5950
Wahl Clipper Corp Sterling IL.....	815-625-6525

TOOLS—DRAFTING

See Drafting Supplies



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TOOLS—ELECTRONIC TECHNICIAN (WIRE SNIPS, WIRE STRIPPERS, ETC.)

JENSEN TOOLS INC PHOENIX AZ.....	602-968-6241
ADV PG 481 KIN-TRONICS INC YONKERS NY.....	914-968-7736
ADV PGS See Ads In Green Pages MICRO ELECTRONIC SYSTEMS INC BROOKFIELD CT.....	203-775-1440
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips Adre Co Inc Milwaukee WI.....	414-352-3531
Automated Production Concepts Inc Pompton Plains NJ.....	201-831-8300
Blackburn Div FL Industries Sycamore IL.....	815-895-6501
Blonder-Tongue Labs Inc Old Bridge NJ.....	201-679-4000
Buchanan Crimp Tool Products Union NJ.....	201-289-2225
Carpenter Mfg Co Inc Manlius NY.....	315-682-9176
Channellock Inc Meadville PA.....	814-724-8700
Clauss Cutlery Co Fremont OH.....	419-332-7344
Desco Industries Inc Walnut CA.....	714-598-2753
Electronics Warehouse Inc Old Lyme CT.....	203-434-9838
Electronic Tool Co Inc Pleasantville NY.....	914-769-8070
Eraser Co Inc The Syracuse NY.....	315-454-3237
ETM Corp Monrovia CA.....	213-359-8102
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
Grobet File Co of America Inc Carlstadt NJ.....	201-939-6700
Harwil Co Santa Monica CA.....	213-829-2310
Hunter Tools/Easco Hand Tools Inc Lancaster PA.....	717-285-4581
Ideal Industries Inc Sycamore IL.....	815-895-5181
Inmac Santa Clara CA.....	408-727-1970
Jensen Tools Inc Phoenix AZ.....	602-968-6241
Jonard Industries Corp Tuckahoe NY.....	914-793-0700
K-G Devices Corp Dewitt NY.....	315-683-5666
Kinematix Inc Concord NH.....	603-224-6583
Kin-Tronics Inc Yonkers NY.....	914-968-7736
Klein Tools Inc Chicago IL.....	312-677-9500
Lynx Inc Leominster MA.....	617-537-6090
Macdonald & Co Glendale CA.....	818-241-1101
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Martindale Electric Co Cleveland OH.....	216-521-8567
Micro Electronic Systems Inc Brookfield CT.....	203-775-1440
Nu-Concept Computer Systems Inc Colmar PA.....	215-275-3200
O K Industries Bronx NY.....	212-994-6600
Overnight Engineering Inc San Jose CA.....	408-448-0462
Pace Inc Laurel MD.....	301-490-9860
Panduit Corp Tinley Park IL.....	312-532-1800
Park Distributors Inc Bridgeport CT.....	203-366-7200
Philmore Mfg Co Inc Inwood NY.....	516-239-6161
Plato Products Inc Glendora CA.....	818-967-3821
Recon West Inc Colorado Springs CO.....	303-392-8769
Ripley Co Inc Utility Tool Div Cromwell CT.....	203-635-2200

Sager Hingham MA.....	617-749-6700
SPC Technology Bensenville IL.....	312-766-6711
Teledyne Ansonia Solderless Connector Div Ansonia CT.....	203-735-9311
Telvac Instrument Co No Hollywood CA.....	818-983-2535
Thomas & Betts Electrical Group Raritan NJ.....	201-685-1600
Vaco Products Co Northbrook IL.....	312-564-3300
Vertex Electronics Inc Farmingdale NY.....	516-293-9880
Weidmuller Terminations Inc Richmond VA.....	804-794-2877

TOOLS—FLEX CIRCUIT

Buchanan Crimp Tool Products Union NJ.....	201-289-2225
Innes Instrument Co Pasadena CA.....	818-796-3288

TOOLS—HAND OR MECHANICAL (INCL. GRINDERS; PLIERS; PUNCHES; REAMERS; SCREWDRIVERS; WRENCHES; WRENCHES, TORQUE ETC.)

HUNTER PRODUCTS INC BRIDGEWATER NJ.....	201-526-8440
JENSEN TOOLS INC PHOENIX AZ.....	602-968-6241
ADV PG 481 KEYSTONE ELECTRONICS CORP NEW YORK NY.....	212-475-4600
MICRO ELECTRONIC SYSTEMS INC BROOKFIELD CT.....	203-775-1440
MOUSER ELECTRONICS MANSFIELD TX.....	817-483-0165
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips Adre Co Inc Milwaukee WI.....	414-352-3531
Armstrong Bros Tool Co Chicago IL.....	312-763-3333
Assembleonics Inc Brentwood NY.....	516-231-4440
Bearing Inspection Inc Santa Fe Springs CA.....	213-944-6251
Berg Inc Winfred M East Rockaway NY.....	516-599-5010
Blackburn Div FL Industries Sycamore IL.....	815-895-6501
Buchanan Crimp Tool Products Union NJ.....	201-289-2225
Channellock Inc Meadville PA.....	814-724-8700
Cherry Aerospace Fasteners Div Textron Inc Santa Ana CA.....	714-545-5511
Clauss Cutlery Co Fremont OH.....	419-332-7344
Cratex Mfg Co Inc Benicia CA.....	707-746-1700
Daniels Mfg Corp Orlando FL.....	305-855-6161
Desco Industries Inc Walnut CA.....	714-598-2753
Diamond Tool & Horseshoe Co Orangeburg SC.....	803-534-7010
Duramic Products Inc Palisades Park NJ.....	201-947-8313

Electronic Tool Co Inc Pleasantville NY	914-769-8070
Emporium Specialties Co Inc Austin PA	814-647-8861
ETM Corp Monrovia CA	213-359-8102
Eyelet Tool Co Natick MA	617-653-9002
Foredom Electric Co Div Blackstone Ind Inc	
Bethel CT	203-792-8622
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Grobet File Co of America Inc Carlstadt NJ	201-939-6700
Harris Corp Dracon Div Camarillo CA	805-987-9511
Hoffman Industrial Products Farmingdale NY	516-293-5244
Hunter Products Inc Bridgewater NJ	201-526-8440
Hunter Tools/Easco Hand Tools Inc	
Lancaster PA	717-285-4581
Ideal Industries Inc Sycamore IL	815-895-5181
Jensen Tools Inc Phoenix AZ	602-968-6241
Jilison Corp, The Hackensack NJ	201-489-4646
Jonard Industries Corp Tuckahoe NY	914-793-0700
Kedman Co Salt Lake City UT	801-973-9112
Keystone Electronics Corp New York NY	212-475-4600
K-G Devices Corp Dewitt NY	315-683-5666
Klein Tools Inc Chicago IL	312-677-9500
Macdonald & Co Glendale CA	818-241-1101
Magna Div Vermont American Corp	
Elizabethtown KY	502-737-3311
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Martindale Electric Co Cleveland OH	216-521-8567
Micro Electronic Systems Inc Brookfield CT	203-775-1440
Mitchell-Hughes Co North Hollywood CA	818-983-2535
Moody Tools Inc East Greenwich RI	401-885-0911
Mouser Electronics Mansfield TX	817-483-0165
Orbit Industries Div Countis Industries	
Carson City NV	702-882-6123
Overnight Engineering Inc San Jose CA	408-448-0462
Pace Inc Laurel MD	301-490-9860
Paladin Corp Newbury Park CA	805-499-0318
Paranise Products Inc Long Beach CA	213-595-7621
Philmore Mfg Co Inc Inwood NY	516-239-6161
PI Tape Lemon Grove CA	619-466-4338
Practical Products Co Cincinnati OH	513-891-1471
Quantum Data Inc Carol Stream IL	312-668-3301
Raymond Engineering Inc Middletown CT	203-632-1000
Ridge Tool Co Sub Emerson Elec Co	
Elyria OH	216-323-5581
Roper Whitney Co Rockford IL	815-962-3011
Sager Hingham MA	617-749-6700
Sjoberg & Son Inc Cranston RI	401-461-8220
Solder Removal Co Covina CA	818-967-3681
SPC Technology Bensenville IL	312-766-6711
Starrett Co The L S Athol MA	617-249-3551
Teknational Industries Inc Rochester NY	716-232-1291
Telvac Instrument Co No Hollywood CA	818-983-2535
Thomas & Betts Electrical Group Raritan NJ	201-685-1600
Upson Tools Inc Rochester NY	716-663-5373
Vaco Products Co Northbrook IL	312-564-3300
Waldes Truarc Inc Long Island City NY	718-392-3100
Waters Mfg Inc Wayland MA	617-358-2777
Weidmuller Terminations Inc Richmond VA	804-794-2877

TOOLS—MICROMINIATURES (INCL. DRILLS; REAMERS, ROUTERS; ETC.)

HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
MICRO ELECTRONIC SYSTEMS INC	
BROOKFIELD CT	203-775-1440
Berg Inc Winfred M East Rockaway NY	516-599-5010
Clauss Cutlery Co Fremont OH	419-332-7344
Desco Industries Inc Walnut CA	714-598-2753
Electronic Tool Co Inc Pleasantville NY	914-769-8070
ETM Corp Monrovia CA	213-359-8102
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Grobet File Co of America Inc Carlstadt NJ	201-939-6700
Hunter Products Inc Bridgewater NJ	201-526-8440
Hunter Tools/Easco Hand Tools Inc	
Lancaster PA	717-285-4581
International Carbide Tool Inc Janesville WI	608-577-0177
Jonard Industries Corp Tuckahoe NY	914-793-0700
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Metal Removal Tooling Div Federal-Mogul Corp	
Chicago IL	312-583-8200
Micro Electronic Systems Inc Brookfield CT	203-775-1440
Mitchell-Hughes Co North Hollywood CA	818-983-2535
Moody Tools Inc East Greenwich RI	401-885-0911
Orbit Industries Div Countis Industries	
Carson City NV	702-882-6123
Pace Inc Laurel MD	301-490-9860
Roan Industries Inc Pacoima CA	818-767-7047

TOOLS—PNEUMATIC ASSEMBLY

AMP INCORPORATED HARRISBURG PA	717-564-0100
HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
AMP Incorporated Harrisburg PA	717-564-0100
ARO Corp Bryan OH	419-636-4242
Buchanan Crimp Tool Products Union NJ	201-289-2225
Cherry Aerospace Fasteners Div Textron Inc	
Santa Ana CA	714-545-5511
Cooper Air Tools Lexington SC	803-359-1200
Daniels Mfg Corp Orlando FL	305-855-6161
Elco Corp Newport Beach CA	714-476-0663
Electronic Tool Co Inc Pleasantville NY	914-769-8070
ETM Corp Monrovia CA	213-359-8102
Hunter Products Inc Bridgewater NJ	201-526-8440
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Overnight Engineering Inc San Jose CA	408-448-0462
Panduit Corp Tinley Park IL	312-532-1800
Pico Crimping Tools Co Santa Fe Springs CA	213-695-8632
Roan Industries Inc Pacoima CA	818-767-7047
Simonds Inc Southbridge MA	617-764-3235

TOOLS, SOLDERING—ELECTRIC SOLDERING IRONS

JENSEN TOOLS INC PHOENIX AZ	602-968-6241
ADV PG 481	
KIN-TRONICS INC YONKERS NY	914-968-7736
ADV PGS See Ads In Green Pages	
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
WISE COMPONENTS INC GREENWICH CT	203-531-4880
Caig Labs Inc Escondido CA	619-743-7143
Desco Industries Inc Walnut CA	714-598-2753
Edsyn Inc Van Nuys CA	818-989-2324
Electronics Warehouse Inc Old Lyme CT	203-434-9838
Electronic Tool Co Inc Pleasantville NY	914-769-8070
ESICO Inc Deep River CT	203-526-5361
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Heath Co Benton Harbor MI	616-982-3200
Hexacon Electric Co Roselle Park NJ	201-245-6200
Ideal Industries Inc Sycamore IL	815-895-5181
Jensen Tools Inc Phoenix AZ	602-968-6241
Jonard Industries Corp Tuckahoe NY	914-793-0700
Kin-Tronics Inc Yonkers NY	914-968-7736
Macdonald & Co Glendale CA	818-241-1101
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Mitchell-Hughes Co North Hollywood CA	818-983-2535
Mouser Electronics Mansfield TX	817-483-0165
O K Industries Bronx NY	212-994-6600
Overnight Engineering Inc San Jose CA	408-448-0462
Pace Inc Laurel MD	301-490-9860
Park Distributors Inc Bridgeport CT	203-366-7200
Philmore Mfg Co Inc Inwood NY	516-239-6161
Plato Products Inc Glendora CA	818-967-3821
Royal Soldering Systems Glendale CA	213-245-1077
Sager Hingham MA	617-749-6700
Solder Absorbing Technology Springfield MA	413-788-6191
SPC Technology Bensenville IL	312-766-6711
Telvac Instrument Co No Hollywood CA	818-983-2535
Ungar Div Eldon Industries Inc Compton CA	213-774-5950
Wahl Clipper Corp Sterling IL	815-625-6525
Wall-Lenk Corp Kinston NC	919-527-4186
Wise Components Inc Greenwich CT	203-531-4880

TOOLS, SOLDERING—PRINTED CIRCUIT, SPECIAL TIPS

MICRO ELECTRONIC SYSTEMS INC	
BROOKFIELD CT	203-775-1440
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Edsyn Inc Van Nuys CA	818-989-2324
Electronic Tool Co Inc Pleasantville NY	914-769-8070
Enterprise Development Corp Indianapolis IN	317-251-1231
ESICO Inc Deep River CT	203-526-5361
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Hexacon Electric Co Roselle Park NJ	201-245-6200
Macdonald & Co Glendale CA	818-241-1101
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Micro Electronic Systems Inc Brookfield CT	203-775-1440
Mitchell-Hughes Co North Hollywood CA	818-983-2535
Newman Corp MM Marblehead MA	617-631-7100
Nu-Concept Computer Systems Inc	
Colmar PA	215-275-3200
O K Industries Bronx NY	212-994-6600
Overnight Engineering Inc San Jose CA	408-448-0462
Pace Inc Laurel MD	301-490-9860
Park Distributors Inc Bridgeport CT	203-366-7200
Plato Products Inc Glendora CA	818-967-3821
Roan Industries Inc Pacoima CA	818-767-7047
Royal Soldering Systems Glendale CA	213-245-1077
Sager Hingham MA	617-749-6700
Solder Absorbing Technology Springfield MA	413-788-6191
Ungar Div Eldon Industries Inc Compton CA	213-774-5950
U S Laser Corp Wyckoff NJ	201-848-9200
Wahl Clipper Corp Sterling IL	815-625-6525
Wall-Lenk Corp Kinston NC	919-527-4186

TOOLS, SOLDERING—RESISTANCE SOLDERING TOOLS

HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
Assembleonics Inc Brentwood NY	516-231-4440
Electronic Tool Co Inc Pleasantville NY	914-769-8070
Falstrom Co Passaic NJ	201-777-0013
Hunter Products Inc Bridgewater NJ	201-526-8440
Jonard Industries Corp Tuckahoe NY	914-793-0700
Macdonald & Co Glendale CA	818-241-1101
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Pace Inc Laurel MD	301-490-9860
Royal Soldering Systems Glendale CA	213-245-1077

TOOLS, SOLDERING—SOLDER POTS

SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Caig Labs Inc Escondido CA	619-743-7143
CuTech Inc Hatfield PA	215-822-8900
Electronic Tool Co Inc Pleasantville NY	914-769-8070
ESICO Inc Deep River CT	203-526-5361
Hexacon Electric Co Roselle Park NJ	201-245-6200
Macdonald & Co Glendale CA	818-241-1101
Henry Mann Inc Huntingdon Valley PA	215-355-7200
OAL Associates Inc Escondido CA	619-743-7143
Plato Products Inc Glendora CA	818-967-3821
Royal Soldering Systems Glendale CA	213-245-1077

Sager Hingham MA	617-749-6700
Wenesco Inc Chicago IL	312-973-4433

TOOLS, SOLDERING—SOLDERING TORCHES

AGF Inc Elizabeth NJ	201-352-2120
ASI Providence RI	401-331-9151
Assembleonics Inc Brentwood NY	516-231-4440
Electronic Tool Co Inc Pleasantville NY	914-769-8070
Henes Products Corp Phoenix AZ	602-275-4120
Jonard Industries Corp Tuckahoe NY	914-793-0700
Macdonald & Co Glendale CA	818-241-1101
Raychem Corp Menlo Park CA	415-361-3333
Solder Absorbing Technology Springfield MA	413-788-6191
Wall-Lenk Corp Kinston NC	919-527-4186

TOOLS, SOLDERING—ULTRASONIC SOLDERING IRONS

MG ELECTRONICS HAUPPAUGE NY	516-582-3400
Electronic Tool Co Inc Pleasantville NY	914-769-8070
Fibra-Sonics Inc Chicago IL	312-286-7377
Jonard Industries Corp Tuckahoe NY	914-793-0700
Macdonald & Co Glendale CA	818-241-1101
MG Electronics Hauppauge NY	516-582-3400
O K Industries Bronx NY	212-994-6600
Park Distributors Inc Bridgeport CT	203-366-7200

TOOLS—WIRE STRIPPING

See Strippers

TOOLS—WIRE-WRAPPING

KIN-TRONICS INC YONKERS NY	914-968-7736
ADV PGS See Ads In Green Pages	
MUPAC CORP BROCKTON MA	617-588-6110
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Computer Numerical Control Corp	
Woburn MA	617-933-0091
Electronic Tool Co Inc Pleasantville NY	914-769-8070
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Jonard Industries Corp Tuckahoe NY	914-793-0700
Kel-Am Inc Eldon MO	314-392-7174
Kin-Tronics Inc Yonkers NY	914-968-7736
Macdonald & Co Glendale CA	818-241-1101
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Mupac Corp Brockton MA	617-588-6110
Northern Automatic Assembly Inc	
Shoreview MN	612-481-0022
O K Industries Bronx NY	212-994-6600
Park Distributors Inc Bridgeport CT	203-366-7200
Sager Hingham MA	617-749-6700
Vector Electronic Co Inc Sylmar CA	818-365-9661

TOROIDS

See Cores; Coils—Toroidal;
Transformers—Toroidal

TOROID-WINDING MACHINES

See Machines—Coil Winding

TORQUE ANALYZERS

Electronic Tool Co Inc Pleasantville NY	914-769-8070
GSE Inc Farmington Hills MI	313-476-7875
Himmelsstein & Co S Hoffman Estates IL	312-843-3300
Indikon Corp Cambridge MA	617-547-3604
Raymond Engineering Inc Middletown CT	203-632-1000
Sensor Developments Inc Oxford MI	313-628-2727
Waters Mfg Inc Wayland MA	617-358-2777
West Coast Research Corp Los Angeles CA	213-478-8833

TORQUE CONTROLS

See Controls—Torque

TORQUE MEASURING EQUIPMENT

See Gages—Strain & Torque; Testers; Torque
Analyzers; Transducers

TOWERS

See Antenna Towers

TRAFFIC DETECTORS

Abrams Instrument Corp Lansing MI	517-332-6405
Crouse-Hinds Co Syracuse NY	315-477-7000
Diversified Traffic Prods Inc Mercury Elctns Div	
York PA	717-854-9557
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Robot Industries Inc Dearborn MI	313-846-2623
Rusco Electronic Systems Glendale CA	818-240-2540



“I’ve got the company name—now I need the address and a person to contact.”



Look in the GREEN PAGES of this book.

Electronics Buyers' Guide

Streeter Richardson Div Grayslake IL 312-223-4801
Winland Electronics Inc Mankato MN 507-625-7231

TRAILERS & VANS—ELECTRONIC EQUIPMENT

ENVIROMARINE SYSTEMS INC
LAUREL MD 301-598-8833
Air-A-Plane Corp Norfolk VA 804-622-5761
Craig Systems Corp Amesbury MA 617-388-5662
Enviromarine Systems Inc Laurel MD 301-598-8833
Harris Corp RF Commun Grp Rochester NY 716-244-5830
Scientific Radio Systems Inc Rochester NY 716-458-3733

TRANSCEIVERS

See Receivers—Radio Communications; Microwave Systems

TRANSDUCER CALIBRATORS

See Calibrators

TRANSDUCERS—ACCELEROMETERS

See Accelerometers

TRANSDUCERS—ANGULAR ACCELERATION

SCHAEVITZ ENGINEERING
PENNSAUKEN NJ 609-662-8000
ADV PG 485
Bourns Inc Resistive Components Group
Riverside CA 714-781-5050
Columbia Research Labs Inc Woodlyn PA 215-872-3900
Computer Optical Products Inc
Chatsworth CA 818-882-0424
Disc Instruments, A Honeywell Sub
Costa Mesa CA 714-979-5300
Endevco San Juan Capistrano CA 714-493-8181
Fredericks Co Huntingdon Valley PA 215-947-2500
Humphrey Inc San Diego CA 619-565-6631
Larson Aero Development Martinez CA 415-228-7870
Ling Electronics Inc Anaheim CA 714-779-1900
Micro Mo Electronics Inc St Petersburg FL 813-822-2529
Northrop Corp Prec Prods Div Norwood MA 617-762-5300
Schaevitz Engineering Pennsauken NJ 609-662-8000
Singer Co Kearfott Div Little Falls NJ 201-785-6000
Sundstrand Data Control Inc Redmond WA 206-885-3711
Systron Donner Inertial Div Concord CA 415-671-6400
Temposonics Div MTS Sys Corp Plainview NY 516-349-1950
Watson Industries Inc Eau Claire WI 715-839-0628
West Coast Research Corp Los Angeles CA 213-478-8833

TRANSDUCERS—ANGULAR DISPLACEMENT

BEI MOTION SYS CO COMPUTER PRODUCTS DIV
SAN MARCOS CA 619-471-2600
ADV PGS 176,177
BEI MOTION SYS CO DIGITAL PRODUCTS DIV
LITTLE ROCK AR 501-851-4000
ADV PGS 176,177
BEI MOTION SYS CO INDUSTRIAL ENCODER DIV
GOLETA CA 805-968-0782
ADV PGS 176,177
BEI MOTION SYS CO POSITION CONTROLS DIV
SANTA BARBARA CA 805-966-1538
ADV PGS 176,177
COMPUTER CONVERSIONS CORP
EAST NORTHPORT NY 516-261-3300
FARRAND CONTROLS DIV FARRAND INDUS INC
VALHALLA NY 914-761-2600
ADV PG 135
KAVLICO CORP CHATSWORTH CA 818-882-2400
ADV PGS 485,488
SCHAEVITZ ENGINEERING
PENNSAUKEN NJ 609-662-8000
ADV PG 485
Astrosystems Inc Lake Success NY 516-328-1600
BEI Motion Sys Co Computer Products Div
San Marcos CA 619-471-2600
BEI Motion Sys Co Digital Products Div
Little Rock AR 501-851-4000
BEI Motion Sys Co Industrial Encoder Div
Goleta CA 805-968-0782
BEI Motion Sys Co Position Controls Div
Santa Barbara CA 805-966-1538
Bourns Inc Resistive Components Group
Riverside CA 714-781-5050
C & A Products Inc New Milford CT 203-355-3164
Clifton Precision Litton Systems Inc
Clifton Hts PA 215-622-1000
Columbia Research Labs Inc Woodlyn PA 215-872-3900
Computer Conversions Corp
East Northport NY 516-261-3300
Computer Optical Products Inc
Chatsworth CA 818-882-0424
Disc Instruments, A Honeywell Sub
Costa Mesa CA 714-979-5300
Dynapar Corp Gurnee IL 312-662-2666
Farrand Controls Div Farrand Indus Inc
Valhalla NY 914-761-2600
Helm Instrument Co Inc Maumee OH 419-893-4356
Hewlett-Packard Palo Alto CA 415-857-8000
HH Controls Co Inc Arlington MA 617-646-2626

Humphrey Inc San Diego CA 619-565-6631
Hutchinson Technology Inc Hutchinson MN 612-587-3797
Kahl Scientific Instrument Corp El Cajon CA 619-444-2158
Kaman Instrumentation Corp
Colorado Springs CO 303-599-1825
Kavlico Corp Chatsworth CA 818-882-2400
Kistler-Morse Corp Redmond WA 206-881-8000
Larson Aero Development Martinez CA 415-228-7870
Litton Systems Inc Potentiometer Div
Mt Vernon NY 914-664-7733
MacBar Mechanisms Inc Plainview NY 516-694-5360
Micro Mo Electronics Inc St Petersburg FL 813-822-2529
MPC Products Corp Skokie IL 312-673-8300
Northern Precision Labs Inc Fairfield NJ 201-227-4800
Northrop Corp Prec Prods Div Norwood MA 617-762-5300
Pickering Controls Inc Plainview NY 516-349-0200
Robinson-Halpern Co Plymouth Mtg PA 215-825-9200
Schaevitz Engineering Pennsauken NJ 609-662-8000
Siltran Digital Atascadero CA 805-466-3209
Spaulding Instruments Pasadena CA 213-351-8924
Sperry Corp Aerospace & Marine Group
Phoenix AZ 602-869-2311
Systron Donner Inertial Div Concord CA 415-671-6400
Teledyne-Gurley Troy NY 518-272-6300
Temposonics Div MTS Sys Corp Plainview NY 516-349-1950
Transducer Systems Inc Kulpville PA 215-256-4611
Transducers & Systems Inc
North Branford CT 203-481-5721
Transcoil Inc Worcester PA 215-277-1300
Trumeter Co Inc New York NY 212-564-0666
UFI Morro Bay CA 805-772-1203
United Detector Technology Hawthorne CA 213-978-0516
Watson Industries Inc Eau Claire WI 715-839-0628
West Coast Research Corp Los Angeles CA 213-478-8833

TRANSDUCERS—DIGITAL

BEI MOTION SYSTEMS CO CARLSBAD CA 619-931-1500
ADV PGS 176,177
BEI MOTION SYS CO COMPUTER PRODUCTS DIV
SAN MARCOS CA 619-471-2600
ADV PGS 176,177
BEI MOTION SYS CO DIGITAL PRODUCTS DIV
LITTLE ROCK AR 501-851-4000
ADV PGS 176,177
BEI MOTION SYS CO INDUSTRIAL ENCODER DIV
GOLETA CA 805-968-0782
ADV PGS 176,177
BEI MOTION SYS CO POSITION CONTROLS DIV
SANTA BARBARA CA 805-966-1538
ADV PGS 176,177
COMPUTER CONVERSIONS CORP
EAST NORTHPORT NY 516-261-3300
MEASUREMENT SYSTEMS INC
NORWALK CT 203-838-5561
SOLID STATE ELECTRONICS CORP
NORTHBRIDGE CA 818-993-8257
BEI Motion Systems Co Carlsbad CA 619-931-1500
BEI Motion Sys Co Computer Products Div
San Marcos CA 619-471-2600
BEI Motion Sys Co Digital Products Div
Little Rock AR 501-851-4000
BEI Motion Sys Co Industrial Encoder Div
Goleta CA 805-968-0782
BEI Motion Sys Co Position Controls Div
Santa Barbara CA 805-966-1538
Bellofram Corp A Rexnord Co Burlington MA 617-272-2100
C & A Products Inc New Milford CT 203-355-3164
Computer Conversions Corp
East Northport NY 516-261-3300
Computer Optical Products Inc
Chatsworth CA 818-882-0424
Disc Instruments, A Honeywell Sub
Costa Mesa CA 714-979-5300
Doric Scientific Div Emerson Elec Co
San Diego CA 619-565-4415
Dynapar Corp Gurnee IL 312-662-2666
Electro Corp Sarasota FL 813-355-8411
Electronic Counters & Controls Inc
Mundelein IL 312-362-8910
Hewlett-Packard Palo Alto CA 415-857-8000
HH Controls Co Inc Arlington MA 617-646-2626
Kaman Instrumentation Corp
Colorado Springs CO 303-599-1825
Measurement Systems Inc Norwalk CT 203-838-5561
Sensor Corp San Marcos TX 512-396-4200
Micro Switch A Honeywell Div Freeport IL 815-235-6600
Northern Precision Labs Inc Fairfield NJ 201-227-4800
Siltran Digital Atascadero CA 805-466-3209
Solid State Electronics Corp Northridge CA 818-993-8257
Streeter Richardson Div Grayslake IL 312-223-4801
Teledyne-Gurley Troy NY 518-272-6300
Temposonics Div MTS Sys Corp Plainview NY 516-349-1950
Transducer Systems Inc Kulpville PA 215-256-4611
Validyne Engineering Corp Northridge CA 818-886-2057
Veeder-Root Hartford CT 203-627-7201

TRANSDUCERS—DISPLACEMENT

COMPUTER CONVERSIONS CORP
EAST NORTHPORT NY 516-261-3300
FARRAND CONTROLS DIV FARRAND INDUS INC
VALHALLA NY 914-761-2600
ADV PG 135
KAVLICO CORP CHATSWORTH CA 818-882-2400
ADV PGS 485,488
MEASUREMENT SYSTEMS INC
NORWALK CT 203-838-5561
SCHAEVITZ ENGINEERING
PENNSAUKEN NJ 609-662-8000
ADV PG 485
Action Instruments Inc San Diego CA 619-279-5726
ADE Corp Newton MA 617-969-0600
A L Design Inc Amherst NY 716-833-6272
Anilam Electronics Corp Miami FL 305-592-2727
Automatic Timing & Controls Co
King of Prussia PA 800-441-8245

Balance Technology Inc Ann Arbor MI	313-769-2100
Celeco Transducer Products Inc Canoga Park CA	818-884-6860
Columbia Research Labs Inc Woodlyn PA	215-872-3900
Computer Conversions Corp East Northport NY	516-261-3300
Davco Mfg Co Morristown NJ	201-267-4990
Daytronic Corp Miamisburg OH	513-866-3300
Dynapar Corp Gurnee IL	312-662-2666
Electro Corp Sarasota FL	813-355-8411
Everett/Charles Marketing Services Inc Fontana CA	714-899-2521
Farrand Controls Div Farrand Indus Inc Valhalla NY	914-761-2600
Helm Instrument Co Inc Maumee OH	419-893-4356
Hewlett-Packard Palo Alto CA	415-857-8000
HH Controls Co Inc Arlington MA	617-646-2626
Himmelman & Co S Hoffman Estates IL	312-843-3300
Hottelger Baldwin Measurements Inc Framingham MA	617-875-8282
Humphrey Inc San Diego CA	619-565-6631
IRD Mechanalysis Inc Columbus OH	614-885-5376
Kaman Instrumentation Corp Colorado Springs CO	303-599-1825
Kavlico Corp Chatsworth CA	818-882-2400
Kistler-Morse Corp Redmond WA	206-881-8000
Larson Aero Development Martinez CA	415-228-7870
Lifton Systems Inc Potentiometer Div Mt Vernon NY	914-664-7733
Magnetoelastic Devices Inc Pittsfield MA	413-445-5608
Magnet Instrument Co Cape Coral FL	813-574-8788
Measurement Systems Inc Norwalk CT	203-838-5561
Mechanical Technology Inc Latham NY	518-785-2211
Micro Mo Electronics Inc St Petersburg FL	813-822-2529
Northrop Corp Prec Prods Div Norwood MA	617-762-5300
NTK Technical Ceramic Div Richardson TX	214-235-8332
Pace Transducer Co Div CJ Instr Inc Tarzana CA	818-996-4131
Pickering Controls Inc Plainview NY	516-349-0200
RI/Control Systems Div Research Inc Minneapolis MN	612-941-3300
Robinson-Halpern Co Plymouth Mtg PA	215-825-9200
Schaevitz Engineering Pennsauken NJ	609-662-8000
Sierra Instruments Inc Carmel Valley CA	408-659-3177
Siltran Digital Atascadero CA	805-466-3209
Skan-A-Matic Corp Elbridge NY	315-689-3961
Spectral Dynamics Div Scientific-Atlanta Inc San Diego CA	619-268-7100
SR Engineering Inc Garden Grove CA	714-554-4200
Technair Inc Arcadia CA	818-447-1187
Temposonics Div MTS Sys Corp Plainview NY	516-349-1950
Transducer Systems Inc Kulpville PA	215-256-4611
Transducers & Systems Inc North Branford CT	203-481-5721
Transensory Devices Inc Fremont CA	415-490-3333
Trumeter Co Inc New York NY	212-564-0666
Vibro-Meter Corp Billerica MA	617-663-7322
West Coast Research Corp Los Angeles CA	213-478-8833

TRANSDUCERS—FLOW

OMEGA ENGINEERING INC STAMFORD CT	203-359-1660
ADV PG Gatefold	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
A L Design Inc Amherst NY	716-833-6272
Autocon Industries Inc St Paul MN	612-642-1784
Bailey Controls Co Wickliffe OH	216-585-8500
Bourns Inc Resistive Components Group Riverside CA	714-781-5050
Bristol Babcock Inc Waterbury CT	203-575-3000
Computer Instruments Corp I & C Div Hempstead NY	516-483-8200
Drexelbrook Engineering Co Horsham PA	215-674-1234
Dynamic Controls Corp South Windsor CT	203-528-9971
Eldec Corp Lynnwood WA	206-743-1313
Endress & Hauser Inc Greenwood IN	317-535-1738
Ensercorp Instruments Ltd Islington ON	416-231-5335
Fenwal Electronics Framingham MA	617-872-8841
Fischer & Porter Co Warminster PA	215-674-6000
Flow Technology Inc Phoenix AZ	602-437-1315
The Foxboro Co Foxboro MA	617-543-8750
Hoffer Flow Controls Port Monmouth NJ	201-787-1997
Honeywell Process Control Div Ft Washington PA	215-641-3000
ITT Barton Instruments Co City of Industry CA	818-961-2547
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Kent Process Control Inc Edison NJ	201-225-1717
Larson Aero Development Martinez CA	415-228-7870
Macrodyn Inc Schenectady NY	518-356-3500
MKS Instruments Inc Burlington MA	617-272-9255
Moore Products Co Spring House PA	215-646-7400
NTK Technical Ceramic Div Richardson TX	214-235-8332
Omega Engineering Inc Stamford CT	203-359-1660
Panometrics Inc Process Inst Div Waltham MA	617-899-2719
Peerless Radio Corp Lynbrook NY	516-593-2121
Rampap Instrument Div Hersey Prods Inc Spartanburg SC	803-578-1005
Sensor Labs Inc Orange CA	714-978-1800
Sparton Technology Inc Rio Rancho NM	505-892-5300
Teledyne Hastings-Raydist Hampton VA	804-723-6531
Transensory Devices Inc Fremont CA	415-490-3333
Trans-Met Engineering Inc La Habra CA	213-691-2266
TSI Inc St Paul MN	612-483-0900
Tylan Corp Carson CA	213-518-3610
Validyne Engineering Corp Northridge CA	818-886-2057
Veeder-Roth Hartford CT	203-527-7201
Vernitich Div Vernitron Corp Deer Park NY	516-586-5100
Viatrian Corp Grand Island NY	716-773-1700
West Coast Research Corp Los Angeles CA	213-478-8833

TRANSDUCERS—FLUID LEVEL

PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SCHAEVITZ ENGINEERING PENNSAUKEN NJ	609-662-8000
ADV PG 485	
Amerace Corp Hackettstown NJ	201-852-1122
Autocon Industries Inc St Paul MN	612-642-1784
Bailey Controls Co Wickliffe OH	216-585-8500
Bristol Babcock Inc Waterbury CT	203-575-3000
Computer Instruments Corp I & C Div Hempstead NY	516-483-8200
Consolidated Controls Corp Bethel CT	203-743-6721
Data Instruments Inc Lexington MA	617-861-7450
Davco Mfg Co Morristown NJ	201-267-4990
De-Tec-Tronic Corp Elgin IL	312-695-9150
Drexelbrook Engineering Co Horsham PA	215-674-1234
Edo Corp/Western Div Salt Lake City UT	801-486-7841
Eldec Corp Lynnwood WA	206-743-1313
Endress & Hauser Inc Greenwood IN	317-535-7138
Faria Corp Thos G Uncasville CT	203-848-9271
Fenwal Electronics Framingham MA	617-872-8841
The Foxboro Co Foxboro MA	617-543-8750
Foxboro/ICT Div Foxboro Co San Jose CA	408-946-9630
Honeywell Process Control Div Ft Washington PA	215-641-3000
I C Sensors Inc Sunnyvale CA	408-745-1814
ITT Barton Instruments Co City of Industry CA	818-961-2547
Kistler-Morse Corp Redmond WA	206-881-8000
Larson Aero Development Martinez CA	415-228-7870
Magnetoelastic Devices Inc Pittsfield MA	413-445-5608
Metritape Inc Littleton MA	617-369-7500
National Sonics Div Xertec Corp Hauppauge NY	516-273-6600
NTK Technical Ceramic Div Richardson TX	214-235-8332
Peerless Radio Corp Lynbrook NY	516-593-2121
Princo Instruments Inc Southampton PA	215-355-1500
Robinson-Halpern Co Plymouth Mtg PA	215-825-9200
Schaevitz Engineering Pennsauken NJ	609-662-8000
Scientific Instruments Inc West Palm Beach FL	305-659-5885
Sensor Labs Inc Orange CA	714-978-1800
Skan-A-Matic Corp Elbridge NY	315-689-3961
Temposonics Div MTS Sys Corp Plainview NY	516-349-1950
Viatrian Corp Grand Island NY	716-773-1700
Wabash Electrical Components Group Huntington IN	219-356-8300
West Coast Research Corp Los Angeles CA	213-478-8833
Zi-Tech Instrument Corp Palo Alto CA	415-326-2151

TRANSDUCERS—FORCE

ENTRAN DEVICES INC FAIRFIELD NJ	201-227-1002
ADV PG 486	
KAVILCO CORP CHATSWORTH CA	818-882-2400
000.000 485.488	
MEASUREMENT SYSTEMS INC NORWALK CT	203-838-5561
OMEGA ENGINEERING INC STAMFORD CT	203-359-1660
ADV PG Gatefold	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SCHAEVITZ ENGINEERING PENNSAUKEN NJ	609-662-8000
ADV PG 485	
Acrotech Brea CA	714-529-4666
A L Design Inc Amherst NY	716-833-6272
BLH Electronics Canton MA	617-821-2000
Bruel & Kjaer Instruments Inc Marlboro MA	617-481-7000
Data Instruments Inc Lexington MA	617-861-7450
Davco Mfg Co Morristown NJ	201-267-4990
Daytronic Corp Miamisburg OH	513-866-3300
Dillon & Co Inc W C Santa Rosa CA	707-527-5555
Entran Devices Inc Fairfield NJ	201-227-1002
Everett/Charles Marketing Services Inc Fontana CA	714-899-2521
The Foxboro Co Foxboro MA	617-543-8750
Foxboro/ICT Div Foxboro Co San Jose CA	408-946-9630
GSE Inc Farmington Hills MI	313-476-7875
Himmelman & Co S Hoffman Estates IL	312-843-3300
Hottelger Baldwin Measurements Inc Framingham MA	617-875-8282
Interface Inc Scottsdale AZ	602-948-5555
Kavlico Corp Chatsworth CA	818-882-2400
Kistler Instrument Corp Amherst NY	716-691-5100
Kistler-Morse Corp Redmond WA	206-881-8000
Kulite Semiconductor Products Inc Ridgely NJ	201-945-3000
Larson Aero Development Martinez CA	415-228-7870
Lebow Products/Eaton Corp Troy MI	313-643-0220
Magnetoelastic Devices Inc Pittsfield MA	413-445-5608
Measurement Systems Inc Norwalk CT	203-838-5561
Mensor Corp San Marcos TX	512-396-4200
NTK Technical Ceramic Div Richardson TX	214-235-8332
Omega Engineering Inc Stamford CT	203-359-1660
Orbit Instrument Corp Hauppauge NY	516-435-8300
Pace Transducer Co Div CJ Instr Inc Tarzana CA	818-996-4131
PCB Piezotronics Inc Depew NY	716-684-0001
Peerless Radio Corp Lynbrook NY	516-593-2121
Revere Corp of America Wallingford CT	203-269-7701
Schaevitz Engineering Pennsauken NJ	609-662-8000
Sensor Developments Inc Oxford MI	313-628-2727
Straindyne Engineering Co Los Altos Hills CA	415-948-3227
Strainert Co West Conshohocken PA	215-825-3310
Streeter Richardson Div Grayslake IL	312-223-4801
Tedea USA Canoga Park CA	818-884-8818
Tensitron Inc Harvard MA	617-456-3511
Transducers & Systems Inc North Branford CT	203-481-5721
Transensory Devices Inc Fremont CA	415-490-3333
UFI Morro Bay CA	805-772-1203
West Coast Research Corp Los Angeles CA	213-478-8833
Wilcoxon Research Rockville MD	301-330-8811

TRANSDUCERS—HUMIDITY

PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Action Instruments Inc San Diego CA	619-279-572
Climatronics Corp Bohemia NY	516-567-7300
Datatron Labs Inc Sussex NJ	914-856-431
Ensercorp Instruments Ltd Islington ON	416-231-5333
Fenwal Electronics Framingham MA	617-872-8841
The Foxboro Co Foxboro MA	617-543-8750
General Eastern Instruments Corp Watertown MA	617-923-238
Hy-Cal Engineering El Monte CA	818-444-4000
Kahl Scientific Instrument Corp El Cajon CA	619-444-2158
Peerless Radio Corp Lynbrook NY	516-593-2121
Phys-Chemical Research Corp New York NY	212-924-2800
Sparton Technology Inc Rio Rancho NM	505-892-5300
Thunder Scientific Corp Albuquerque NM	505-265-8700
Warren Components Corp Warren PA	814-723-6200
Yellow Springs Instrument Co Inc Yellow Springs OH	513-767-724

TRANSDUCER SIMULATORS

PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Daytronic Corp Miamisburg OH	513-866-3300
Doric Scientific Div Emerson Elec Co San Diego CA	619-565-4411
Dynisco Norwood MA	617-769-6600
Fogg System Co Inc Aurora CO	303-344-1883
Peerless Radio Corp Lynbrook NY	516-593-2121
Transducers & Systems Inc North Branford CT	203-481-5721
Validyne Engineering Corp Northridge CA	818-886-2057
West Coast Research Corp Los Angeles CA	213-478-8833

TRANSDUCERS—LINEAR ACCELERATION

ENTRAN DEVICES INC FAIRFIELD NJ	201-227-1002
ADV PG 486	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SCHAEVITZ ENGINEERING PENNSAUKEN NJ	609-662-8000
ADV PG 485	
SETRA SYSTEMS INC ACTON MA	617-263-1400
ADV PG 487	
ADE Corp Newton MA	617-969-0600
Bell Aerospace Textron Div Buffalo NY	716-297-1000
Columbia Research Labs Inc Woodlyn PA	215-872-3900
Computer Optical Products Inc Chatsworth CA	818-882-0424
Entran Devices Inc Fairfield NJ	201-227-1002
Hewlett-Packard Palo Alto CA	415-857-8000
Hottelger Baldwin Measurements Inc Framingham MA	617-875-8282
Humphrey Inc San Diego CA	619-565-6631
Indicon Corp Cambridge MA	617-547-3604
IRD Mechanalysis Inc Columbus OH	614-885-5376
Kaman Instrumentation Corp Colorado Springs CO	303-599-1825
Kistler Instrument Corp Amherst NY	716-691-5100
Larson Aero Development Martinez CA	415-228-7870
Metrix Instrument Co Houston TX	713-461-2131
Northrop Corp Prec Prods Div Norwood MA	617-762-5300
Pace Transducer Co Div CJ Instr Inc Tarzana CA	818-996-4131
PCB Piezotronics Inc Depew NY	716-684-0001
Peerless Radio Corp Lynbrook NY	516-593-2121
Schaevitz Engineering Pennsauken NJ	609-662-8000
Setra Systems Inc Acton MA	617-263-1400
Singer Co Kearfoot Div Little Falls NJ	201-785-6000
Spectral Dynamics Div Scientific-Atlanta Inc San Diego CA	619-268-7100
Sprengnether Instruments Inc St Louis MO	314-535-1682
Sundstrand Data Control Inc Redmond WA	206-885-3711
Syston Donner Inertial Div Concord CA	415-671-6400
Transensory Devices Inc Fremont CA	415-490-3333
Unholtz-Dickie Corp Wallingford CT	203-265-3929
Wabash Electrical Components Group Huntington IN	219-356-8300
West Coast Research Corp Los Angeles CA	213-478-8833

TRANSDUCERS—LINEAR POSITION

COMPUTER CONVERSIONS CORP EAST NORTHPORT NY	516-261-3300
FARRAND CONTROLS DIV FARRAND INDUS INC VALHALLA NY	914-761-2600
ADV PG 135	
KAVILCO CORP CHATSWORTH CA	818-882-2400
ADV PGS 485.488	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SCHAEVITZ ENGINEERING PENNSAUKEN NJ	609-662-8000
ADV PG 485	
Action Instruments Inc San Diego CA	619-279-5726
ADE Corp Newton MA	617-969-0600
Airpac Corp Ft Lauderdale Div Ft Lauderdale FL	305-587-1100
A L Design Inc Amherst NY	716-833-6272
Amerace Corp Hackettstown NJ	201-852-1122
Anilam Electronics Corp Miami FL	305-592-2727

Bailey Controls Co Wickliffe OH.....	216-585-8500
Bourns Inc Resistive Components Group	
Riverside CA.....	714-781-5050
C & A Products Inc New Milford CT.....	203-355-3164
Celeco Transducer Products Inc	
Canoga Park CA.....	818-884-6860
Columbia Research Labs Inc Woodlyn PA.....	215-872-3900
Computer Conversions Corp	
East Northport NY.....	516-261-3300
Computer Optical Products Inc	
Chatsworth CA.....	818-882-0424
Davco Mfg Co Morristown NJ.....	201-267-4990
Daytronic Corp Miamisburg OH.....	513-866-3300
Electro Corp Sarasota FL.....	813-355-8411
Electronic Counters & Controls Inc	
Mundelein IL.....	312-362-8910
Everett/Charles Marketing Services Inc	
Fontana CA.....	714-899-2521
Farrand Controls Div Farrand Indus Inc	
Valhalla NY.....	914-761-2600
The Foxboro Co Foxboro MA.....	617-543-8750
Helm Instrument Co Inc Maumee OH.....	419-893-4356
Hewlett-Packard Palo Alto CA.....	415-857-8000
Honeywell Process Control Div	
Ft Washington PA.....	215-641-3000
Hottinger Baldwin Measurements Inc	
Framingham MA.....	617-875-8282
Humphrey Inc San Diego CA.....	619-565-6631
Indikon Corp Cambridge MA.....	617-547-3604
JDK Controls Inc Newbury Park CA.....	805-499-7779
Kaman Instrumentation Corp	
Colorado Springs CO.....	303-599-1825
Kavlico Corp Chatsworth CA.....	818-882-2400
Kistler-Morse Corp Redmond WA.....	206-881-8000
Larson Aero Development Martinez CA.....	415-228-7870
Liton Systems Inc Potentiometer Div	
Mt Vernon NY.....	914-664-7733
MacBar Mechanisms Inc Plainview NY.....	516-694-5360
Magnetoelastic Devices Inc Pittsfield MA.....	413-445-5608
Metrix Instrument Co Houston TX.....	713-461-2131
Micro Switch A Honeywell Div Freeport IL.....	815-235-6600
Pace Transducer Co Div CJ Instr Inc	
Tarzana CA.....	818-996-4131
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Pickering Controls Inc Plainview NY.....	516-349-0200
RI/Control Systems Div Research Inc	
Minneapolis MN.....	612-941-3300
Robinson-Halpern Co Plymouth Mtg PA.....	215-825-9200
Schaevitz Engineering Pennsauken NJ.....	609-662-8000
Siltran Digital Atascadero CA.....	805-466-3209
Skan-A-Matic Corp Elbridge NY.....	315-689-3961
Spaulding Instruments Pasadena CA.....	213-351-8924
Spectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA.....	619-268-7100
SR Engineering Inc Garden Grove CA.....	714-554-4200
Technar Inc Arcadia CA.....	818-447-1187
Teledyne-Gurley Troy NY.....	518-272-6300
Temposonics Div MTS Sys Corp Plainview NY.....	516-349-1950
Transducer Systems Inc Kulpsville PA.....	215-256-4611
Transducers & Systems Inc	
North Branford CT.....	203-481-5721
Transensory Devices Inc Fremont CA.....	415-490-3333
Trumeter Co Inc New York NY.....	212-564-0666
Veeder-Root Hartford CT.....	203-527-7201
Vernitech Div Vernitron Corp Deer Park NY.....	516-586-5100
Wabash Electrical Components Group	
Huntington IN.....	219-356-8300
Waters Mfg Inc Wayland MA.....	617-358-2777
West Coast Research Corp Los Angeles CA.....	213-478-8833
Wilcoxon Research Rockville MD.....	301-330-8811

TRANSDUCERS—LINEAR VELOCITY

KAVLICO CORP CHATSWORTH CA.....	818-882-2400
ADV PGS 485,488	
PEERLESS RADIO CORP LYNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
SCHAEVITZ ENGINEERING	
PENNSAUKEN NJ.....	609-662-8000
ADV PG 485	
ADE Corp Newton MA.....	617-969-0600
Airpax Corp Ft Lauderdale Div	
Ft Lauderdale FL.....	305-587-1100
Bell Aerospace Textron Div Buffalo NY.....	716-297-1000
Bourns Inc Resistive Components Group	
Riverside CA.....	714-781-5050
Celeco Transducer Products Inc	
Canoga Park CA.....	818-884-6860
Columbia Research Labs Inc Woodlyn PA.....	215-872-3900
Computer Optical Products Inc	
Chatsworth CA.....	818-882-0424
Electro Corp Sarasota FL.....	813-355-8411
Fenwal Electronics Framingham MA.....	617-872-8841
Hewlett-Packard Palo Alto CA.....	415-857-8000
IRD Mechanalysis Inc Columbus OH.....	614-885-5376
Kavlico Corp Chatsworth CA.....	818-882-2400
Larson Aero Development Martinez CA.....	415-228-7870
Macrodyne Inc Schenectady NY.....	518-356-3500
Metrix Instrument Co Houston TX.....	713-461-2131
Northrop Corp Prec Prods Div Norwood MA.....	617-762-5300
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Robinson-Halpern Co Plymouth Mtg PA.....	215-825-9200
Schaevitz Engineering Pennsauken NJ.....	609-662-8000
Spectral Dynamics Div Scientific-Atlanta Inc	
San Diego CA.....	619-268-7100
Sprengnether Instruments Inc St Louis MO.....	314-535-1682
SR Engineering Inc Garden Grove CA.....	714-554-4200
Sundstrand Data Control Inc Redmond WA.....	206-885-3711
Syston Donner Inertial Div Concord CA.....	415-671-6400
Temposonics Div MTS Sys Corp Plainview NY.....	516-349-1950
Transducer Systems Inc Kulpsville PA.....	215-256-4611
Transducers & Systems Inc	
North Branford CT.....	203-481-5721
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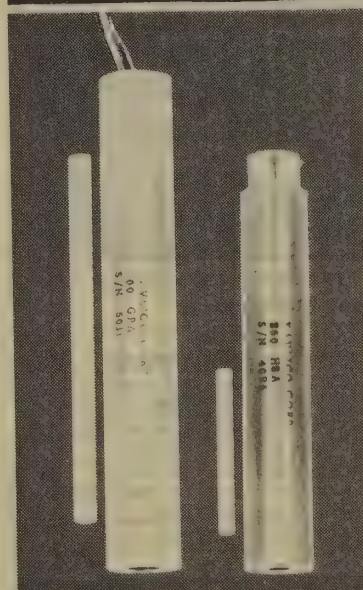
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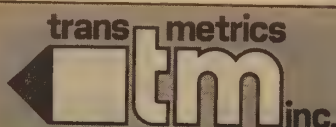
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P21A&B	0-25 to 0-15000	10-32	5v	±0.15 to 1	-65 to +250	\$295	General purpose
P21C	0-15 to 0-15000	10-30	5v	±0.15 to 1	-30 to +180	\$330	Three terminal
P27E	0-150 to 0-15000	10.5-28	5v	±0.25	-30 to +180	\$140	Low cost
P27M	0-150 to 0-15000	5-18	3mv/v	±0.25	-100 to +250	\$130	Ultra rugged
P42	0-15 to 0-15000	15-42	4-20ma	±0.25	-65 to +250	\$400	Two terminal
P52	0-50 to 0-1500	5-18	3mv/v	±0.25	-100 to +250	\$450	High accuracy
P53	0-2000 to 0-15000	5-18	3mv/v	±0.15	-100 to +250	\$325	High accuracy



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TRANSDUCERS—PRESSURE, AIR

ENTRAN DEVICES INC FAIRFIELD NJ	201-227-1002
ADV PG 486	
KAVLICO CORP CHATSWORTH CA	818-882-2400
000,000 485,488	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG 488, Gatefold	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SCHAEVITZ ENGINEERING	
PENNSAUKEN NJ	609-662-8000
ADV PG 485	
SETRA SYSTEMS INC ACTON MA	617-263-1400
ADV PG 487	
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
TRANSMETRICS INC SOLON OH	216-248-2229
ADV PG 486	
Acromag Inc Wixom MI	313-624-1541
Action Instruments Inc San Diego CA	619-279-5728
A L Design Inc Amherst NY	716-833-6272
Autocon Industries Inc St Paul MN	612-642-1784
Bailey Controls Co Wickliffe OH	216-585-8500
Bristol Babcock Inc Waterbury CT	203-575-3000
Celestro Transducer Products Inc	
Canoga Park CA	818-884-6860
Columbia Research Labs Inc Woodlyn PA	215-872-3900
Computer Instruments Corp I & C Div	
Hempstead NY	516-483-8200
Consolidated Controls Corp Bethel CT	203-743-6721
Copal Electronics Co Ltd Tokyo Japan	03-503-3777
Data Instruments Inc Lexington MA	617-861-7450
Daytronic Corp Miamisburg OH	513-866-3300
De-Tec-Tronic Corp Elgin IL	312-695-9150
Dynisco Norwood MA	617-769-6600
Endevco San Juan Capistrano CA	714-493-8181
Ensercorp Instruments Ltd Islington ON	416-231-5335
Entran Devices Inc Fairfield NJ	201-227-1002
Everett/Charles Marketing Services Inc	
Fontana CA	714-899-2521
The Foxboro Co Foxboro MA	617-543-8750
Foxboro/ICT Div Foxboro Co San Jose CA	408-946-9630
GSE Inc Farmington Hills MI	313-476-7875
Himmelsstein & Co S Hoffman Estates IL	312-843-3300
Hottinger Baldwin Measurements Inc	
Framingham MA	617-875-8282
I C Sensors Inc Sunnyvale CA	408-745-1814
ITT Barton Instruments Co	
City of Industry CA	818-961-2547
Kaman Instrumentation Corp	
Colorado Springs CO	303-599-1825
Kavlico Corp Chatsworth CA	818-882-2400
Kistler Instrument Corp Amherst NY	716-691-5100
Kulite Semiconductor Products Inc	
Ridgely NJ	201-945-3000
Larson Aero Development Martinez CA	415-228-7870
Litton Systems Inc Potentiometer Div	
Mt Vernon NY	914-664-7733
Magnetoelastic Devices Inc Pittsfield MA	413-445-5608
Micro Switch A Honeywell Div Freeport IL	815-235-6600
MKS Instruments Inc Burlington MA	617-272-9255
Moore Products Co Spring House PA	215-646-7400
Motorola Inc Automotive & Indus Elctns Grp	
Schaumburg IL	312-576-4850
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
New England Instrument Co Natick MA	617-875-9711
Omega Engineering Inc Stamford CT	203-359-1660
Pace Transducer Co Div CJ Instr Inc	
Tarzana CA	818-996-4131
Paine Instruments Inc Seattle WA	800-426-0366
Parker Hannifin Corp Quick Coupling Div	
Minneapolis MN	612-544-7781
Parker Pneumatics E Pepperell MA	617-433-2721
PCB Piezotronics Inc Depew NY	716-684-0001
Peerless Radio Corp Lynbrook NY	516-593-2121
Robinson-Halpern Co Plymouth Mtg PA	215-825-9200
Scanivalve Corp San Diego CA	619-283-5851
Schaevitz Engineering Pennsauken NJ	609-662-8000
Senso-Metrics Inc Simi Valley CA	805-527-3640
Sensym Inc Sunnyvale CA	408-744-1500
Setra Systems Inc Acton MA	617-263-1400
Solid State Electronics Corp Northridge CA	818-993-8257
Sparton Corp Jackson MI	517-787-8600
Sparton Technology Inc Rio Rancho NM	505-892-5300
Strainert Co West Conshohocken PA	215-825-3310
Teledyne Taber North Tonawanda NY	716-694-4000
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Transmetrics Inc Solon OH	216-248-2229
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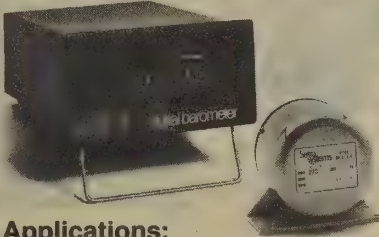
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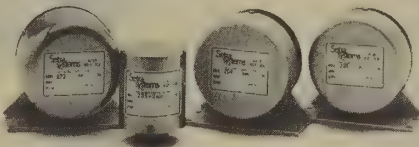
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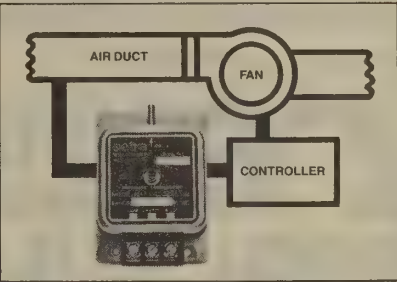
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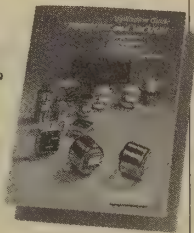
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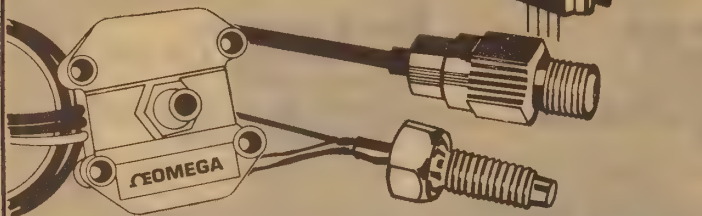
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Dynisco Norwood MA 617-769-6600
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Portsmouth RI	401-847-8000
Vernitech Div Vernitron Corp Deer Park NY	516-586-5100
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Interface Inc Scottsdale AZ	602-948-5555
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Submarine Signal Div Raytheon Co	
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TDK Corp Tokyo Japan	03-278-5111
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Vernitron Piezoelectric Div Bedford OH	216-232-8600
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Indikon Corp Cambridge MA	617-547-3604
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NTK Technical Ceramic Div Richardson TX	214-235-8332
Orthodyne Electronics Corp Costa Mesa CA	714-631-7800
Peerless Radio Corp Lynbrook NY	516-593-2121
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Spectral Dynamics Div Scientific-Atlanta Inc	
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AMF Geo Space Corp Houston TX	713-666-1611
Balance Technology Inc Ann Arbor MI	313-769-2100
Bruehl & Kjaer Instruments Inc Marlboro MA	617-481-7000
Columbia Research Labs Inc Woodlyn PA	215-872-3900
Endevco San Juan Capistrano CA	714-493-8181
Entran Devices Inc Fairfield NJ	201-227-1002
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Godfrey Mfg Co Chicago IL	312-384-7550
Helm Instrument Co Inc Maumee OH	419-893-4356
Hottinger Baldwin Measurements Inc Framingham MA	617-875-8282
IFD Technology Houston TX	713-488-0777
Indikon Corp Cambridge MA	617-547-3604
IRD Mechanalysis Inc Columbus OH	614-885-5376
Kaman Instrumentation Corp Colorado Springs CO	303-599-1825
Kistler Instrument Corp Amherst NY	716-691-5100
Knowles Electronics Inc Franklin Park IL	312-455-3600
Mechanical Technology Inc Latham NY	518-785-2211
Metrix Instrument Co Houston TX	713-461-2131
Motorola Ceramic Products Albuquerque NM	505-822-8801
NTK Technical Ceramic Div Richardson TX	214-235-8332
PCB Piezotronics Inc Depew NY	716-684-0001
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Vitec Inc Cleveland OH	216-464-4670
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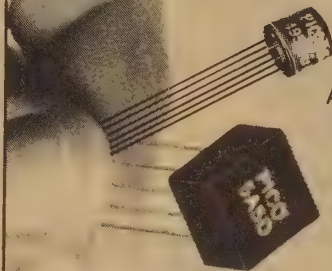
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DELEVAN DIV AMER PREC INDUS INC EAST AURORA NY	716-652-3600
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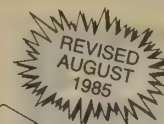
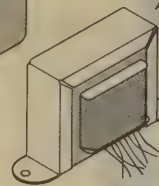
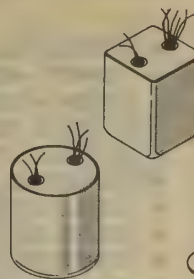
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JE-16A
2 kHz Square Wave

INPUT TRANSFORMERS AND SPECIAL TYPES

Model	Application	Impedance Ratio Pri:Sec	Turns Ratio Pri:Sec	20Hz Max Input Level ¹	Typical THD Below Saturation (%) 20 Hz / 1 kHz	Frequency Response (dB ref. 1 kHz) 20 Hz / 20 kHz	Band-Width ² -3 dB @ (kHz)	20 kHz Phase Response (degrees)	Over-Shoot (%)	Noise Figure (dB)	Magnetic Shield ⁴ (dB)	Number of Faraday ⁴ Shields	Package ⁵	PRICES		
														1-19	100-249	1000

MICROPHONE INPUT

JE-16-A	Mic in for 990 opamp	150-600	1:2	+8	0.036/0.003	-0.08/-0.05	230	-8	<1	1.7	-30	1	A=1 B=2	65.25	43.59	30.07
JE-16-B	Mic in for 990 opamp	150-600	1:2	+8	0.036/0.003	-0.08/-0.05	230	-8	<1	1.7	-30	1	A=1 B=2	71.73	47.92	33.06
JE-13K7-A	Mic in for 990 or I.C.	150-3750	1:5	+8	0.036/0.003	-0.09/-0.21	85	-19	<2	2.3	-30	1	A=1 B=2	65.25	43.59	30.07
JE-13K7-B	Mic in for 990 or I.C.	150-3750	1:5	+8	0.036/0.003	-0.09/-0.21	85	-19	<2	2.3	-30	1	A=1 B=2	71.73	47.92	33.06
JE-115K-E	Mic in for I.C. opamp	150-15 K	1:10	-6	0.170/0.010	-0.50/+0.10	115	-5	<7	1.5	-30	1	3	44.84	29.95	23.39

LINE INPUT

JE-11P-9	Line in	15 K-15 K	1:1	+26	0.025/0.003	-0.03/-0.30	52	-28	<3		-30	1	1	105.75	70.65	48.74
JE-11P-1	Line in	15 K-15 K	1:1	+17	0.045/0.003	-0.03/-0.25	85	-23	<1		-30	1	3	42.69	28.53	22.27
JE-6110K-B	Line in bridging	36 K-2200 (10 K-600)	4:1	+24	0.005/0.002	-0.02/-0.09	125	-12	<1		-30	1	B=1 BB=2	63.98	42.75	31.37
JE-6110K-BB	Line in bridging	36 K-2200 (10 K-600)	4:1	+24	0.005/0.002	-0.02/-0.09	125	-12	<1		-30	1	B=1 BB=2	74.05	49.47	34.13
JE-10KB-C	Line in bridging	30 K-1800 (10 K-600)	4:1	+19	0.033/0.003	-0.11/-0.08	160	-9	<2		-30	1	3	43.45	29.03	20.03
JE-11SSP-8M	Line in / repeat coil	600/150-600/150	1:1 split	+22	0.035/0.003	-0.03/-0.00	120	-9	<3.5		-30	1	4	168.39	112.50	77.61
JE-11SSP-6M	Line in / repeat coil	600/150-600/150	1:1 split	+17	0.035/0.003	-0.25/-0.00	160	-5	<3		-30	1	5	85.11	56.86	39.23

SPECIAL TYPES

JE-MB-C	2-way ³ mic split	150-150	1:1	+1	0.050/0.003	-0.16/-0.13	100	-12	<1		-30	2	3	36.22	24.21	18.89
JE-MB-D	3-way ³ mic split	150-150-150	1:1:1	+2	0.044/0.003	-0.14/-0.16	100	-12	<1		-30	3	3	63.35	42.32	33.04
JE-MB-E	4-way ³ mic split	150-150-150-150	1:1:1:1	+10	0.050/0.002	-0.10/-1.00	40	-18	<1		-30	4	1	98.99	66.13	45.62
JE-DB-E	Direct box for guitar	20 K-150	12:1	+19	0.096/0.005	-0.20/-0.20	80	-18	<1		-30	2	6	45.46	30.38	23.71

- (dBu) Max input level = 1% THD; dBu = dBV ref. 0.775 V
- With recommended secondary termination
- Specifications shown are for max. number of secondaries terminated in 1000 ohm (typical mic preamp)
- Separate lead supplied for case and for each faraday shield
- Except as noted, above transformers are cased in 80% nickel mu-metal cans with wire leads.

PACKAGE DIMENSIONS:

W	L	H
1 = 1 1/16" Diam.	x 1 1/16"	
2 = 1 3/16" x 1 3/16"	x 1 1/16"	
3 = 1 1/8" Diam.	x 1 1/8"	
4 = 1 1/2" x 1 1/4"	2 1/2" w/ solder terminals	
5 = 1 5/8" Diam.	x 1 3/4"	
6 = 1 1/8" Diam.	x 1 5/16"	

NICKEL CORE OUTPUT TRANSFORMERS⁶

Model	Construction	Nominal Impedance Ratio Pri:Sec	Turns Ratio Pri:Sec	20 Hz Max Output Level ⁷ across (n) windings (dBu)	600 Ω Load Loss (dB)	DC Resistance per Winding	Typical THD Below Saturation (%) 20 Hz / 1 kHz	Frequency Response (dB ref. 1 kHz) 20 Hz / 20 kHz	Band-Width ² -3 dB @ (kHz)	20 kHz Phase Response (degrees)	Over-Shoot (%)	Package	PRICES		
													1-19	100-249	1000
JE-11-BMCF	Bifilar 80% nickel	600-600	1:1	+26	1	-1.1	0.002/0.002	-0.02/-0.00	>10MHz	-0.0	<1 ⁹	7	65.36	43.66	30.12
JE-11-DMCF	Bifilar 80% nickel	600-600	1:1	+21	1	-1.0	0.004/0.002	-0.02/-0.00	>10MHz	-0.0	<1 ⁹	8	48.74	32.56	22.46
JE-123-BLCF	Quadfililar	600-600 150-600	1:1 1:2	+32	2	-1.1	0.041/0.003	-0.02/-0.01	>450 170	-1.9 -4.0	<1 ⁸	7	64.57	37.71	26.02
JE-11SS-DLFC	Bifilar split/split	600-600 150-600	1:1 1:2	+27	2	-1.0	0.065/0.003	-0.02/-0.01	>10MHz 245	-0.0 -2.5	<1 ⁸	8	46.38	30.98	21.37
JE-11-ELCF	Bifilar	600-600	1:1	+23.5	1	-1.1	0.088/0.003	-0.03/-0.00	>10MHz	-0.0	<1 ⁹	9	30.21	20.18	13.93
JE-11-FLCF	Bifilar	600-600	1:1	+20.4	1	-1.6	0.114/0.003	-0.03/-0.00	>10MHz	-0.0	<1 ⁹	10	23.66	15.81	10.91
JE-112-LCF	Quadfililar	600-600 150-600	1:1 1:2	+20.4	2	-1.6	0.114/0.003	-0.03/-0.01	>450 205	-1.2 -3.2	<1 ⁸	10	26.68	17.82	13.08
JE-123-ALCF	Quadfililar	66.7-600	1:3	+26.5	3	-1.3	0.125/0.003	-0.04/+0.06	190	-4.6	<6 ⁸	8	44.09	29.45	20.32
JE-11S-LCF	Bifilar w/ split pri.	600-600 150-600	1:1 1:2	+30	1 (sec)	-1.7	0.058/0.002	-0.02/+0.01 -0.02/-0.05	>10MHz 155	+1.1 -4.1	<1 ⁸	8	44.09	29.45	20.32

- Multifilar construction has no faraday shield: cannot be used as input transformer. All specifications are for 0 Ω source, 600 Ω load.
- Max output level = 1% THD; dBu = dBV ref. 0.775 V
- Source amplifier -3 dB @ 100 kHz
- Source amplifier -3 dB @ 200 kHz
- Output transformers are horizontal channel frame type with wire leads, vertical channel frames available. PC types available.

PACKAGE DIMENSIONS:

W	L	H	Mounting Centers
7 = 1 1/2" x 2 5/16"	x 1 15/16"		2 3/16"
8 = 1 5/16" x 1 15/16"	x 1 5/8"		2 3/8"
9 = 1 1/8" x 1 1/16"	x 1 3/8"		2"
10 = 1 1/16" x 1 1/16"	x 1 3/16"		1 3/4"

These charts include the most popular types which are usually available from stock. Many other types are available from stock or custom designs for OEM orders of 100 pieces or more can be made to order. Certified computer testing is available for OEM orders. Call or write for applications assistance and/or detailed data sheets on individual models.

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Torotol Products Inc Grandview MO	816-761-6314
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Trans American Transformer Inc Medford NY	516-654-1880
Triad-Utrad Huntington IN	219-356-6500
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TRW Electronics Assemblies Div Wheeling IL	312-319-0500
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Babcock Inc Orange CA	714-633-3700
Better Coil & Transformer Corp Goodland IN	219-297-3111
B G Electronics Inc Mount Vernon NY	914-664-5591
Boeing Electronics Tukwila WA	206-575-5755
Chloride Electro Networks Caledonia NY	716-538-4421
Coast Coil Co Los Angeles CA	213-936-6188
Coil-O Corp Bronxville NY	914-337-4775
Coil Specialty Co State College PA	814-234-7044
Component Specialties Corp Temple City CA	213-287-3221
Computer Components Inc Pelham NY	914-738-1611
Cord Electronics Inc Westbury NY	516-935-3640
Custom Coils Inc Alcester SD	605-934-2460
Dale Electronics Inc Yankton Div Yankton SD	605-665-9301
Deyoung Mfg Inc Kirkland WA	206-823-4798
Dietz Design Inc Belton MO	816-331-4911
Douglas Randall Div Pawcatuck CT	203-599-2075
Dyco Electronics Inc Hornell NY	607-324-2030
Eastman Kodak Co Rochester NY	716-724-4000
Edko Electronics Inc Great Neck NY	516-482-7358
Electrical Windings Inc Chicago IL	312-235-3360
Electronic Coils Inc Springfield MA	413-736-6339
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El-Rad Mfg Co Chicago IL	312-478-7300
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E-Tronics Sepulveda CA	213-892-7279
E W C Inc Kenilworth NJ	201-245-3200
Forbes & Wagner Inc Silver Creek NY	716-934-2691
Freed Transformer Co Inc Ridgewood NY	718-386-1300
General Magnetics Inc Bloomfield NJ	201-743-2700
Gowanda Electronics Corp Gowanda NY	716-532-2234
Hadley Co Inc Robert M Los Angeles CA	213-234-9099
Hammond Mfg Co Inc Buffalo NY	716-894-5710
Hisonic Inc Olathe KS	913-782-0012
Histar Corp New York NY	212-679-2706

James Electronics Inc Chicago IL	312-463-6500
JB Electronic Transformers Inc Chicago IL	312-342-0008
Jensen Transformers Inc North Hollywood CA	213-876-0059
Jerome Industries Corp Elizabeth NJ	201-353-5700
Keytronic Inc Endicott NY	607-754-5400
K G S Electronics Pasadena CA	818-798-0788
K & M Electronics Inc West Springfield MA	413-781-1355
Lenco Electronics Inc McHenry IL	815-344-2900
Leonard Electric Products Co Brownsville TX	512-546-1625
Lestronics Inc Longmont CO	303-443-6255
Magnetek Corp Boulder CO	303-442-6700
Magnetic Circuit Elements Inc Salinas CA	408-757-8752
Magnetic Component Engineering Inc	
Culver City CA	213-398-4765
Magnetico Inc Holtville NY	516-654-1166
Microtran Co Inc Valley Stream NY	516-561-6050
Midland-Ross Corp Midcom Unit	
Watertown SD	605-886-4385
Midland-Ross Corp Midtex Div	
North Mankato MN	507-625-6521
Mid-West Transformer Co Grayslake IL	312-223-8686
Mini-Magnetics Co Inc Fremont CA	415-490-7500
Minnesota Magnetic Coil Co Stacy	612-464-7714
Mitsumi Electronics Corp Melville NY	516-752-7730
Mouser Electronics Mansfield TX	817-483-0165
MTE Corp Milwaukee WI	414-358-5300
Multi Products International Cedar Grove NJ	201-239-8183
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Newton Engineering Svc Inc Newton Hlds MA	617-244-2725
Northlake Engineering Inc Antioch IL	312-395-5710
Nyco Transformer Co t/a New York Coil	
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Technitrol Inc Philadelphia PA	215-426-9105
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TRW Electronic Assemblies Div Wheeling IL	312-319-0500
Valor Electronics Inc San Diego CA	619-458-1767
Wayne Transformer Co Inc Paterson NJ	201-278-7674
Winatic Corp Vestal NY	607-729-6318

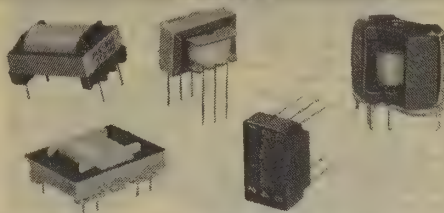
TRANSFORMERS—A-F MODULATOR

DALE ELECTRONICS INC YANKTON DIV	
YANKTON SD	605-665-9301
ADV PG 503	
DEL ELECTRONICS CORP	
MT VERNON NY	914-699-2000
HISONIC INC OLATHE KS	913-782-0012
ADV PG 229	
JENSEN TRANSFORMERS INC	
NORTH HOLLYWOOD CA	213-876-0059
ADV PG 491	
MICROTRAN CO INC VALLEY STREAM NY	516-561-6050
ADV PGS 492, 502	
PICO ELECTRONICS INC	
MOUNT VERNON NY	914-699-5514
ADV PG 490	
PREM MAGNETICS INC MCHENRY IL	815-385-2700
ADV PG 499	
TEAPO ELECTRONIC CORP OF AMERICA	
NORCROSS GA	404-449-0034
AIE Magnetics Div Vernitron Nashville TN	615-244-9024
American Magnetics Corp Cartersville IL	618-985-4838
Ault Inc Minneapolis MN	612-560-9300
Avdin Radar & EW Div San Jose CA	408-629-1100
Babcock Inc Orange CA	714-633-3700
Better Coil & Transformer Corp Goodland IN	219-297-3111
Boeing Electronics Tukwila WA	206-575-5755
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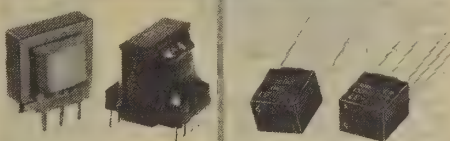
ORDER
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PRODUCT LINE SUMMARY

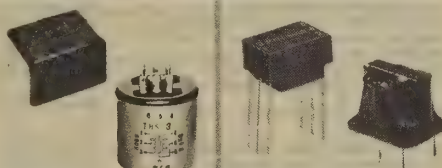
TRANSFORMERS & INDUCTORS FOR TELEPHONE INTERCONNECT. The TTC SERIES meets the high performance requirements of telephone central office, modem, facsimile, and voice communication applications. These **FCC PART 68** coupling, direct connect, hybrid transformers and holding coils **COMPLY WITH UL & MEET FCC PART 68** requirements.



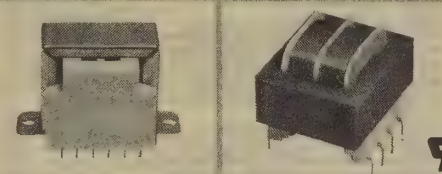
The ATT SERIES **AUDIO TRANSFORMERS** are a low cost, volume produced series of transformers for impedance matching, isolation & sound distribution applications. The DP SERIES **ENCAPSULATED AUDIO TRANSFORMERS** are cost effective for severe environments & are tested to **MIL-T-27**; several items **MEET FCC PART 68** requirements.



PROFESSIONAL AUDIO TRANSFORMER SERIES of high performance audio transformers are widely used in communications, broadcasting, recording & measuring apparatus. These transformers are available with electrostatic and MU-metal shields; lead, solder lug, or PC pin terminations; & open or metal case construction.

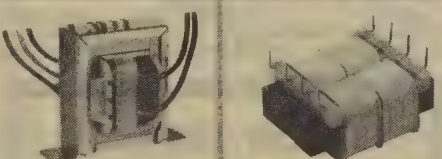


The PEP **INTERNATIONAL SERIES POWER TRANSFORMERS** have physical barriers between primary & secondary windings. The PEP SERIES incorporates a double protection insulation system and passes **4000V R M S HIPOT**.

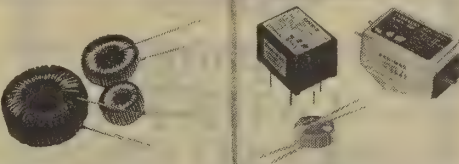


UL 1411 RECOGNIZED—FILE NO. E 98949
MEETS CSA, IEC 65 & VDE SAFETY STANDARDS

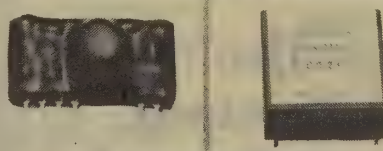
CUSTOM OEM POWER & AUDIO TRANSFORMERS—UL RECOGNIZED under UL1411 and Tamura FILE NO. E 59673. These designed-to-customer performance transformers also **COMPLY WITH CSA, IEC-65, MITI-JIS, & VDE SAFETY STANDARDS**. This series offers many different construction styles and **OUTPOWER RATINGS FROM 0.7VA TO 400VA**.



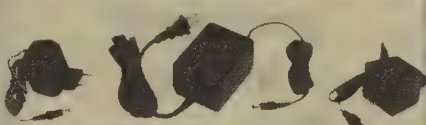
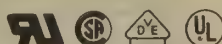
NOISE FILTERING & POWER INDUCTORS for switch-mode power, regulator, control & filtering circuit applications. **SKP SERIES INDUCTORS** for EMI/RFI noise absorbing use. **SKL SERIES INDUCTORS** have **SWINGING L** with varying DC. **SKC SERIES INDUCTORS** are wound on gapped toroidal cores & have current ratings from 5 to 50A DC.



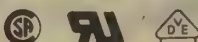
DC-DC CONVERTERS NON-ISOLATION, SINGLE-IN-LINE PACKAGE for POLARITY REVERSING & VOLTAGE BOOSTING use. This series of DC-DC converters is encapsulated for environmental protection & available with single or dual outputs. In four package sizes, they have output power ratings of 0.2, 0.3, 0.5, & 1.0 WATT.



DIRECT PLUG-IN AC-DC REGULATED & UNREGULATED POWER SOURCES comply to WORLDWIDE safety agency requirements. This series is available in a variety of output ratings & terminations. Custom logo & multiple listings available.



The OLYMPIAN SERIES **SWITCHING POWER SUPPLIES** are the highest **WATTS/INCH³** VDE certified units available. The series is **UL & CSA** approved. The Olympian series features **WORLDWIDE AC INPUT** with VDE0871 & VDE0875 filtering, **SURFACE-MOUNT HYBRID TECHNOLOGY, OVP, ENABLE/INHIBIT, POWER FAIL, & 80,000 HOURS MTBF**.



TELECOMMUNICATION TRANSFORMERS for DATA, DIGITAL, LOCAL-AREA-NETWORK & T-1 CARRIER circuit applications. These wide-band & pulse transformers feature low loss & low distortion performance characteristics. Miniature size, & low profiles are achieved with high-perm cores. Many models **MEET FCC PART 68** isolation requirements.

MINIATURE ENCAPSULATED TRANSFORMERS AND INDUCTORS are the smallest (0.31" x 0.41" x 0.465") audio magnetic components available with **1000V R M S HIPOT**. Several models **MEET FCC PART 68 & 1500V R M S HIPOT**. The MET SERIES transformers & MEI SERIES inductors are manufactured to **MEET MIL-T-27** as type TF5S21ZZ.

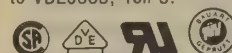
SCR—TRIAC TRIGGER & PULSE—ISOLATION TRANSFORMERS. The STT SERIES is designed for low cost source isolation with **2600V R M S HIPOT** for SCR & TRIAC control circuits. The PHT & G SERIES **PULSE TRANSFORMERS** offer a wide range of characteristics. Encapsulated for protection against severe environments.

3 FLANGE BOBBIN POWER TRANSFORMERS—80 MODELS IN STOCK. The 3F SERIES POWER TRANSFORMERS are drop-in compatible to all competitors & tube packed for auto-insertion.

UL1585 CLASS II & III—FILE NO. E 95844
UL GENERAL PURPOSE TRANSFORMER—E 91239
UL CLASS B INSULATION SYSTEM

LOW PROFILE—3 FLANGE BOBBIN PC POWER TRANSFORMERS. The 3FL SERIES power transformers are designed and manufactured to comply with **UL** requirements and utilize a **UL CLASS B INSULATION SYSTEM**. Available in 5 power ranges: 2VA, 6VA, 12VA, 24VA & 48VA. These transformers have max. heights above the PC board of 0.65" to 1.375".

EMI/RFI AC LINE FILTERS & COMMON MODE INDUCTORS. This series **MEETS FCC PART 15 & VDE-0871 CLASS A & B** requirements; UL1283 RECOGNIZED under E 92559; CSA CERTIFIED to C22.2 #8; & TUV CERTIFIED to VDE0565, Teil 3.



ISOLATION SERIES DC-DC CONVERTERS mount on a PC board. These **COST EFFECTIVE, LOW PROFILE, SMALL SIZE** power modules are **ENCAPSULATED SURFACE-MOUNT HIGH-DENSITY HYBRID** packaged to guarantee **LONG LIFE & HIGH RELIABILITY**. Most models in this series of DC-DC converter modules include a **NOISE FILTER INDUCTOR & OVERCURRENT PROTECTION**.

PLUG-IN POWER SOURCES are available in CORD-CORD, DESK TOP, UL-CSA PLUG & EUROPEAN PLUG configurations with a variety of output terminations. Includes barrel plug & screw terminal styles. A wide range of output ratings including AC-AC, AC-DC regulated, & AC-DC unregulated models, & OEM CUSTOM designs are available.

OPEN & CLOSED FRAME POWER SUPPLIES—These **LINEAR & SWITCHMODE SERIES** meet all international safety and emission standards. They are available in multiple and single output models with **WORLDWIDE AC INPUT, HIGH MTBF** components are used throughout these power supplies for high performance and long operating life.

Tel: (213) 532-1790
FAX: (213) 515-0506
Telex: 664759 (PAN-MAG CRSN)

PAN-MAG

PAN-MAGNETICS INTERNATIONAL, INC.
455-A CARSON PLAZA DRIVE
CARSON, CA 90746

Endicott Coil Co Inc Binghamton NY	607-797-1263
Ensign Corp Burr Ridge IL	312-325-9343
Epco Products Inc Walkill NY	914-895-2033
E W C Inc Kenilworth NJ	201-245-3200
Forbes & Wagner Inc Silver Creek NY	716-934-2691
Freed Transformer Co Inc Ridgewood NY	718-386-1300
Grand Transformers Inc Grand Haven MI	616-842-5430
Hadley Co Inc Robert M Los Angeles CA	213-234-9091
Hisonic Inc Olathe KS	913-782-0012
Histar Corp New York NY	212-679-2706
James Electronics Inc Chicago IL	312-463-6500
JB Electronic Transformers Inc Chicago IL	312-342-0080
Jensen Transformers Inc North Hollywood CA	213-876-0059
Kytronics Inc Endicott NY	607-754-5405
K G S Electronics Pasadena CA	818-798-0786
Lenco Electronics Inc McHenry IL	815-344-2900
Magnetek Corp Boulder CO	303-442-6700
Magnetic Laboratories Apalchin NY	607-754-5800
Magnetico Inc Holsville NY	516-654-1166
Megatran Electronic Power Bordentown NJ	609-298-7300
Microtran Co Inc Valley Stream NY	516-561-6050
MTE Corp Milwaukee WI	414-358-5300
Neshaminy Electronic Corp Furlong PA	215-794-7411
Northlake Engineering Inc Antioch IL	312-395-5710
NWL Transformers Bordentown NJ	609-298-7300
Nyco Transformer Co t/a New York Coil	
Pottstown PA	215-327-4106
OPT Industries Inc Phillipsburg NJ	201-454-2600
Pico Electronics Inc Mount Vernon NY	914-699-5514
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Precision Electronics Inc Copiague NY	516-842-4900
Preferred Electronics Inc Westfield MA	413-568-2301
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Radio Television Products Corp Douglas AZ	602-364-4438
SNC Mfg Inc Oshkosh WI	414-231-7370
Staco Transpower Dayton OH	513-253-1191
Stancor Products/Hamilton Standard Controls	
Logansport IN	219-722-2244
Stanford Applied Engineering Santa Clara CA	408-988-0700
Sterling Transformer Corp Brooklyn NY	718-782-4200
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Norcross GA	404-449-0034
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Triad-Utrad Huntington IN	219-356-6500
Wayne Transformer Co Inc Paterson NJ	201-278-7674
Winatic Corp Vestal NY	607-729-6318

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Magnetic Laboratories Apalchin NY	607-754-5800
Magnetico Inc Holsville NY	516-654-1166
Microtran Co Inc Valley Stream NY	516-561-6050
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MTE Corp Milwaukee WI	414-358-5300
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Winatic Corp Vestal NY	607-729-6318

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YANKTON SD	605-665-9301
ADV PG 503	
ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
INSTRUMENTS INC SAN DIEGO CA	619-571-1111
MICROTRAN CO INC VALLEY STREAM NY	516-561-6050
ADV PGS 492,502	
PICO ELECTRONICS INC	
MOUNT VERNON NY	914-699-5514
ADV PG 490	
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E W C Inc Kenilworth NJ	201-245-3200
Freed Transformer Co Inc Ridgewood NY	718-386-1300
Instruments Inc San Diego CA	619-571-1111
International High Voltage Electronics Inc	
Danbury CT	203-792-7820
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NWL Transformers Bordentown NJ	609-298-7300
Nyco Transformer Co t/a New York Coil	
Pottstown PA	215-327-4106
Perkin Elmer NA Inst Div Elctn Prods Dept	
Norwalk CT	203-762-6574
Pico Electronics Inc Mount Vernon NY	914-699-5514
Polyphase Instrument Co Ft Washington PA	215-643-6950
Precision Electronics Inc Copiague NY	516-842-4900
Preferred Electronics Inc Westfield MA	413-568-2301
PTC Transformers Bordentown NJ	609-298-8200
Radio Television Products Corp Douglas AZ	602-364-4438
Sag Harbor Industries Inc Sag Harbor NY	516-725-0440
Smallwood Ltd S G Kitchener ON	519-894-2280
Stanford Applied Engineering Santa Clara CA	408-988-0700
Sterling Transformer Corp Brooklyn NY	718-782-4200
Sub-Tronics Inc Stacy MN	612-462-2541
Technitrol Inc Philadelphia PA	215-426-9105
Thordarson Meissner Inc Mt Carmel IL	618-262-5121
Torad Coil Co Inc Wayne NJ	201-835-6195
Torelco Inc Irvington NJ	201-374-8641
Tranex Inc Sub Micro-Mask Inc Sunnyvale CA	408-732-0441
TRW Electronic Assemblies Div Wheeling IL	312-319-0500
Wayne Transformer Co Inc Paterson NJ	201-278-7674

TRANSFORMERS—A-F PRINTED

CIRCUIT TERMINALS

AT&T COMPONENTS & ELECTRONIC SYSTEMS

ALLEN TOWN PA	800-372-2447
CORD ELECTRONICS INC WESTBURY NY	516-935-3640
DALE ELECTRONICS INC YANKTON DIV	
YANKTON SD	605-665-9301
ADV PG 503	
ESC ELECTRONICS CORP	
PALISADES PARK NJ	201-947-0400
HISONIC INC OLATHE KS	913-782-0012
ADV PG 229	
JENSEN TRANSFORMERS INC	
NORTH HOLLYWOOD CA	213-876-0059
ADV PG 491	
MICROTRAN CO INC VALLEY STREAM NY	516-561-6050
ADV PGS 492,502	
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
MULTI PRODUCTS INTERNATIONAL	
CEDAR GROVE NJ	201-239-8183
PAN-MAGNETICS INTL INC CARSON CA	213-532-1790
ADV PG 493	
PICO ELECTRONICS INC	
MOUNT VERNON NY	914-699-5514
ADV PG 490	
PREM MAGNETICS INC MCHENRY IL	815-385-2700
ADV PG 499	
RCD COMPONENTS INC	
MANCHESTER NH	603-669-0054
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
TEAPO ELECTRONIC CORP OF AMERICA	
NORCROSS GA	404-449-0034
Advanced Components Industries Inc	
El Segundo CA	213-322-4249
AIE Magnetics Div Vernitron Nashville TN	615-244-9024
American Magnetics Corp Cartersville IL	618-985-4838
AT & T Components & Electronic Systems	
Allen town PA	800-372-2447
Babcock Inc Orange CA	714-633-3700
Better Coil & Transformer Corp Goodland IN	219-297-3111
B G Electronics Inc Mount Vernon NY	914-864-5591
Boeing Electronics Tukwila WA	206-575-5755
Chloride Electro Networks Caledonia NY	716-538-4421
Coast Coil Co Los Angeles CA	213-936-6188
Coil-Q Corp Bronxville NY	914-337-4775
Coil Specialty Co State College PA	814-234-7044
Component Specialties Corp Temple City CA	213-287-3221
Computer Components Inc Pelham NY	914-738-1611
Cord Electronics Inc Westbury NY	516-935-3640
Cramer Coil & Transformer Co Inc	
Saukville WI	414-284-9425
Custom Coils Inc Alcester SD	605-934-2460
Dale Electronics Inc Yankton Div Yankton SD	605-665-9301
Deyoung Mfg Inc Kirkland WA	206-823-4798
Dietz Design Inc Belton MO	816-331-4911
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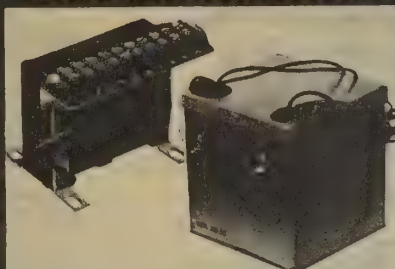
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BICRON ELECTRONICS CO CANAAN CT	203-824-5125
ADV PG 498	
JOHN FRANEK CO INC IRVINE CA	714-261-5377
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SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
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ADV PGS 345,495	
ULVECO ELECTRONICS INC	
FOSTER CITY CA	415-574-1100
ADV PG 507	

ACDC Electronics Div Emerson Elec Co	
Oceanside CA	619-757-1880
Acme Electric Corp Olean NY	716-968-2400
American Magnetics Corp Carterville IL	618-985-4838
Avionic Instrument Inc Rahway NJ	201-388-3500
Aydin Radar & EW Div San Jose CA	408-629-1100
Babcock Inc Orange CA	714-633-3700
Basler Electric Co Highland IL	618-654-2341
Better Coil & Transformer Corp Goodland IN	219-297-3111
Bicron Electronics Co Canaan CT	203-824-5125
Bruce Electric Equipment Corp	
Lindenhurst NY	516-226-2424
Chloride Electro Networks Caledonia NY	716-538-4421
Coil Specialty Co State College PA	814-234-7044
Computer Power Inc High Bridge NJ	201-638-8000
Dietz Design Inc Belton MO	816-331-4911
Dycos Electronics Inc Hornell NY	607-324-2030
Electronic Research Assocs Inc	
Moonachie NJ	201-641-3650
Electronic Transformer Corp Totowa NJ	201-942-2222
Elgin Electronics Erie PA	814-864-4921
Elma Engineering Palo Alto CA	415-494-7303
Endicott Coil Co Inc Binghamton NY	607-797-1263
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E W C Inc Kenilworth NJ	201-245-3200
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Hypor Industries Corp Watertown MA	617-926-0140
Isoreg Corp Littleton NJ	617-486-9483
ITT PowerSystems Corp Galion OH	419-468-8100
Keytronic Inc Endicott NY	607-754-5405
K S Electronics Pasadena CA	818-798-0786
Lenco Electronics Inc McHenry IL	815-344-2900
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Magnetic Laboratories Apalachin NY	607-754-5800
Magnetico Inc Holtsville NY	516-654-1166
Merrimack Magnetics Corp Lowell MA	617-458-1487
Micron Industries Corp Stone Park IL	312-345-0788
Mid-West Transformer Co Grayslake IL	312-223-8686
MTE Corp Milwaukee WI	414-358-5300
Neshaminy Electronic Corp Furlong PA	215-794-7411
Nicollet Mfg Inc Minneapolis MN	612-379-7919
Northlake Engineering Inc Antioch IL	312-395-5710
OPT Industries Inc Phillipsburg NJ	201-454-2600
Osborne Transformer Corp Detroit MI	313-368-4136
Pan-Magnetics Intl Inc Carson CA	213-532-1790
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HIPOTRONICS INC BREWSTER NY	914-279-8091
HISONIC INC OLATHE KS	913-782-0012
ADV PG 229	
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P C Transformer Corp West Babylon NY	516-491-3300
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Telecrafters Corp Harrisburg PA	717-564-8993
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Torad Coil Co Inc Wayne NJ	201-835-6195
Torelec Inc Irvington NJ	914-374-8641
Torotron Corp Mt Vernon NY	914-664-2050
Trans American Transformer Inc Medford NY	516-654-1880
Triad-Utrad Huntington IN	219-356-6500
TRW Electronic Assemblies Div Wheeling IL	312-319-0500
Universal Volttronics Corp Mount Kisco NY	914-241-1300
Voltex United Culver City CA	213-398-4761
Wayne Transformer Co Inc Paterson NJ	201-278-7674

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HISONIC INC OLATHE KS	913-782-0012
ADV PG 229	
INDUCTIVE PRODUCTS INC	
GARDEN GROVE CA	714-891-2572
ADV PG 227	
MOUSER ELECTRONICS MANSFIELD TX	817-483-0165
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ADV PG 493	
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American Trans-Coil Corp Richmond Hill NY	718-441-5207
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Cramer Coil & Transformer Co Inc Saukville WI.....	414-284-9425
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Acme Electric Corp Olean NY.....	716-968-2400
Aydin Radar & EW Div San Jose CA.....	408-629-1100
BH Electronics Burnsville MN.....	612-894-9590
Bruce Electric Equipment Corp Lindenhurst NY.....	516-226-2424
Coil Specialty Co State College PA.....	814-234-7044
Computer Power Inc High Bridge NJ.....	201-638-8000
Dynatech Computer Power Inc Scotts Valley CA.....	800-638-9098
Endicott Coil Co Inc Binghamton NY.....	607-797-1263
Freed Transformer Co Inc Ridgewood NY.....	718-386-1300
Gowanda Electronics Corp Gowanda NY.....	716-532-2234
Hitran Corp Flemington NJ.....	201-782-5525
James Electronics Inc Chicago IL.....	312-663-6500
Jefferson Electric Co Bellwood IL.....	312-626-7700
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Nova Electric Mfg Co Nutley NJ.....	201-661-3434
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RTE Deltec Corp San Diego CA.....	619-291-4211
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SNC Mfg Inc Oshkosh WI.....	414-231-7370
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Staco Transpower Dayton OH.....	513-253-1191
Sub-Tronics Inc Stacy MN.....	612-462-2541
Superior Electric Co The Bristol CT.....	203-582-9561
TDK Corp Tokyo Japan.....	03-278-5111
Trans American Transformer Inc Medford NY.....	516-654-1880
TRW Electronic Assemblies Div Wheeling IL.....	312-319-0500
Ulveco Electronics Inc Foster City CA.....	415-574-1100
Wayne Transformer Co Inc Paterson NJ.....	201-278-7674
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ABACUS CONTROLS INC SOMERVILLE NJ.....	201-526-6010
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ADV PG 498	
CORD ELECTRONICS INC WESTBURY NY.....	516-935-3640
DALE ELECTRONICS INC YANKTON DIV YANKTON SD.....	605-665-9301
ADV PG 503	
DEL ELECTRONICS CORP MT VERNON NY.....	914-699-2000
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WISE COMPONENTS INC GREENWICH CT.....	203-531-4880
ADV PG 497	
AAK Corp Haverhill MA.....	617-373-3769
Abacus Controls Inc Somerville NJ.....	201-526-6010
Acme Electric Corp Olean NY.....	716-968-2400
AIE Magnetics Div Vernitron Nashville TN.....	615-244-9024
American Magnetics Corp Cartersville IL.....	618-985-4838
Automatic Coil Corp Hialeah FL.....	305-883-5311
Automatic Radio Sales Inc Melrose MA.....	617-321-2300
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Aydin Radar & EW Div San Jose CA.....	408-629-1100
Basler Electric Co Highland IL.....	618-654-2341
Better Coil & Transformer Corp Goodland IN.....	219-297-3111
Bioron Electronics Co Canaan CT.....	203-824-5125
Carson Mfg Co Inc Indianapolis IN.....	317-257-3191
Chloride Electro Networks Caiedonia NY.....	716-538-4421
Coil Specialty Co State College PA.....	814-234-7044
Computer Power Inc High Bridge NJ.....	201-638-8000
Cord Electronics Inc Westbury NY.....	516-935-3640
Crompton Instruments Inc Elk Grove Village IL.....	312-593-1107
Crouse-Hinds Co Syracuse NY.....	315-477-7000
Dale Electronics Inc Yankton Div Yankton SD.....	605-665-9301
Del Electronics Corp Mt Vernon NY.....	914-699-2000
Deyoung Mfg Inc Kirkland WA.....	206-823-4798
Dietz Design Inc Belton MO.....	816-331-4911
Dormeyer Industries Chicago IL.....	312-283-4000
Dyco Electronics Inc Hornell NY.....	607-324-2030
Eastern Delta Corp Nutley NJ.....	201-667-8721
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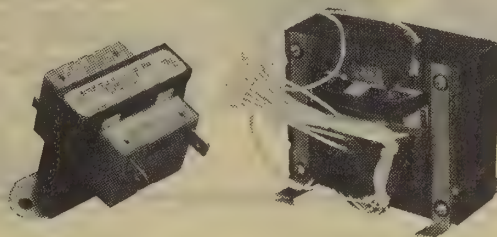
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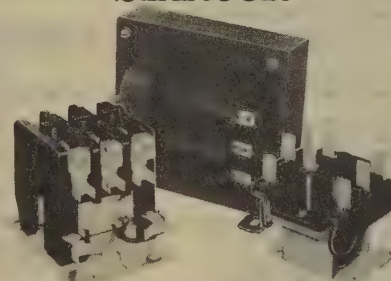
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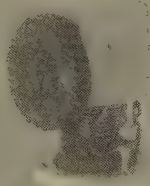
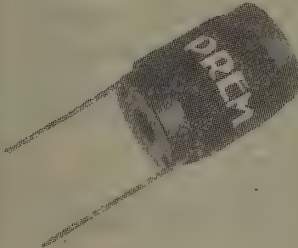
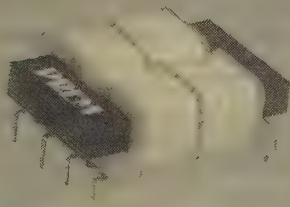
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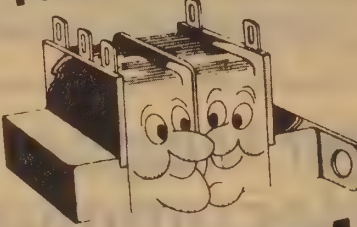
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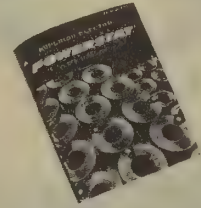


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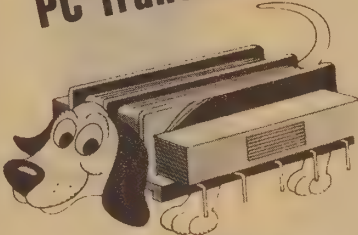


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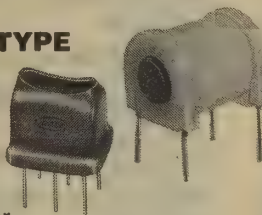
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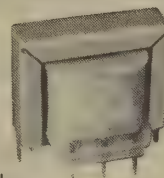
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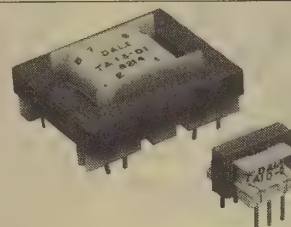
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Leonard Electric Products Co Brownsville TX	512-546-1625
Lestronics Inc Longmont CO	303-443-6250
Lorch Electronics Corp Englewood NJ	201-569-8282
Mag-Con Inc St Paul MN	612-633-8820
Magnetek Corp Boulder CO	303-442-6700
Magnetic Component Engineering Inc	
Culver City CA	213-398-4761
Magnetic Laboratories Apalachin NY	607-754-5800
Magnetico Inc Holtsville NY	516-654-1166
Megatron Electronic Power Bordentown NJ	609-298-7300
Midland-Ross Corp Midcom Unit	
Watertown SD	605-886-4385
Mid-West Transformer Co Grayslake IL	312-223-8686
Mini-Circuits Lab Brooklyn NY	718-934-4500
Minnesota Magnetic Coil Co Stacy	612-464-7714
Multi Products International Cedar Grove NJ	201-239-8183
Neshaminy Electronic Corp Furlong PA	215-794-7411
Newton Engineering Svc Inc Newton Hids MA	617-244-2725
North Hills Electronics Inc Glen Cove NY	516-671-5700

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OPT Industries Inc Phillipsburg NJ.....	201-454-2600
Pan-Magnetics Intl Inc Carson CA.....	213-532-1790
PCA Electronics Inc Sepulveda CA.....	818-892-0761
Pearson Electronics Inc Palo Alto CA.....	415-494-6444
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Picoecond Pulse Labs Inc Boulder CO.....	303-443-1249
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Sager Hingham MA.....	617-749-6700
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Stanford Applied Engineering Santa Clara CA.....	408-988-0700
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Toko America Inc Mt Prospect IL.....	312-297-0070
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Torotron Corp Mt Vernon NY.....	914-664-2050
Touch-Plate International Inc Paramount CA.....	213-636-8171
Trans American Transformer Inc Medford NY.....	516-654-1880
Triad-Ultra Huntington IN.....	219-356-6500
TRW Electronic Assemblies Div Wheeling IL.....	312-319-0500
Unitex Corp Indus Equip Oper Monrovia CA.....	818-574-7800
Valor Electronics Inc San Diego CA.....	619-458-1471
Vari-L Co Inc Denver CO.....	303-371-1560

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ADV PG 100	
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DALE ELECTRONICS INC YANTON DIV YANTON SD	605-665-9301
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HISONIC INC OLATHE KS	913-782-0012
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PICO ELECTRONICS INC MOUNT VERNON NY	914-699-5514
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PICONICS INC TYNGSBORO MA	617-649-7501
PREM MAGNETICS INC MCHENRY IL	815-385-2700
ADV PG 499	
T T E INC LOS ANGELES CA	213-478-8224
Adams-Russell Co Inc Anzac Div Burlington MA.....	617-273-3333
AID Electronics Inc Irving TX.....	214-790-4761
AIE Magnetics Div Vernitron Nashville TN.....	615-244-9024
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AT & T Components & Electronic Systems Allentown PA.....	800-372-2447
Automatic Coil Corp Hialeah FL.....	305-883-5311
Avtech Electro Systems Ltd Ottawa ON.....	613-226-5772
Aydin Radar & EW Div San Jose CA.....	408-629-1100
Barker & Williamson Bristol PA.....	215-788-5581
Bell Industries J W Miller Div Rancho Dominguez CA.....	213-537-5200
Bel-Tronics Corp Addison IL.....	312-543-7777
BH Electronics Burnsville MN.....	612-894-9590
Caddell-Burns Mfg Co Inc Mineola NY.....	516-746-2310
Caddell Coil Corp Poultney VT.....	802-287-4055
Coil-Q Corp Bronxville NY.....	914-337-4775
Coil Specialty Co State College PA.....	814-234-7044
Coil Winders Mineola NY.....	516-746-2310
Computer Components Inc Pelham NY.....	516-738-1611
Cord Electronics Inc Westbury NY.....	516-935-3640
Cramer Coil & Transformer Co Inc Saukville WI.....	414-284-9425
Custom Coils Inc Alcester SD.....	605-934-2460
Dale Electronics Inc Yantton Div Yantton SD.....	605-665-9301
Designatronics Inc Sub Automatic Coil New Hyde Park NY.....	516-328-3333
DeYoung Mfg Inc Kirkland WA.....	206-823-4798
Electro Impulse Lab Inc Red Bank NJ.....	201-741-0404
Electronic Coils Inc Springfield MA.....	413-736-6339
Electronic Navigation Industries Inc Rochester NY.....	716-427-8300
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International High Voltage Electronics Inc Danbury CT.....	203-792-7820
Jetronics Co Div J L Hall Co Inc Santa Rosa CA.....	707-544-2436

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T T E Inc Los Angeles CA.....	213-478-8224
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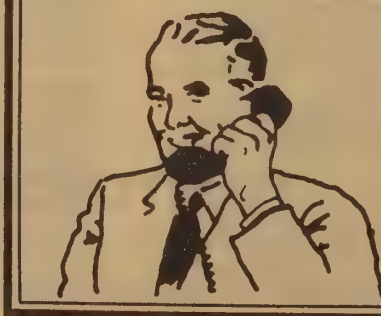
CADDELL-BURNS MFG CO INC MINEOLA NY	516-746-2310
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DALE ELECTRONICS INC YANTON DIV YANTON SD	605-665-9301
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ADV PG 337	
HISONIC INC OLATHE KS	913-782-0012
ADV PG 229	
INDUCTIVE PRODUCTS INC GARDEN GROVE CA	714-891-2500
ADV PG 227	
MICROTRAN CO INC VALLEY STREAM NY	516-561-6000
ADV PGS 492, 502	
PAN-MAGNETICS INTL INC CARSON CA	213-532-1790
ADV PG 493	
PREM MAGNETICS INC MCHENRY IL	815-385-2700
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SCHOTT CORP WAYZATA MN	612-475-1173
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ACDC Electronics Div Emerson Elec Co Oceanside CA.....	619-757-1800
Acme Electric Corp Olean NY.....	716-968-2400
American Magnetics Corp Cartersville IL.....	618-985-4800
Automatic Coil Corp Hialeah FL.....	305-883-5311
Axel Electronics Inc Jamaica NY.....	718-291-3900
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Coil Specialty Co State College PA.....	814-234-7044
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Dyco Electronics Inc Hornell NY.....	607-324-2000
Electrocube San Gabriel CA.....	213-573-3300
Electronic Transformer Corp Totowa NJ.....	201-942-2200
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Elma Engineering Palo Alto CA.....	415-494-7300
E W C Inc Kenilworth NJ.....	201-245-3200
Grand Transformers Inc Grand Haven MI.....	616-842-5400
Hisonic Inc Olathe KS.....	913-782-0012
Hyperion Industries Corp Watertown MA.....	617-926-0100
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Schott Corp Wayzata MN.....	612-475-1173
S K G Associates Inc Norwell MA.....	617-878-7200
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Sterling Transformer Corp Brooklyn NY.....	718-782-4200
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Torowico Electronics Inc Lakewood NJ.....	609-364-1800
Tranex Inc Sub Micro-Mask Inc Sunnyvale CA.....	408-732-0400
Trans American Transformer Inc Medford NY.....	516-654-1880
TRW Electronic Assemblies Div Wheeling IL.....	312-319-0500
Wayne Transformer Co Inc Paterson NJ.....	201-278-7600

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ADV PG 498	
CADDELL-BURNS MFG CO INC	
MINEOLA NY	516-746-2310
CADDELL COIL CORP POULTNEY VT	802-287-4055
DALE ELECTRONICS INC YANKTON DIV	
YANKTON SD	605-665-9301
ADV PG 503	
DEL ELECTRONICS CORP	
MT VERNON NY	914-699-2000
HISONIC INC OLATHE KS	913-782-0012
ADV PG 229	
INSTRUMENTS INC SAN DIEGO CA	619-571-1111
INTERELECTRONICS CORP CONGERS NY	914-358-8000
MICROTRAN CO INC VALLEY STREAM NY	516-561-6050
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MULTI PRODUCTS INTERNATIONAL	
CEDAR GROVE NJ	201-239-8183
PAN-MAGNETICS INTL INC CARSON CA	213-532-1790
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PEARSON ELECTRONICS INC	
PALO ALTO CA	415-494-6444
ADV PG 283	
PICO ELECTRONICS INC	
MOUNT VERNON NY	914-699-5514
ADV PG 490	
PICONICS INC TYNGSBORO MA	617-649-7501
PREM MAGNETICS INC MCHENRY IL	815-385-2700
ADV PG 499	
RCD COMPONENTS INC	
MANCHESTER NH	603-669-0054
SCHOTT CORP WAYZATA MN	612-475-1173
ADV PGS 495,505	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
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ADV PGS 500,502,505	
ULVECO ELECTRONICS INC	
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ADV PG 507	
Abacus Controls Inc Somerville NJ	201-526-6010
Abbott Transistor Labs Inc Los Angeles CA	213-936-8185
Abbott Transistor Transformer Div	
Burbank CA	818-841-3630
ADCDC Electronics Div Emerson Elec Co	
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AIE Magnetics Div Vernitron Nashville TN	615-244-9024
American Magnetics Corp Cartersville IL	618-985-4838
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Astrosystems Inc Lake Success NY	516-328-1600
Automatic Coil Corp Hialeah FL	305-883-5311
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Babcock Inc Orange CA	714-633-3700
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Bicron Electronics Co Canaan CT	203-824-5125
CaddeLL-Burns Mfg Co Inc Mineola NY	516-746-2310
CaddeLL Coil Corp Poultny VT	802-287-4055
Chaltemp Instrument Inc Escondido CA	714-743-2800
Chloride Electro Networks Caledonia NY	716-538-4421
Coast Coil Co Los Angeles CA	213-936-6188
Coil Specialty Co State College PA	814-234-7044
Coil Winders Mineola NY	516-746-2310
Component Specialties Corp Temple City CA	213-287-3221
Component Components Inc Pelham NY	914-738-1611
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Crouse-Hinds Co Syracuse NY	315-477-7000
Custom Coil & Transformer Co	
Zanesville OH	614-452-6973
Dustin Coils Inc Alcester SD	605-934-2460
Dale Electronics Inc Yankton Div Yankton SD	605-665-9301
Del Electronics Corp Mt Vernon NY	914-699-2000
Deyoung Mfg Inc Kirkland WA	206-823-4798
Dormeyer Industries Chicago IL	312-283-4000
Douglas Randall Div Pawcatuck CT	802-247-6811
Jowly Electronics Co Brandon VT	607-324-2030
Joyo Electronics Inc Hornell NY	612-235-3360
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Electro-Mech Co Colorado Springs CO	413-736-6339
Electronic Coils Inc Springfield MA	201-942-2222
Electronic Transformer Corp Totowa NJ	607-797-1263
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Worthington OH	614-889-6152
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nterelectronics Corp Congers NY	914-358-8000
on Physics Co Div High Voltage Engrg	
Burlington MA	617-272-2800
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ini-Magnetics Co Inc Fremont CA	415-490-7500
Minnesota Magnetic Coil Co Stacy	612-464-7714

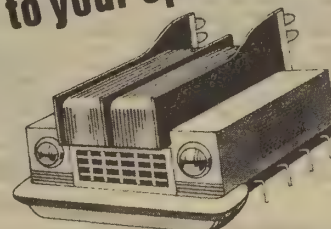
MTE Corp Milwaukee WI	414-358-5300
Multi Products International Cedar Grove NJ	201-239-8183
Nano Pulse Industries Inc Brea CA	714-259-2600
Neshaminy Electronic Corp Furlong PA	215-794-7411
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Nyco Transformer Co t/a New York Coil	
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P C Transformer Corp West Babylon NY	516-491-3300
Pearson Electronics Inc Palo Alto CA	415-494-6444
Perkin Elmer NA Inst Div Elctn Prods Dept	
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Piconics Inc Tyngsboro MA	617-649-7501
Polyphase Instrument Co Ft Washington PA	215-643-6950
Precision Electronics Inc Coplague NY	516-842-4900
Precision Inc Minneapolis MN	612-537-9340
Prem Magnetics Inc McHenry IL	815-385-2700
PTC Transformers Bordentown NJ	609-298-8200
RAF Magnetics Deland FL	904-736-1698
RCD Components Inc Manchester NH	603-669-0054
Rockwell Engineering Co Indianapolis IN	317-251-9453
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S K G Associates Inc Norwell MA	617-878-7250
SNC Mfg Inc Oshkosh WI	414-231-7370
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Torad Coil Co Inc Wayne NJ	201-835-6195
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Tranex Inc Sub Micro-Mask Inc Sunnyvale CA	408-732-0441
Trans American Transformer Inc Medford NY	516-654-1880
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Wayne Transformer Co Inc Paterson NJ	201-278-7674
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DEL ELECTRONICS CORP	
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ADV PG 490	
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Ensign Corp Burr Ridge IL	312-325-9343
ESC Electronics Corp Palisades Park NJ	201-947-0400
E W C Inc Kenilworth NJ	201-245-3200
Freed Transformer Co Inc Ridgewood NY	718-386-1300
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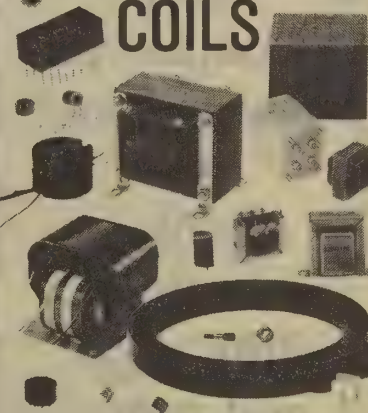
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Superior Electric Co The Bristol CT	203-582-9561
TDK Corp Tokyo Japan	03-278-5111
Technitrol Inc Philadelphia PA	215-426-9105
Teco Corp Winnisquam NH	603-524-1998
Telecrafters Corp Harrisburg PA	717-564-8993
Thordarson Meissner Inc Mt Carmel IL	618-262-5121
Torad Coil Co Inc Wayne NJ	201-835-6195
Torelco Inc Irvington NJ	201-374-8641
Toroid Corp of Maryland Bowie MD	301-464-2100
Torotol Products Inc Grandview MO	816-761-6314
Torotron Corp Mt Vernon NY	914-664-2050
Torwico Electronics Inc Lakewood NJ	609-364-1800
Trans American Transformer Inc Medford NY	516-654-1880
Triad-Utrad Div MagneTek Inc Huntington IN	219-356-7100
TRW Electronic Assemblies Div Wheeling IL	312-319-0500
T T E Inc Los Angeles CA	213-478-8224
Ulveco Electronics Inc Foster City CA	415-574-1100
Wayne Transformer Co Inc Paterson NJ	201-278-7674
Wilmore Electronics Co Inc Hillsborough NC	919-732-9351
Wintron Co Inc El Monte CA	818-448-3935

TRANSFORMERS—TV IMPEDANCE MATCHING

CADDELL-BURNS MFG CO INC	
MINEOLA NY	516-746-2310
CADDELL COIL CORP POULTNEY VT	802-287-4055
MULTI PRODUCTS INTERNATIONAL	
CEDAR GROVE NJ	201-239-8183
PAN-MAGNETICS INTL INC CARSON CA	213-532-1790
ADV PG 493	
PICONICS INC TYNGSBORO MA	617-649-7501
PREM MAGNETICS INC MCHENRY IL	815-385-2700
ADV PG 499	
TDK CORP TOKYO JAPAN	03-278-5111
T T E INC LOS ANGELES CA	213-478-8224
Bell Industries J W Miller Div	
Rancho Dominguez CA	213-537-5200
BH Electronics Burnsville MN	612-894-9590
CaddeLL-Burns Mfg Co Inc Mineola NY	516-746-2310
CaddeLL Coil Corp Poultney VT	802-287-4055
Custom Coils Inc Alcester SD	605-934-2460
Dormeyer Industries Chicago IL	312-283-4000
Edko Electronics Inc Great Neck NY	516-482-7358
Electrical Windings Inc Chicago IL	312-235-3360
Endicott Coil Co Inc Binghamton NY	607-797-1263
Ensign Corp Burr Ridge IL	312-325-9343
Forbes & Wagner Inc Silver Creek NY	716-934-2691
Histar Corp New York NY	212-679-2706
James Electronics Inc Chicago IL	312-463-6500
Magnetek Corp Boulder CO	303-442-6700
Magnetic Component Engineering Inc	
Culver City CA	213-398-4761
Magnetico Inc Holtville NY	516-654-1166
Multi Products International Cedar Grove NJ	201-239-8183
North Hills Electronics Inc Glen Cove NY	516-671-5700
NWL Transformers Bordenwood NJ	609-298-8200
Olektron Corp Webster MA	617-943-7440
Ora Electronics Div Alliance Rsch Corp	
Chatsworth CA	818-701-5848
Pan-Magnetics Int'l Inc Carson CA	213-532-1790
P C Transformer Corp West Babylon NY	516-491-3300
Philmore Mfg Co Inc Inwood NY	516-239-6161
Piconics Inc Tyngsboro MA	617-649-7501
Prem Magnetics Inc McHenry IL	815-385-2700
Radio Television Products Corp Douglas AZ	602-364-4438
S K G Associates Inc Norwell MA	617-878-7250
Smallwood Ltd S G Kitchener ON	519-894-2280
Staco Transpower Dayton OH	513-253-1191
Sterling Transformer Corp Brooklyn NY	718-782-4200
Sub-Tronics Inc Stacy MN	612-462-2541
Thordarson Meissner Inc Mt Carmel IL	618-262-5121
Trans American Transformer Inc Medford NY	516-654-1880
T T E Inc Los Angeles CA	213-478-8224

TRANSFORMERS—WIDEBAND

ABACUS CONTROLS INC SOMERVILLE NJ	
ADV PG 336	201-526-6010
CADDELL-BURNS MFG CO INC	
MINEOLA NY	516-746-2310
CADDELL COIL CORP POULTNEY VT	802-287-4055
ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
ESC ELECTRONICS CORP	
PALISADES PARK NJ	201-947-0400
HISONIC INC OLATHE KS	913-782-0012
ADV PG 229	
INSTRUMENTS INC SAN DIEGO CA	
MULTI PRODUCTS INTERNATIONAL	
CEDAR GROVE NJ	201-239-8183
PAN-MAGNETICS INTL INC CARSON CA	213-532-1790
ADV PG 493	
PEARSON ELECTRONICS INC	
PALO ALTO CA	415-494-6444
ADV PG 283	
PICO ELECTRONICS INC	
MOUNT VERNON NY	914-699-5514
ADV PG 490	
PICONICS INC TYNGSBORO MA	617-649-7501
PREM MAGNETICS INC MCHENRY IL	815-385-2700
ADV PG 499	
TDK CORP TOKYO JAPAN	03-278-5111
T T E INC LOS ANGELES CA	213-478-8224

Abacus Controls Inc Somerville NJ	201-526-6010
Adams-Russell Co Inc Anzac Div	
Burlington MA	617-273-3333
AIE Magnetics Div Vernitron Nashville TN	615-244-9024
American Magnetics Corp Carverville IL	618-985-4838
American Trans-Coil Corp Richmond Hill NY	718-441-5207
Avtech Electro Systems Ltd Ottawa ON	613-226-5772
Aydin Radar & EW Div San Jose CA	408-629-1100
Caddell-Burns Mfg Co Inc Mineola NY	516-746-2310
Caddell Coil Corp Poughkeepsie NY	802-287-4055
Ceramic Magnetics Inc Fairfield NJ	201-227-4222
Chloride Electro Networks Caledonia NY	716-538-4421
Coast Coil Co Los Angeles CA	213-936-6188
Coil-Q Corp Bronxville NY	914-337-4775
Coil Specialty Co State College PA	814-234-7044
Coil Winders Mineola NY	516-746-2310
Comdel Inc Beverly MA	617-927-3144
Communication Coil Co Chicago IL	312-637-1333
Deyoung Mfg Inc Kirkland WA	206-823-4798
Dietz Design Inc Belton MO	816-331-4911
Electrical Windings Inc Chicago IL	312-235-3360
Electronic Coils Inc Springfield MA	413-736-6339
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Electronic Transformer Corp Totowa NJ	201-942-2222
El-Rad Mfg Co Chicago IL	312-478-7300
Endicott Coil Co Inc Binghamton NY	607-797-1263
ESC Electronics Corp Palisades Park NJ	201-947-0400
E W C Inc Kenilworth NJ	201-245-3200
Forbes & Wagner Inc Silver Creek NY	716-934-2691
Hadley Co Inc Robert M Los Angeles CA	213-234-9091
Hisonic Inc Olathe KS	913-782-0012
Histar Corp New York NY	212-679-2706
Instruments Inc San Diego CA	619-571-1111
James Electronics Inc Chicago IL	312-463-6500
JB Electronic Transformers Inc Chicago IL	312-342-0080
K G S Electronics Pasadena CA	818-798-0786
Lorch Electronics Corp Englewood NJ	201-569-8282
Magnetek Corp Boulder CO	303-442-6700
Magnetic Circuit Elements Inc Salinas CA	408-757-8752
Magnetic Component Engineering Inc	
Culver City CA	213-398-4761
Magnetic Laboratories Apalachin NY	607-754-5800
Magneto Inc Holtsville NY	516-654-1166
Midland-Ross Corp Midcom Unit	
Watertown SD	605-886-4385
Midland-Ross Corp Midtex Div	
North Mankato MN	507-625-6521
Mini-Circuits Lab Brooklyn NY	718-934-4500
Mini-Magnetics Co Inc Fremont CA	415-490-7500
Multi Products International Cedar Grove NJ	201-239-8183
Newton Engineering Svc Inc Newton Hids MA	617-244-2725
North Hills Electronics Inc Glen Cove NY	516-671-5700
Northlake Engineering Inc Antioch IL	312-395-5710
Nova-Tronix Inc Santa Clara CA	408-727-9530
NWL Transformers Bordentown NJ	609-298-7300
Nyco Transformer Co t/a New York Coil	
Pottstown PA	215-327-4106
Olektron Corp Webster MA	617-943-7440
Pan-Magnetics Intl Inc Carson CA	213-532-1790
Para-Line Transformer Co Inc Alhambra CA	818-281-0222
PCA Electronics Inc Sepulveda CA	818-892-0761
Pearson Electronics Inc Palo Alto CA	415-494-6444
Pico Electronics Ltd Weston ON	416-741-7682
Pico Electronics Inc Mount Vernon NY	914-699-5514
Piconics Inc Tynegboro MA	617-649-7501
Pileosecond Pulse Labs Inc Boulder CO	303-443-1249
Polyphase Instrument Co Ft Washington PA	215-643-6950
Precision Inc Minneapolis MN	612-537-9340
Pro Magnetics Inc McHenry IL	815-385-2700
PTC Transformers Bordentown NJ	609-298-8200
Pulse Engineering Sub Varian San Diego CA	619-268-2400
Signalamp Inc Carson CA	213-327-4462
S K G Associates Inc Norwell MA	617-878-7250
Skyway Magnetics Warner Springs CA	619-782-3342
Smallwood Ltd S G Kitchener ON	519-894-2280
SNC Mfg Inc Oshkosh WI	414-231-7370
Sterling Transformer Corp Brooklyn NY	718-782-4200
Sub-Tronics Inc Stacy MN	612-462-2541
TDK Corp Tokyo Japan	03-278-5111
Technitrol Inc Philadelphia PA	215-426-9105
Teco Corp Winnisquam NH	603-524-1998
Telecrafters Corp Harrisburg PA	717-564-8993
Thoradson Meissner Inc Mt Carmel IL	618-262-5121
Trans American Transformer Inc Medford NY	516-654-1880
T T E Inc Los Angeles CA	213-478-8224
Vanguard Electronics Gardena CA	213-323-4100
Wayne Transformer Co Inc Paterson NJ	201-278-7674
Wide Band Engineering Co Inc Phoenix AZ	602-254-1570

TRANSFORMER WINDINGS

See Coils Windings Only

TRANSISTOR ARRAYS—MONOLITHIC
(EXCEPT OPTOELECTRONIC)

Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Calmos Systems Inc Kanata ON	613-836-1014
Dionics Inc Westbury NY	516-997-7474
Ferranti Electric Inc Semi-Conductor Group	
Commack NY	516-543-0200
Harris Semiconductor Melbourne FL	305-724-7418
MCE Semiconductor Inc West Palm Beach FL	305-845-2837
Mitsubishi Electronics Amer Inc Semiconductor Div	
Sunnyvale CA	408-730-5900
Modular Devices Inc Bohemia NY	516-567-9620
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
National Semiconductor Corp Santa Clara CA	408-721-5000
RCA Solid State Div Somerville NJ	201-685-8000
Sollitron Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Sprague Electric Co Lexington MA	617-862-5500
Sprague Electric Integrated Circuits Div	
Worcester MA	617-853-5000

Supertex Inc Sunnyvale CA	408-744-0100
Texas Instruments Optoelectronics Dallas TX	214-995-6611

TRANSISTOR PACKAGES

See Package Parts; Packages

TRANSISTOR PARTS—CLIPS

Accessories for Electronics Inc Baldwin NY	516-546-1751
Atlee Inc North Andover MA	617-681-1003
Globe Plastics Inc Pomona CA	714-623-2747
Heraeus-Volkert Inc Queens Village NY	718-464-8400
Microwave Semiconductor Corp Somerset NJ	201-469-3311
National Beryllia Div/General Ceramics Inc	
Haskell NJ	201-839-1600
Ross Co Milton Southampton PA	215-355-0200
Siliconix Inc Santa Clara CA	408-988-8000
Sollitron Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311

TRANSISTOR PARTS—HOLDERS

SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Accessories for Electronics Inc Baldwin NY	516-546-1751
Atlee Inc North Andover MA	617-681-1003
Bivar Inc Irvine CA	714-951-8808
Frenchtown Ceramics Co Frenchtown NJ	201-996-2121
International Electronic Research Corp	
Burbank CA	213-849-2481
Micro-Mounting Devices Inc Campbell CA	408-866-4626
National Beryllia Div/General Ceramics Inc	
Haskell NJ	201-839-1600
Ross Co Milton Southampton PA	215-355-0200
Sager Hingham MA	617-749-6700
Schott Electronics Ansonia CT	203-736-2677
Teknol Industries Inc Rochester NY	716-232-1291
Thermalloy Inc Dallas TX	214-243-4321

TRANSISTOR PARTS—MOUNTINGS

CONCORD ELECTRONICS CORP	
NEW YORK NY	212-777-6571
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Accessories for Electronics Inc Baldwin NY	516-546-1751
Asheville-Schoonmaker Mica Co	
Newport News VA	804-244-7311
Atlee Inc North Andover MA	617-681-1003
Bivar Inc Irvine CA	714-951-8808
Blinn Co Inc Delbert Pomona CA	213-628-8794
Concord Electronics Corp New York NY	212-777-6571
Do-Rite Mfg Co Elmwood Park NJ	201-796-1902
Frenchtown Ceramics Co Frenchtown NJ	201-996-2121
Globe Plastics Inc Pomona CA	714-623-2747
International Electronic Research Corp	
Burbank CA	213-849-2481
Micro-Mounting Devices Inc Campbell CA	408-866-4626
Molex Inc Lisle IL	312-969-4550
Robison Electronics Inc San Luis Obispo CA	805-544-8000
Ross Co Milton Southampton PA	215-355-0200
Sager Hingham MA	617-749-6700
Schott Electronics Ansonia CT	203-736-2677
Teknol Industries Inc Rochester NY	716-232-1291
Thermalloy Inc Dallas TX	214-243-4321
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

TRANSISTOR PARTS—PADS

CONCORD ELECTRONICS CORP	
NEW YORK NY	212-777-6571
Accessories for Electronics Inc Baldwin NY	516-546-1751
Bergquist Co Minneapolis MN	612-835-2322
Bivar Inc Irvine CA	714-951-8808
Blinn Co Inc Delbert Pomona CA	213-628-8794
Chomerics Inc Woburn MA	617-935-4850
Concord Electronics Corp New York NY	212-777-6571
D-Cemco Inc Burbank CA	213-849-6341
Globe Plastics Inc Pomona CA	714-623-2747
Mini-Systems Inc No Attleboro MA	617-695-0203
Moldtronics Inc Downers Grove IL	312-968-7000
Plastiglide Mfg Corp Hawthorne CA	213-777-8108
Robison Electronics Inc San Luis Obispo CA	805-544-8000
Ross Co Milton Southampton PA	215-355-0200
Samtec Inc New Albany IN	812-944-6733
Sollitron Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Spruce Pine Mica Co Inc Spruce Pine NC	704-765-4241
Teknol Industries Inc Rochester NY	716-232-1291
Thermalloy Inc Dallas TX	214-243-4321

TRANSISTORS, GERMANIUM—AUDIO &
AUDIO POWER

ALMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
AMERICAN MICROSEMICONDUCTOR INC	
MADISON NJ	201-377-9566
ADV PG 162	
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
PHILIPS ECG INC WALTHAM MA	617-890-6107
ADV PG 511	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700

Advanced Semiconductor Inc	
North Hollywood CA	818-982-1200
Almo Electronics Inc Philadelphia PA	215-698-4000
Alpha Electronics Inc Brooklyn NY	718-633-2800
American Microsemiconductor Inc	
Madison NJ	201-377-9566
Germanium Power Devices Corp Andover MA	617-475-5985
Lectron Industries Inc Roselle NJ	201-245-5850
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
New Jersey Semi-Conductor Products Inc	
Springfield NJ	201-376-2922
NTE Electronics Inc Bloomfield NJ	201-748-5080
Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	04079111
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Semiconductor Products Inc Lawrence MA	617-686-0197
Semiconductor Technology Inc Stuart FL	305-283-4500
Shokai Far East Ltd Hartsdale NY	914-681-0700
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

TRANSISTORS, GERMANIUM—RF
POWER (EXCEPT MICROWAVE)

ALMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
AMERICAN MICROSEMICONDUCTOR INC	
MADISON NJ	201-377-9566
ADV PG 162	
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
Advanced Semiconductor Inc	
North Hollywood CA	818-982-1200
Almo Electronics Inc Philadelphia PA	215-698-4000
Alpha Electronics Inc Brooklyn NY	718-633-2800
American Microsemiconductor Inc	
Madison NJ	201-377-9566
Germanium Power Devices Corp Andover MA	617-475-5985
Hewlett-Packard Palo Alto CA	415-857-8000
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
NTE Electronics Inc Bloomfield NJ	201-748-5080
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Semiconductor Products Inc Lawrence MA	617-686-0197
Semiconductor Technology Inc Stuart FL	305-283-4500
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

TRANSISTORS, GERMANIUM—SMALL
SIGNAL

ALMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
AMERICAN MICROSEMICONDUCTOR INC	
MADISON NJ	201-377-9566
ADV PG 162	
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
PHILIPS ECG INC WALTHAM MA	617-890-6107
ADV PG 511	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
Advanced Semiconductor Inc	
North Hollywood CA	818-982-1200
Almo Electronics Inc Philadelphia PA	215-698-4000
Alpha Electronics Inc Brooklyn NY	718-633-2800
American Microsemiconductor Inc	
Madison NJ	201-377-9566
Germanium Power Devices Corp Andover MA	617-475-5985
Hewlett-Packard Palo Alto CA	415-857-8000
International Devices Div Pacesetter Elctns	
Anaheim CA	714-777-4711
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
NEC Electronics Inc Mtn View CA	415-960-6000
New Jersey Semi-Conductor Products Inc	
Springfield NJ	201-376-2922
NTE Electronics Inc Bloomfield NJ	201-748-5080
Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	04079111
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Semiconductor Products Inc Lawrence MA	617-686-0197
Semiconductor Technology Inc Stuart FL	305-283-4500
Shokai Far East Ltd Hartsdale NY	914-681-0700
Solid State Devices Inc La Mirada CA	213-921-9666
Solid State Electronics Corp Northridge CA	818-993-8257
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

TRANSISTORS,
GERMANIUM—SWITCHING

ALMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
AMERICAN MICROSEMICONDUCTOR INC	
MADISON NJ	201-377-9566
ADV PG 162	
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
PHILIPS ECG INC WALTHAM MA	617-890-6107
ADV PG 511	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257

Advanced Semiconductor Inc	
North Hollywood CA	818-982-1202
Almo Electronics Inc Philadelphia PA	215-698-4000
Alpha Electronics Inc Brooklyn NY	718-633-2800
American Microsemiconductor Inc	
Madison NJ	201-377-9566
Argent Industries Inc Englewood OH	513-936-8633
Meta Control Ltd Fiberoptics Div	
Palo Alto CA	415-494-1350
Germanium Power Devices Corp Andover MA	617-475-5982
Jewlett-Packard Palo Alto CA	415-857-8000
Electron Industries Inc Roselle NJ	201-245-5858
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
New Jersey Semi-Conductor Products Inc	
Springfield NJ	201-376-2922
NTE Electronics Inc Bloomfield NJ	201-748-5089
Philips ECG Inc Waltham MA	617-890-6107
Semiconductor Products Inc Lawrence MA	617-686-0197
Semiconductor Technology Inc Stuart FL	305-283-4500
Shokai Far East Ltd Hartsdale NY	914-681-0700
Solid State Devices Inc La Mirada CA	213-921-9660
Solid State Electronics Corp Northridge CA	818-993-8257
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

TRANSISTORS—MICROWAVE

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ADV PG 510	
ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
AEG Corporation Somerville NJ	201-722-9800
Alpha Electronics Inc Brooklyn NY	718-633-2800
Alpha Industries Inc Woburn MA	617-935-5150
Avantek Inc Santa Clara CA	408-496-6710
ipson-Lambda Electronics Corp Geneva IL	312-232-9611
Jewlett-Packard Palo Alto CA	415-857-8000
Hughes Aircraft Co Microwave Prods Div	
Torrance CA	213-517-6400
Electron Industries Inc Roselle NJ	201-245-5858
A/COM Advanced Semiconductor Oper	
Burlington MA	617-272-3000
A/COM Semiconductor Prods Inc	
Burlington MA	617-272-3000
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
Microwave Semiconductor Corp Somerset NJ	201-469-3311
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Semicoa Costa Mesa CA	714-979-1900
Siemens Components Inc Iselin NJ	201-321-3400
Soliton Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
exas Instruments Optoelectronics Dallas TX	214-995-6611
W RF Devices Div Lawndale CA	213-536-0888
arian Electronic Device Group Palo Alto CA	415-493-4000

TRANSISTORS—PHOTO

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ADV PG 510	
ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
LAIREX ELECTRONICS DIV CLAIREX CORP	
MT VERNON NY	914-664-6602
ADV PG 299	
G&G VACTEC ST LOUIS MO	314-423-4900
ADV PG 317	
GENERAL INSTRUMENT/OPTOELECTRONICS DIV	
PALO ALTO CA	415-493-0400
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
PHILIPS ECG INC WALTHAM MA	617-890-6107
ADV PG 511	
HOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
BM Semiconductor Inc San Jose CA	408-297-7477
AEG Corporation Somerville NJ	201-722-9800
Alpha Electronics Inc Brooklyn NY	718-633-2800
Lairex Electronics Div Clairex Corp	
Mt Vernon NY	914-664-6602
Meta Control Ltd Fiberoptics Div	
Palo Alto CA	415-494-1350
lyneer Sensor Technology Chatsworth CA	818-882-4100
G & G Vactec St Louis MO	314-423-4900
Ferranti Electric Inc Semi-Conductor Group	
Commack NY	516-543-0200
General Electric Semiconductor Syracuse NY	315-456-3447
General Instrument/Optoelectronics Div	
Palo Alto CA	415-493-0400
oneywell Optoelectronics Richardson TX	214-234-4271
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
firopac Ind Inc Garland TX	214-272-3571
Totorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
New Jersey Semi-Conductor Products Inc	
Springfield NJ	201-376-2922
NTE Electronics Inc Bloomfield NJ	201-748-5089
itek Technology Inc McKinney TX	214-542-9481
Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
ensor Technology Inc Chatsworth CA	213-882-4100
hokai Far East Ltd Hartsdale NY	914-681-0700
ilicon Sensors Inc Dodgeville WI	608-935-2707
Solid State Electronics Corp Northridge CA	818-993-8257
prague Electric Co Lexington MA	617-862-5500
eledyne Crystalonics Cambridge MA	617-491-1670
elefunken electronic Heilbronn West Germany	07131 8821
exas Instruments Optoelectronics Dallas TX	214-995-6611

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TRW Optoelectronics Div Carrollton TX	214-323-2200
United Detector Technology Hawthorne CA	213-978-0516

TRANSISTORS—SENSOR &
TRANSDUCER TYPES (EXCEPT
PHOTO)

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ADV PG 510	
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA	818-993-8257
AEG Corporation Somerville NJ	201-722-9800
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
New Jersey Semi-Conductor Products Inc	
Springfield NJ	201-376-2922
Silicon Sensors Inc Dodgeville WI	608-935-2707
Solid State Electronics Corp Northridge CA	818-993-8257

TRANSISTORS, SILICON—AUDIO &
AUDIO POWER

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ADV PG 510	
ALMO ELECTRONICS INC	
PHILADELPHIA PA	215-698-4000
ADV PG Green Pages	
ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
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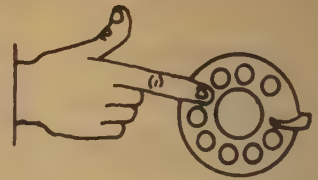
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Philips ECG

A North American Philips Company

National Semiconductor Corp Santa Clara CA	408-721-5000
NEC Electronics Inc Mtn View CA	415-960-6000
New Jersey Semi-Conductor Products Inc	
Springfield NJ	201-376-2922
NTE Electronics Inc Bloomfield NJ	201-748-5089
Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Sager Hingham MA	617-749-6700
Sanyo Semiconductor Corp Allendale NJ	201-825-8080
Semicoa Costa Mesa CA	714-979-1900
Semiconductor Products Inc Lawrence MA	617-686-0197
Semiconductor Technology Inc Stuart FL	305-283-4500
SGS Semiconductor Corp Phoenix AZ	602-867-6100
Shokai Far East Ltd Hartsdale NY	914-681-0700
Siliconix Components Inc Iselin NJ	201-321-3400
Siliconix Inc Santa Clara CA	408-988-8000
SMD Technology Center Milwaukee WI	414-228-7632
Solid State Devices Inc La Mirada CA	213-921-9660
Solid State Electronics Corp Northridge CA	818-993-8257
Soltron Devices Inc Semiconductor Group	
Riviera Beach FL	305-848-4311
Sprague Electric Co Lexington MA	617-862-5500
Supertex Inc Sunnyvale CA	408-744-0100
Teddyne Crystalonics Cambridge MA	617-491-1670
Texas Instruments Optoelectronics Dallas TX	214-995-6611
Text Semiconductors Allen TX	214-727-1111
Transistor Specialties Inc Danvers MA	617-774-8722
TRW RF Devices Div Lawndale CA	213-536-0888
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

TRANSISTORS—TETRODE

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
Alpha Electronics Inc Brooklyn NY	718-633-2800
Boiotin Assocs Inc Woodland Hills CA	213-340-8552
Boiotin Electronic Co Atlantic Highlands NJ	201-291-1600
Telefunken electronic Heilbronn West Germany	07131 8821

TRANSISTORS—UNIUNCTION

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
AMERICAN MICROSEMICONDUCTOR INC	
MADISON NJ	201-377-9566
ADV PG 162	
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
PHILIPS ECG INC WALTHAM MA	617-890-6107
ADV PG 511	
UNITRODE CORP LEXINGTON MA	617-861-6540

Advanced Semiconductor Inc	
North Hollywood CA	818-982-1202
Alpha Electronics Inc Brooklyn NY	718-633-2800
American Microsemiconductor Inc	
Madison NJ	201-377-9566
General Electric Semiconductor Syracuse NY	315-456-3447
Germanium Power Devices Corp Andover MA	617-475-5982
Lectron Industries Inc Roselle NJ	201-245-5858
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
Motorola Semiconductor Products Inc	
Phoenix AZ	602-244-6900
New Jersey Semi-Conductor Products Inc	
Springfield NJ	201-376-2922
NTE Electronics Inc Bloomfield NJ	201-349-3300
Philips ECG Inc Waltham MA	617-890-6107
Semiconductor Products Inc Lawrence MA	617-686-0197
Solid State Devices Inc La Mirada CA	213-921-9660
Texas Instruments Optoelectronics Dallas TX	214-995-6811
Uniltron Corp Lexington MA	617-861-6540
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

TRANSISTOR TESTERS

See Testers

TRANSITIONS—COAXIAL

Alpha Industries Inc Woburn MA	617-935-5150
Andrew Corp Orland Park IL	312-349-3300
Arra Inc Bay Shore NY	516-231-8400
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Dielectric Commun Unit General Signal	
Raymond ME	207-655-4555
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
M/A COM Omni Spectra Inc Merrimack NH	603-424-4111
Maury Microwave Corp Cucamonga CA	714-987-4715
Microwave Engineering Corp	
North Andover MA	617-685-2776
Transco Products Inc Camarillo CA	805-987-2201
Tru-Connector Corp Peabody MA	617-532-0775
Victor Microwave Inc Wakefield MA	617-245-4472

TRANSITIONS—WAVEGUIDE

Alpha Industries Inc Woburn MA	617-935-5150
Andrew Corp Orland Park IL	312-349-3300
Arra Inc Bay Shore NY	516-231-8400
Chomerics Inc Woburn MA	617-935-4850
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Dielectric Commun Unit General Signal	
Raymond ME	207-655-4555
Gabriel Electronics Inc Scarborough ME	207-883-5161
Gamma-F Corp Torrance CA	213-539-6704
Harris Corp Govt Support Sys Div	
Syosset NY	516-364-0400
Hewlett-Packard Palo Alto CA	415-857-8000
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
Maury Microwave Corp Cucamonga CA	714-987-4715
Microwave Engineering Corp	
North Andover MA	617-685-2776
Premier Microwave Corp Port Chester NY	914-939-8900
Transco Products Inc Camarillo CA	805-987-2201
Varian Electron Device Group Palo Alto CA	415-493-4000
Victor Microwave Inc Wakefield MA	617-245-4472

TRANSLATORS—TELEMETRY

SOLID STATE ELECTRONICS CORP	
NORTHDRIDGE CA	818-993-8257
Aydin Vector Div Newtown PA	215-968-4271
Control Technology Div AirBorn Elect Corp	
Garland TX	214-272-5544
Datum Inc Timing/AACOM Divs Anaheim CA	714-533-6333
Fairchild Weston Systems Inc Sarasota FL	813-371-0811
Klinger Scientific Corp Richmond Hill NY	718-846-3700
Loral Data Systems/Conic San Diego CA	619-279-0411
Mu-Del Electronics Inc Silver Spring MD	301-587-6087
Ocean Technology Inc Burbank CA	213-849-7111
Precision Filters Inc Ithaca NY	607-277-3550
Solid State Electronics Corp Northridge CA	818-993-8257
TRW Microwave Sunnyvale CA	408-732-0880

TRANSMISSION-LINE DELAYS

See Delay Cable; Delay Lines

TRANSMISSION LINES—RIGID CONTROL

See Also Cables; Waveguide

Andrew Corp Orland Park IL	312-349-3300
Decibel Products Inc Dallas TX	214-631-0310
Microwave Development Labs Inc Natick MA	617-655-0060

TRANSMISSION TEST SETS

See Test Sets

TRANSMITTER—BROADCAST, RADIO

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Broadcast Electronics Inc Quincy IL	217-224-9600
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Nautical Electronic Labs Ltd	
Hacketts Cove NS	902-823-2233
NEC America Inc Melville NY	516-753-7000
NPC Electronics New Brighton MN	612-633-4591
NSD Los Alamitos CA	714-527-4896
Roanwell Corp New York NY	212-989-1090
Roberts Security & Page Service	
Torrance CA	213-378-0451
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Tele Measurements Inc Clifton NJ	201-473-8822
TTC/Television Technology Corp	
Broomfield CO	303-465-4141

TRANSMITTERS—BROADCAST, TV

AEG CORPORATION SOMERVILLE NJ	201-722-9800
Aerodyne Industries Inc Blue Bell PA	215-542-7000
AEG Corporation Somerville NJ	201-722-9800
American Laser Systems Inc Goleta CA	805-967-0423
Applied Research Inc Plainview NY	516-349-9200
Aptron Labs Inc Bloomington IN	812-336-4775
NEC America Inc Melville NY	516-753-7000
NSD Los Alamitos CA	714-527-4896
Nurad Inc Baltimore MD	301-462-1700
RCA Broadcast Systems Gillsboro NJ	609-435-2800
Roanwell Corp New York NY	212-989-1090
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
TTC/Television Technology Corp	
Broomfield CO	303-465-4141
Varian Electron Device Group Palo Alto CA	415-493-4000

TRANSMITTERS—MICROWAVE

See Microwave Systems

TRANSMITTERS—RADAR

See Radar Systems

TRANSMITTERS, RADIO COMMUNICATIONS—AIRCRAFT, VOICE (AIR OR GROUND)

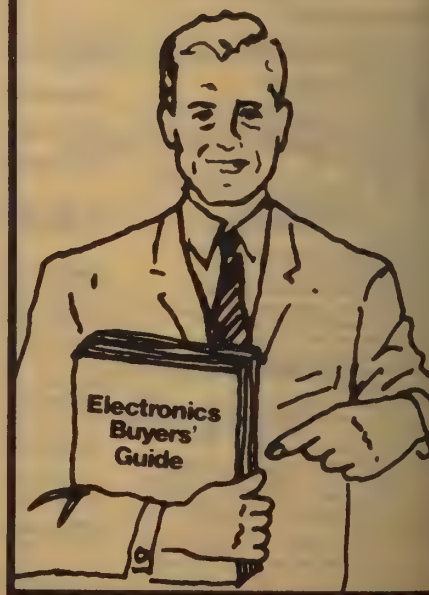
Astronautics Corp of America Milwaukee WI	414-447-8200
Bendix Air Transport Avionics Div	
Ft Lauderdale FL	305-928-2100
B F Electronics Solana Beach CA	619-755-1881
Communication Associates Inc	
Huntington Station NY	516-271-0800
Dayton Granger Inc Ft Lauderdale FL	305-463-3451
Genave Inc Indianapolis IN	317-262-2000
General Aviation Electronics Inc	
Indianapolis IN	317-262-2000
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Johnson Co E F/Radio Products Div	
Waseca MN	507-835-6222
Johnson International E F Waseca MN	507-835-6222
Kahn Communications Inc Westbury NY	516-222-2221
LaPointe Industries Inc Rockville CT	203-872-8581
Nautical Electronic Labs Ltd	
Hacketts Cove NS	902-823-2233
NSD Los Alamitos CA	714-527-4896
RCA Government Systems Div Cherry Hill NJ	609-338-3000
Roanwell Corp New York NY	212-989-1090
Rockwell Intl Corp Commercial Elctns Opers	
Richardson TX	214-996-5000
SCI Systems Inc Huntsville AL	205-882-4800
Southern Avionics Co Beaumont TX	409-842-1717
Sperry Corp Aerospace & Marine Group	
Phoenix AZ	602-869-2311
Thomson CSF Inc White Plains NY	914-694-4450

TRANSMITTERS, RADIO COMMUNICATIONS—A-M, FIXED STATION

AEG CORPORATION SOMERVILLE NJ	201-722-9800
AEG Corporation Somerville NJ	201-722-9800
Aerocom Miami FL	305-448-6503
B F Electronics Solana Beach CA	619-755-1881
Communication Associates Inc	
Huntington Station NY	516-271-0800
Comstron Corp Freeport NY	516-546-9700
Continental Electronics Div Varian Assoc	
Dallas TX	214-381-7161
Johnson International E F Waseca MN	507-835-6222
Kahn Communications Inc Westbury NY	516-222-2221
LaPointe Industries Inc Rockville CT	203-872-8581
Nautical Electronic Labs Ltd	
Hacketts Cove NS	902-823-2233
NEC America Inc Melville NY	516-753-7000
Oklahoma Aerotronics Inc Hartshorne OK	918-297-2566
RCA Government Systems Div Cherry Hill NJ	609-338-3000
Roberts Security & Page Service	
Torrance CA	213-378-0451
Southern Avionics Co Beaumont TX	409-842-1717
Tele Measurements Inc Clifton NJ	201-473-8822
Thomson CSF Inc White Plains NY	914-694-4450

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telephone
numbers,
names of person
to contact,
numbers of
engineers,
employees and
sales volume,
sales offices and
distributors!



TRANSMITTERS, RADIO COMMUNICATIONS—AMATEUR

EHRRHORN TECHNOLOGICAL OPERATIONS INC	
CANON CITY CO.....	303-275-1613
ADV PG 17	
Apron Labs Inc Bloomington IN.....	812-336-4775
Decibel Products Inc Dallas TX.....	214-631-0310
Ehrrhorn Technological Operations Inc	
Canon City CO.....	303-275-1613
Heath Co Benton Harbor MI.....	616-982-3200
oral TerraCom San Diego CA.....	619-278-4100
Roberts Security & Page Service	
Torrance CA.....	213-378-0451
Rockwell Intl Corp Commerical Elctns Opers	
Richardson TX.....	214-996-5000
Ten-Tec Inc Sevierville TN.....	615-453-7172

TRANSMITTERS, RADIO COMMUNICATIONS—CITIZENS' BAND

Roberts Security & Page Service	
Torrance CA.....	213-378-0451
Westport Dev & Mfg Co Inc Orange CT.....	203-795-0871

TRANSMITTERS, RADIO COMMUNICATIONS—FLIGHT TEST & TELEMETRY

See Communications Systems

TRANSMITTERS, RADIO COMMUNICATIONS—FM, FIXED STATION

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
3 F Electronics Solana Beach CA.....	619-755-1881
Cardion Electronics Communications	
Holtsville NY.....	516-289-6200
Comstron Corp Freeport NY.....	516-546-9700
Continental Electronics Div Varian Assoc	
Dallas TX.....	214-381-7161
Genave Inc Indianapolis IN.....	317-262-2000
General Elec Co Mobile Communications Div	
Lynchburg VA.....	804-528-7000
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
tech Inc Santa Clara CA.....	408-727-0500
Johnson Co E F/Radio Products Div	
Waseca MN.....	507-835-6222
Johnson International E F Waseca MN.....	507-835-6222
Point Industries Inc Rockville CT.....	203-872-8581
oral TerraCom San Diego CA.....	619-278-4100
Art Electronics Inc Cleburne TX.....	817-645-9163
oseley Associates Inc Goleta CA.....	805-968-9621
EC America Inc Melville NY.....	516-753-7000
PCA Electronics New Brighton MN.....	612-633-4591
SD Los Alamitos CA.....	714-527-4896
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Regency Electronics Inc Indianapolis IN.....	317-545-4281
Repro Inc Orlando FL.....	305-843-8484
Ring Group of North America Great Neck NY.....	516-487-0250
Robard Electronics Div Nealar Corp	
New Rochelle NY.....	914-235-8073
outhern Avionics Co Beaumont TX.....	409-842-1717
Wintek Enterprises Campbell CA.....	408-378-8091
ele Measurements Inc Clifton NJ.....	201-473-8822
Thomson CSF Inc White Plains NY.....	914-694-4450

TRANSMITTERS, RADIO COMMUNICATIONS—LAND MOBILE

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
ACR Electronics Inc Ft Lauderdale FL.....	305-981-3333
AEG Corporation Somerville NJ.....	201-722-9800
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Astronautics Corp of America Milwaukee WI.....	414-447-8200
Communication Associates Inc	
Huntington Station NY.....	516-271-0800
Comstron Corp Freeport NY.....	516-546-9700
Decibel Products Inc Dallas TX.....	214-631-0310
argo Co San Francisco CA.....	415-621-1447
Genave Inc Indianapolis IN.....	317-262-2000
General Elec Co Mobile Communications Div	
Lynchburg VA.....	804-528-7000
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
tech Inc Santa Clara CA.....	408-727-0500
International Crystal Mfg Co Inc	
Oklahoma City OK.....	405-236-3741
Johnson Co E F/Radio Products Div	
Waseca MN.....	507-835-6222
Johnson International E F Waseca MN.....	507-835-6222
el Corp Melrose MA.....	617-662-2222
Point Industries Inc Rockville CT.....	203-872-8581
Art Electronics Inc Anderson IN.....	317-642-7976
oseley Associates Inc Goleta CA.....	805-968-9621
EC America Inc Melville NY.....	516-753-7000
okia-Kinex Largo FL.....	813-561-6404
SD Los Alamitos CA.....	714-527-4896
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Regency Electronics Inc Indianapolis IN.....	317-545-4281
Repro Inc Orlando FL.....	305-843-8484
Roberts Security & Page Service	
Torrance CA.....	213-378-0451

Rockwell Intl Corp Commerical Elctns Opers	
Richardson TX.....	214-996-5000
Southern Avionics Co Beaumont TX.....	409-842-1717
Stoner Communications Inc	
Rancho Cucamonga CA.....	714-987-4624
Thomson CSF Inc White Plains NY.....	914-694-4450

TRANSMITTERS, RADIO COMMUNICATIONS—MARINE

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
EHRRHORN TECHNOLOGICAL OPERATIONS INC	
CANON CITY CO.....	303-275-1613
ADV PG 17	
ACR Electronics Inc Ft Lauderdale FL.....	305-981-3333
AEG Corporation Somerville NJ.....	201-722-9800
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Communication Associates Inc	
Huntington Station NY.....	516-271-0800
Continental Electronics Div Varian Assoc	
Dallas TX.....	214-381-7161
Dayton Granger Inc Ft Lauderdale FL.....	305-463-3451
Decibel Products Inc Dallas TX.....	214-631-0310
Ehrrhorn Technological Operations Inc	
Canon City CO.....	303-275-1613
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Furuno USA Inc So San Francisco CA.....	415-873-9393
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Intech Inc Santa Clara CA.....	408-727-0500
Kahn Communications Inc Westbury NY.....	516-222-2221
Loral TerraCom San Diego CA.....	619-278-4100
Nautical Electronic Labs Ltd	
Hacketts Cove NS.....	902-823-2233
NSD Los Alamitos CA.....	714-527-4896
Regency Electronics Inc Indianapolis IN.....	317-545-4281
Repro Inc Orlando FL.....	305-843-8484
Roberts Security & Page Service	
Torrance CA.....	213-378-0451
Scientific Radio Systems Inc Rochester NY.....	716-458-3733

TRANSMITTERS, RADIO COMMUNICATIONS—MICROWAVE (ABOVE UHF RADIO)

See Microwave Communications Listings

TRANSMITTERS, RADIO COMMUNICATIONS—MILITARY SPECIAL CODE

See Communications Systems—Military

TRANSMITTERS, RADIO COMMUNICATIONS—MULTIPLEX CARRIER

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Aydin Vector Div Newtown PA.....	215-968-4271
Cardion Electronics Div Gen Signal Corp	
Woodbury NY.....	516-921-7300
Karkar Electronics Inc San Francisco CA.....	415-552-1247
Loral Data Systems/Conic San Diego CA.....	619-279-0411
Moseley Associates Inc Goleta CA.....	805-968-9621
NEC America Inc Melville NY.....	516-753-7000
NSD Los Alamitos CA.....	714-527-4896
Rockwell Intl Corp Commerical Elctns Opers	
Richardson TX.....	214-996-5000
TRW Microwave Sunnyvale CA.....	408-732-0880
West Coast Research Corp Los Angeles CA.....	213-478-8833

TRANSMITTERS, RADIO COMMUNICATIONS—PULSE MODULATION

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
MICROWAVE CONTROL DIV MICON INC	
BRICK NJ.....	201-458-3000
AEG Corporation Somerville NJ.....	201-722-9800
Allied Corp Bendix Commun Div	
Baltimore MD.....	301-583-4000
E F E Labs Inc Horsham PA.....	215-672-2400
Erbtec Engineering Inc Boulder CO.....	303-447-8750
Loral Data Systems/Conic San Diego CA.....	619-279-0411
Microwave Control Div Micon Inc Brick NJ.....	201-458-3000
NSD Los Alamitos CA.....	714-527-4896
RHG Electronics Lab Inc Deer Park NY.....	516-242-1100
TRW Microwave Sunnyvale CA.....	408-732-0880
Westport Dev & Mfg Co Inc Orange CT.....	203-795-0871

TRANSMITTERS, RADIO COMMUNICATIONS—RADIOTELEGRAPH

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
EHRRHORN TECHNOLOGICAL OPERATIONS INC	
CANON CITY CO.....	303-275-1613
ADV PG 17	
AEG Corporation Somerville NJ.....	201-722-9800
Aerocom Miami FL.....	305-448-6503

Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Communication Associates Inc	
Huntington Station NY.....	516-271-0800
Continental Electronics Div Varian Assoc	
Dallas TX.....	214-381-7161
Ehrrhorn Technological Operations Inc	
Canon City CO.....	303-275-1613
Electro-Nav Inc Elizabeth NJ.....	201-527-0099
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Nautical Electronic Labs Ltd	
Hacketts Cove NS.....	902-823-2233
NSD Los Alamitos CA.....	714-527-4896
Palomar Engineers Escondido CA.....	619-747-3343
Stoner Communications Inc	
Rancho Cucamonga CA.....	714-987-4624
Thomson CSF Inc White Plains NY.....	914-694-4450

TRANSMITTERS, RADIO COMMUNICATIONS—RAILROAD

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
AEG Corporation Somerville NJ.....	201-722-9800
Cardion Electronics Communications	
Holtsville NY.....	516-289-6200
Cardion Electronics Div Gen Signal Corp	
Woodbury NY.....	516-921-7300
General Elec Co Mobile Communications Div	
Lynchburg VA.....	804-528-7000
Intech Inc Santa Clara CA.....	408-727-0500
NEC America Inc Melville NY.....	516-753-7000
NSD Los Alamitos CA.....	714-527-4896
Regency Electronics Inc Indianapolis IN.....	317-545-4281
Repro Inc Orlando FL.....	305-843-8484

TRANSMITTERS, RADIO COMMUNICATIONS—SINGLE SIDEBAND, FIXED STATION

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
EHRRHORN TECHNOLOGICAL OPERATIONS INC	
CANON CITY CO.....	303-275-1613
ADV PG 17	
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA.....	818-993-8257
AEG Corporation Somerville NJ.....	201-722-9800
Aerocom Miami FL.....	305-448-6503
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Communication Associates Inc	
Huntington Station NY.....	516-271-0800
Continental Electronics Div Varian Assoc	
Dallas TX.....	214-381-7161
Ehrrhorn Technological Operations Inc	
Canon City CO.....	303-275-1613
Furuno USA Inc So San Francisco CA.....	415-873-9393
General Elec Co Mobile Communications Div	
Lynchburg VA.....	804-528-7000
Harris Corp RF Commun Grp Rochester NY.....	716-244-5830
Heath Co Benton Harbor MI.....	616-982-3200
Intech Inc Santa Clara CA.....	408-727-0500
Kahn Communications Inc Westbury NY.....	516-222-2221
LaPointe Industries Inc Rockville CT.....	203-872-8581
Nautical Electronic Labs Ltd	
Hacketts Cove NS.....	902-823-2233
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Rockwell Intl Corp Commerical Elctns Opers	
Richardson TX.....	214-996-5000
Scientific Radio Systems Inc Rochester NY.....	716-458-3733
Solid State Electronics Corp Northridge CA.....	818-993-8257
Stoner Communications Inc	
Rancho Cucamonga CA.....	714-987-4624
Thomson CSF Inc White Plains NY.....	914-694-4450

TRANSMITTERS, RADIO COMMUNICATIONS—SPACE

See Communications Systems—Space

TRANSMITTERS, RADIO COMMUNICATIONS—TELEMETRY, FLIGHT TEST

See Communications Systems—Flight Test

TRANSMITTERS, RADIO COMMUNICATIONS—TELEMETRY, INDUSTRIAL

AEG CORPORATION SOMERVILLE NJ.....	201-722-9800
ENVIROMARINE SYSTEMS INC	
LAUREL MD.....	301-598-8833
SOLID STATE ELECTRONICS CORP	
NORTHBRIDGE CA.....	818-993-8257
Aerux Autodata Mountain View CA.....	415-964-3200
ACR Corporation Somerville NJ.....	201-722-9800
Anritsu Corp Minato-ku Tokyo Japan.....	03-446-1111
Autocore Industries Inc St Paul MN.....	612-642-1784
Barrett Electronics Corp Northbrook IL.....	312-272-2300
B F Electronics Solana Beach CA.....	619-755-1881
Cardion Electronics Communications	
Holtsville NY.....	516-289-6200
Communitronics Ltd Bohemia NY.....	516-567-8320
Enviromarine Systems Inc Laurel MD.....	301-598-8833
Epsilon-Lambda Electronics Corp Geneva IL.....	312-232-9611
Erbtec Engineering Inc Boulder CO.....	303-447-8750

Intech Inc Santa Clara CA	408-727-0500
Loral Data Systems/Conic San Diego CA	619-279-0411
Marti Electronics Inc Cleburne TX	817-645-9163
Moseley Associates Inc Goleta CA	805-968-9621
NPC Electronics New Brighton MN	612-633-4591
NSD Los Alamitos CA	714-527-4896
Reppo Inc Orlando FL	305-843-8484
RHG Electronics Lab Inc Deer Park NY	516-242-1100
Seaboard Electronics Div Nealor Corp New Rochelle NY	914-235-8073
Sigma Instruments Inc Fisher Pierce Div Braintree MA	617-843-5000
Solid State Electronics Corp Northridge CA	818-993-8257
TRW Microwave Sunnyvale CA	408-732-0880
UFI Morro Bay CA	805-772-1203
West Coast Research Corp Los Angeles CA	213-478-8833

TRANSMITTERS, RADIO COMMUNICATIONS—TELEMETRY, SCIENTIFIC

See Communications Systems—Telemetry

TRANSMITTERS, RADIO COMMUNICATIONS—TROPOSCATTER

Continental Electronics Div Varian Assoc Dallas TX	214-381-7161
Harris Corp RF Commun Grp Rochester NY	716-244-5830
NSD Los Alamitos CA	714-527-4896
RCA Government Systems Div Cherry Hill NJ	609-338-3000
Thomson CSF Inc White Plains NY	914-694-4450
Varian Electron Device Group Palo Alto CA	415-493-4000

TRANSMITTERS, RADIO COMMUNICATIONS—UHF & VHF, FIXED STATION

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ACI Audor Communications Inc Ottawa ON	613-523-9933
AEG Corporation Somerville NJ	201-722-9800
Aerocom Miami FL	305-448-6503
Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Aydin Vector Div Newtown PA	215-968-4271
B F Electronics Solana Beach CA	619-755-1881
Cardion Electronics Communications Holtville NY	516-289-6200
Cardion Electronics Div Gen Signal Corp Woodbury NY	516-921-7300
Comdel Inc Beverly MA	617-927-3144
Continental Electronics Div Varian Assoc Dallas TX	214-381-7161
Genave Inc Indianapolis IN	317-262-2000
General Elec Co Mobile Communications Div Lynchburg VA	804-528-7000
Harris Corp RF Commun Grp Rochester NY	716-244-5830
Intech Inc Santa Clara CA	408-727-0500
Johnson Co E F/Radio Products Div Waseca MN	507-835-6222
Johnson International E F Waseca MN	507-835-6222
Kel Corp Melrose MA	617-662-2222
Loral Data Systems/Conic San Diego CA	619-279-0411
Marti Electronics Inc Cleburne TX	817-645-9163
Moseley Associates Inc Goleta CA	805-968-9621
NEC America Inc Melville NY	516-753-7000
NSD Los Alamitos CA	714-527-4896
Oklahoma Aerotronics Inc Hartshorne OK	918-297-2566
RCA Government Systems Div Cherry Hill NJ	609-338-3000
Regency Electronics Inc Indianapolis IN	317-545-4281
Rockwell Intl Corp Commerical Elctns Opers Richardson TX	214-996-5000
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Scientific Radio Systems Inc Rochester NY	716-458-3733
Stoner Communications Inc Rancho Cucamonga CA	714-987-4624
Thomson CSF Inc White Plains NY	914-694-4450

TRANSMITTERS, RADIO COMMUNICATIONS—VLF

Continental Electronics Div Varian Assoc Dallas TX	214-381-7161
Electro-Nav Inc Elizabeth NJ	201-527-0099
Nautical Electronic Labs Ltd Hacketts Cove NS	902-823-2233
Rockwell Intl Corp Commerical Elctns Opers Richardson TX	214-996-5000
Thomson CSF Inc White Plains NY	914-694-4450

TRANSMITTERS, RADIO NAVIGATION—DIRECTION FINDER

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ACR Electronics Inc Ft Lauderdale FL	305-981-3333
AEG Corporation Somerville NJ	201-722-9800
Aerocom Miami FL	305-448-6503
Cardion Electronics Div Gen Signal Corp Woodbury NY	516-921-7300
Communitronics Ltd Bohemia NY	516-567-8320
Nautical Electronic Labs Ltd Hacketts Cove NS	902-823-2233
Republic Electronics Inc Melville NY	516-249-1414

Rockwell Intl Corp Commerical Elctns Opers Richardson TX	214-996-5000
Scientific Radio Systems Inc Rochester NY	716-458-3733
Southern Avionics Co Beaumont TX	409-842-1717

TRANSMITTERS, RADIO NAVIGATION—INSTRUMENT LANDING AIDS

MICROWAVE CONTROL DIV MICON INC BRICK NJ	201-458-3000
Lear Siegler Inc Instrument Div Grand Rapids MI	616-241-7000
Microwave Control Div Micon Inc Brick NJ	201-458-3000
Mobil Electronics Inc Anderson IN	317-642-7976
Oklahoma Aerotronics Inc Hartshorne OK	918-297-2566
Rockwell Intl Corp Commerical Elctns Opers Richardson TX	214-996-5000
Scientific Radio Systems Inc Rochester NY	716-458-3733
Southern Avionics Co Beaumont TX	409-842-1717
Thomson CSF Inc White Plains NY	914-694-4450

TRANSMITTERS, RADIO NAVIGATION—LORAN & OMEGA

Anritsu Corp Minato-ku Tokyo Japan	03-446-1111
Continental Electronics Div Varian Assoc Dallas TX	214-381-7161
Dayton Granger Inc Ft Lauderdale FL	305-463-3451
Lear Siegler Inc Instrument Div Grand Rapids MI	616-241-7000
Rockwell Intl Corp Commerical Elctns Opers Richardson TX	214-996-5000

TRANSMITTERS, RADIO NAVIGATION—RADIO RANGE

ACR Electronics Inc Ft Lauderdale FL	305-981-3333
Cardion Electronics Div Gen Signal Corp Woodbury NY	516-921-7300
Nautical Electronic Labs Ltd Hacketts Cove NS	902-823-2233
Rockwell Intl Corp Commerical Elctns Opers Richardson TX	214-996-5000
Scientific Radio Systems Inc Rochester NY	716-458-3733
Southern Avionics Co Beaumont TX	409-842-1717
Teledyne Hastings-Raydist Hampton VA	804-723-6531

TRANSMITTERS, RADIO NAVIGATION—TACTICAL

See Aircraft Guidance & Navigation Systems

TRANSMITTERS—SONAR

See Sonar

TRANSMITTERS—SPACE COMMUNICATIONS

See Communications Systems

TRANSPONDERS

See Radar Systems—Beacons

TRANSPONDER SETS—DELAY LINE

See Delay Lines

TRANSPORTATION SERVICES

See Shipping Services

TRAVELING-WAVE TUBES

See Tubes—Microwave

TRAYS

See Bins & Trays

TRIMMERS

See Capacitors; Potentiometers; Resistors

TRIMMING MACHINES

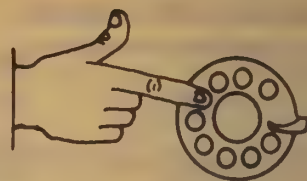
See Laser Trimming & Machining Systems;

Machines—Resistor Network Trimming

TROPOSCATTER SYSTEMS

See Communications Systems; Microwave

Systems; Transmitters—Radio Communications



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now I need
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and
a person
to contact.”



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TR TUBES

See Tubes—TR

TUBE COOLERS

See Cooling Units—Tube; Shields, Tube-Heat
Dissipating

TUBE MANUFACTURING MACHINES

See Machines—Tube Manufacturing

TUBE PARTS

AEG CORPORATION SOMERVILLE NJ	201-722-9800
GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT CLEVELAND OH	216-266-2451
ADV PG 205 533	
SAES GETTERS/USA INC COLORADO SPRINGS CO	303-576-3200
ADV PG 88	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SUPERIOR TECHNICAL CERAMICS CORP ST ALBANS VT	802-527-7726
ADV PG 81	
AEG Corporation Somerville NJ	201-722-9800
Alberox Corp New Bedford MA	617-995-1725
Argent Industries Inc Englewood OH	513-836-8633
Auto-Swage Products Inc Shelton CT	203-929-1401
Bead Electronics Div Bead Chain Mfg Co Bridgeport CT	203-334-4124
Braxton Mfg Co Inc Watertown CT	203-274-6781
Budd Catto Assoc Inc Brielle NJ	201-528-7439
Diamonite Products Shreve OH	216-567-2145
Elmac Div Varian Associates San Carlos CA	415-592-1221
Emporium Specialties Co Inc Austin PA	814-647-8661
Fibre Materials Corp Plainview NY	516-349-1660
Frenchtown Ceramics Co Frenchtown NJ	201-996-2121
Gen Elec Co Glass & Metallurgical Prods Dept Cleveland OH	216-266-2451
General Elec Co Quartz Prods Dept Cleveland OH	216-266-9058
Glass Beads Co Latrobe PA	412-537-7791
GTE Lighting Products Danvers MA	617-777-1900
GTE Precision Materials Danvers MA	617-777-1900
Heraeus-Volkert Inc Queens Village NY	718-464-8400
Johnson & Hoffman Mfg Corp Carle Place NY	516-742-3333
Kemet, Union Carbide Corp Electronics Div Greenville SC	803-963-6348
Ken-Tron Mfg Inc Owensboro KY	502-684-0431
King Laboratories Inc Syracuse NY	315-471-8123
Lancaster Glass Corp Lancaster OH	614-653-0311
McDaniel Refractory Co Beaver Falls PA	412-843-8300
National Beryllia Div/General Ceramics Inc Haskell NJ	201-839-1600
SAES Getters/USA Inc Colorado Springs CO	303-576-3200
Sager Hingham MA	617-749-6700
Sakata Mfg Co Ltd Tokyo Japan	03-781-6078
Semicon Associates Inc Lexington KY	606-255-3664
SMC Carbon Products Fairfield NJ	201-227-2432
Spectra-Mat Inc Watonsville CA	408-722-4116
Spruce Pine Mica Co Inc Spruce Pine NC	704-765-4241
Stamet Mfg Corp Fairfield NJ	201-227-2432
Stimpson Co Inc Bayport NY	516-472-2000
Superior Technical Ceramics Corp St Albans VT	802-527-7726
Superior Tube Co Norristown PA	215-489-5200
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
United Mineral & Chemical Corp New York NY	212-966-4330

TUBE SHIELDS

See Shields—Tube

TUBE SOCKETS

See Sockets

TUBES—BALLAST

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
INTERNATIONAL COMPONENTS CORP MELVILLE NY	516-293-1500
Alpha Electronics Inc Brooklyn NY	718-633-2800
Amperex Co Inc Union City NJ	201-864-9503
International Components Corp Melville NY	516-293-1500

TUBES—BEAM-DEFLECTION

See Tubes—Counter

TUBES, CATHODE RAY—DATA STORAGE

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
Alpha Electronics Inc Brooklyn NY	718-633-2800
Amperex Electronic Corp Smithfield RI	401-762-3800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
EEV Inc Elmsford NY	914-592-6050
Empire Video Inc Jacksonville FL	904-731-4111

Hughes Aircraft Co Ind Prods Div Carlsbad CA	619-931-3000
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Thomas Electronics Inc Wayne NJ	201-696-5200
Video Display Corp Stone Mountain GA	404-938-2080
Westinghouse Elec Corp Ind & Govt Tube Div Horseheads NY	607-796-3211

TUBES, CATHODE RAY—IMAGE ORTHICON

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
TEMTRON ELECTRONICS LTD EAST ROCKAWAY NY	516-599-6400
ADV PG 517	

Alpha Electronics Inc Brooklyn NY	718-633-2800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
EEV Inc Elmsford NY	914-592-6050
Empire Video Inc Jacksonville FL	904-731-4111
Hamamatsu Corp Middlesex NJ	201-469-6640
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Temtron Electronics Ltd East Rockaway NY	516-599-6400
Video Display Corp Stone Mountain GA	404-938-2080

TUBES, CATHODE RAY—OSCILLOSCOPE MULTIPLE GUN

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
Alpha Electronics Inc Brooklyn NY	718-633-2800
Amperex Electronic Corp Smithfield RI	401-762-3800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Empire Video Inc Jacksonville FL	904-731-4111
ITT Electro Optical Products Div Roanoke VA	703-563-0371
M-O Valve Co Ltd London England	01-603-3431
Silver Glo Picture Tube Ltd Edmonton AB	403-474-5056
Thomas Electronics Inc Wayne NJ	201-696-5200
Video Display Corp Stone Mountain GA	404-938-2080

TUBES, CATHODE RAY—OSCILLOSCOPE SINGLE GUN

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ADV PG 515	
ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
AEG Corporation Somerville NJ	201-722-9800
Alpha Electronics Inc Brooklyn NY	718-633-2800
Amperex Electronic Corp Smithfield RI	401-762-3800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Clinton Electronics Corp Rockford IL	815-633-1444
Empire Video Inc Jacksonville FL	904-731-4111
Hughes Aircraft Co Ind Prods Div Carlsbad CA	619-931-3000
ITT Electro Optical Products Div Roanoke VA	703-563-0371
M-O Valve Co Ltd London England	01-603-3431
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Silver Glo Picture Tube Ltd Edmonton AB	403-474-5056
Thomas Electronics Inc Wayne NJ	201-696-5200
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
Video Display Corp Stone Mountain GA	404-938-2080

TUBES, CATHODE RAY—SCAN CONVERTER

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
Alpha Electronics Inc Brooklyn NY	718-633-2800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Empire Video Inc Jacksonville FL	904-731-4111
Princeton Electronic Products Inc North Brunswick NJ	201-297-4448
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Video Display Corp Stone Mountain GA	404-938-2080

TUBES, CATHODE RAY—SHAPED BEAM & CHARACTER

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
Alpha Electronics Inc Brooklyn NY	718-633-2800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Hughes Aircraft Co Ind Prods Div Carlsbad CA	619-931-3000
Philips Electronic Comps & Mats Div Eindhoven Netherlands	040791111
Video Display Corp Stone Mountain GA	404-938-2080

TUBES, CATHODE RAY—TV, BLACK & WHITE

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ADV PG 515	
MERCURY ELECTRONIC CO ATLANTIC HIGHLANDS NJ	201-291-1600
ADV PG 516	
PHILIPS ECG INC WALTHAM MA	617-890-6107
TEMTRON ELECTRONICS LTD EAST ROCKAWAY NY	516-599-6400
ADV PG 517	
ACI Data Products Inc Huntington Beach CA	714-842-2945

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Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Clinton Electronics Corp Rockford IL	815-633-1444
EEV Inc Elmsford NY	914-592-6050
Empire Video Inc Jacksonville FL	904-731-4111
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
Mitsubishi Electronics America Inc Torrance CA	213-515-3993
NEC America Inc Melville NY	516-753-7000
Panasonic Co Electronic Components Div Secaucus NJ	201-348-5200
Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div Eindhoven Netherlands	040791111
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Silver Glo Picture Tube Ltd Edmonton AB	403-474-5056
Temtron Electronics Ltd East Rockaway NY	516-599-6400
Thomas Electronics Inc Wayne NJ	201-696-5200
Thorn EMI Gencom Inc Fairfield NJ	201-575-5586
Video Display Corp Stone Mountain GA	404-938-2080

TUBES, CATHODE RAY—TV, COLOR

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ADV PG 515	
MERCURY ELECTRONIC CO ATLANTIC HIGHLANDS NJ	201-291-1600
ADV PG 516	
PHILIPS ECG INC WALTHAM MA	617-890-6107
TEMTRON ELECTRONICS LTD EAST ROCKAWAY NY	516-599-6400
ADV PG 517	
ACI Data Products Inc Huntington Beach CA	714-842-2945
AEG Corporation Somerville NJ	201-722-9800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
EEV Inc Elmsford NY	914-592-6050
Empire Video Inc Jacksonville FL	904-731-4111
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
Mitsubishi Electronics America Inc Torrance CA	213-515-3993
NEC America Inc Melville NY	516-753-7000
Panasonic Co Electronic Components Div Secaucus NJ	201-348-5200
Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div Eindhoven Netherlands	040791111
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Silver Glo Picture Tube Ltd Edmonton AB	403-474-5056
Temtron Electronics Ltd East Rockaway NY	516-599-6400
Video Display Corp Stone Mountain GA	404-938-2080
Zenith Electronics Corp Rauland Div Melrose Park IL	312-345-4700

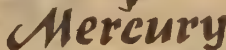
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ADV PG 516	
TEMTRON ELECTRONICS LTD	
EAST ROCKAWAY NY	516-599-6400
ADV PG 517	
Alpha Electronics Inc Brooklyn NY	718-633-2800
ATV Research Inc Dakota City NE	402-987-3771
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Centronic Inc Mountaintop NJ	201-233-7200
EEV Inc Elmford NY	914-592-6050
Empire Video Inc Jacksonville FL	904-731-4111
Hamamatsu Corp Middlesex NJ	201-469-6640
ITT Electro Optical Products Div Roanoke VA	703-563-0371
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
NEC America Inc Melville NY	516-753-7000
Panasonic Co Electronic Components Div	
Secaucus NJ	201-348-5200
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Temtron Electronics Ltd East Rockaway NY	516-599-6400
Video Display Corp Stone Mountain GA	404-938-2080
Westinghouse Elec Corp Ind & Govt Tube Div	
Horseheads NY	607-796-3211

TUBES, CERAMIC (ELECTRON)

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
PHILIPS ECG INC WALTHAM MA	617-890-6107
Alpha Electronics Inc Brooklyn NY	718-633-2800
Amperex Electronic Corp Hicksville Div	
Hicksville NY	516-931-6200
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
EEV Inc Elmford NY	914-592-6050
Emmac Div Varian Associates San Carlos CA	415-592-1221
Empire Video Inc Jacksonville FL	904-731-4111
ITT Electron Technology Div Easton PA	215-252-7331
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
M-O Valve Co Ltd London England	01-603-3431
Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Thomson-CSF Electron Tube Div	
Rutherford NJ	201-438-2300
Varian Electron Device Group Palo Alto CA	415-493-4000
Victoreen Inc Cleveland OH	216-795-8200
Video Display Corp Stone Mountain GA	404-938-2080
Westinghouse Elec Corp Ind & Govt Tube Div	
Horseheads NY	607-796-3211

TUBES, COUNTER—DECADE & PULSE

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ATLANTIC HIGHLANDS NJ	201-291-1600
Alpha Electronics Inc Brooklyn NY	718-633-2800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Empire Video Inc Jacksonville FL	904-731-4111
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
Video Display Corp Stone Mountain GA	404-938-2080

TUBES, COUNTER—RADIATION

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MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
Alpha Electronics Inc Brooklyn NY	718-633-2800
Amperex Electronic Corp Hicksville Div	
Hicksville NY	516-931-6200
Baird Corp Bedford MA	617-276-6000
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Canberra Industries Inc Meriden CT	203-238-2351
Centronic Inc Mountaintop NJ	201-233-7200
Collins & Assoc Don L Glendale CA	213-245-2711
Empire Video Inc Jacksonville FL	904-731-4111
Hamamatsu Corp Middlesex NJ	201-469-6640
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
The Nucleus Inc Oak Ridge TN	615-483-0008
Victoreen Inc Cleveland OH	216-795-8200
Westinghouse Elec Corp Ind & Govt Tube Div	
Horseheads NY	607-796-3211
Wood N Counter Laboratory Inc Chicago IL	312-324-1114

TUBES, ELECTROMETER

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
Alpha Electronics Inc Brooklyn NY	718-633-2800
Collins & Assoc Don L Glendale CA	213-245-2711
M-O Valve Co Ltd London England	01-603-3431

TUBES, ELECTROSTATIC PRINTING

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
Alpha Electronics Inc Brooklyn NY	718-633-2800
ITT Electro Optical Products Div Roanoke VA	703-563-0371

TUBES—GAS LASER

See Lasers—Gaseous

TUBES, GLOW OR DISCHARGE—COLD CATHODE

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
PHILIPS ECG INC WALTHAM MA	617-890-6107
Alpha Electronics Inc Brooklyn NY	718-633-2800
CVC Products Inc Rochester NY	716-458-2550
Fredericks Co Huntingdon Valley PA	215-947-2500
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
M-O Valve Co Ltd London England	01-603-3431
Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
RCA Distr & Special Prods Div Deptford NJ	609-541-3636

TUBES, GLOW OR DISCHARGE—COLD CATHODE TRIGGER

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
Alpha Electronics Inc Brooklyn NY	718-633-2800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
EG & G Inc Electro-Optics Div Salem MA	617-745-3200
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
M-O Valve Co Ltd London England	01-603-3431
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
RCA Distr & Special Prods Div Deptford NJ	609-541-3636

TUBES, GLOW OR DISCHARGE—HOT CATHODE

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
PHILIPS ECG INC WALTHAM MA	617-890-6107
Alpha Electronics Inc Brooklyn NY	718-633-2800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Fredericks Co Huntingdon Valley PA	215-947-2500
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
Philips ECG Inc Waltham MA	617-890-6107

TUBES—HEARING-AID

MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600

TUBES—HYDROGEN-THYRATRON

See Tubes—Thyratron

TUBES—IGNITRON

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
INTERNATIONAL COMPONENTS CORP	
MELVILLE NY	516-293-1515
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
Alpha Electronics Inc Brooklyn NY	718-633-2800
Amperex Electronic Corp Hicksville Div	
Hicksville NY	516-931-6200
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
EEV Inc Elmford NY	914-592-6050
International Components Corp Melville NY	516-293-1515
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Victoreen Inc Cleveland OH	216-795-8200
Westinghouse Elec Corp Ind & Govt Tube Div	
Horseheads NY	607-796-3211

TUBES—IMAGE CONVERTER

AEG CORPORATION SOMERVILLE NJ	201-722-9800
ADV PG 515	
ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
AEG Corporation Somerville NJ	201-722-9800
Alpha Electronics Inc Brooklyn NY	718-633-2800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
ITT Electro Optical Products Div Roanoke VA	703-563-0371
Liton Electron Devices Div San Carlos CA	415-591-8400
RCA Distr & Special Prods Div Deptford NJ	609-541-3636
Thomson-CSF Electron Tube Div	
Rutherford NJ	201-438-2300

TUBES—IMAGE TRANSFER

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ADV PG 517	
Alpha Electronics Inc Brooklyn NY	718-633-2800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
ITT Electro Optical Products Div Roanoke VA	703-563-0371
Thomson-CSF Electron Tube Div	
Rutherford NJ	201-438-2300
Westinghouse Elec Corp Ind & Govt Tube Div	
Horseheads NY	607-796-3211

TUBES, INDICATOR—ALPHANUMERIC

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
Alpha Electronics Inc Brooklyn NY	718-633-2800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Hi-Tech Components/Mitsubishi Intl	
New York NY	212-605-2600
IEE Industrial Electronic Engineers Inc	
Van Nuys CA	818-787-0331
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
M-O Valve Co Ltd London England	01-603-3431
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111

TUBES, INDICATOR—NUMERIC

ALPHA ELECTRONICS INC BROOKLYN NY	718-633-2800
ADV PG 517	
MERCURY ELECTRONIC CO	
ATLANTIC HIGHLANDS NJ	201-291-1600
Alpha Electronics Inc Brooklyn NY	718-633-2800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Hi-Tech Components/Mitsubishi Intl	
New York NY	212-605-2600
IEE Industrial Electronic Engineers Inc	
Van Nuys CA	818-787-0331
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
NEC America Inc Melville NY	516-753-7000
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
RCA Distr & Special Prods Div Deptford NJ	609-541-3636

TUBES—INFRARED IMAGE CONVERTER

See Infrared Image Converter Tubes

TUBES—IONIZATION

See Ionization Chambers

TUBES—LIGHTHOUSE

See Tubes—Planar

TUBES, MICROWAVE—BACKWARD WAVE (INCL. CARCINOTRON)

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ADV PG 516	
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International Components Corp Melville NY	516-293-1500
Litton Electron Devices Div San Carlos CA	415-591-8411
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Radio-Research Instrument Co Inc	
Danbury CT	203-792-6666
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Thomson-CSF Electron Tube Div	
Rutherford NJ	201-438-2300
Varian Electron Device Group Palo Alto CA	415-493-4000
Watkins-Johnson Co Palo Alto CA	415-493-4141

TUBES, MICROWAVE—CROSSED FIELD (EXCEPT MAGNETRON)

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Alpha Electronics Inc Brooklyn NY	718-633-2800
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
Hughes Aircraft Co Electron Dynamics Div	
Torrance CA	213-517-6000
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Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
Radio-Research Instrument Co Inc	
Danbury CT	203-792-6666
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Rutherford NJ	201-438-2300
Varian Electron Device Group Palo Alto CA	415-493-4000

TUBES, MICROWAVE—KLYSTRON

AEG CORPORATION SOMERVILLE NJ	201-722-9800
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Alpha Electronics Inc Brooklyn NY	718-633-2800
Amperex Electronic Corp Hicksville Div	
Hicksville NY	516-931-6200
Bolotin Assocs Inc Woodland Hills CA	213-340-8552
EEV Inc Elmsford NY	914-592-6050
International Components Corp Melville NY	516-293-1500
ITT Electron Technology Div Easton PA	215-252-7331
Litton Electron Devices Div San Carlos CA	415-591-8411
Mercury Electronic Co Atlantic Highlands NJ	201-291-1600
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Philips ECG Inc Waltham MA	617-890-6107
Philips Electronic Comps & Mats Div	
Eindhoven Netherlands	040791111
Polarad Electronics Inc Lake Success NY	516-328-1100
Radio-Research Instrument Co Inc	
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Thomson-CSF Electron Tube Div	
Rutherford NJ	201-438-2300
Varian Electron Device Group Palo Alto CA	415-493-4000

TUBES, MICROWAVE—MAGNETRON

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Amperex Electronic Corp Hicksville Div	
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Bolotin Assocs Inc Woodland Hills CA	213-340-8552
EEV Inc Elmsford NY	914-592-6050
International Components Corp Melville NY	516-293-1500
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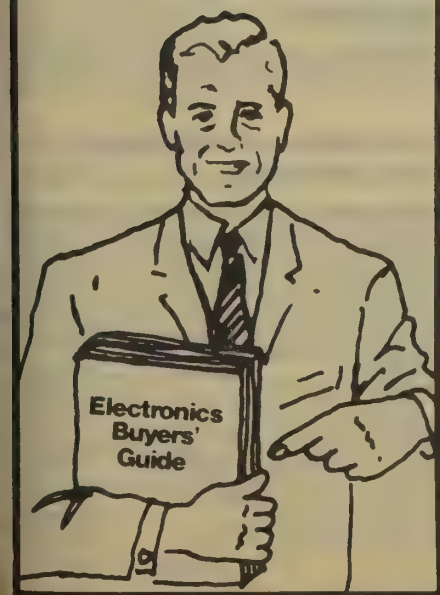
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Consolidated Electronic Wire & Cable Corp
Franklin Park IL..... 312-455-8830
Dearborn Wire & Cable Inc Wheeling IL..... 312-459-1000
Diamonite Products Shreve OH 216-567-2145
Dorco Electronics Inc Paramount CA 213-636-5552
Electronized Chemicals Co Wilmington MA 617-657-8030
Engineered Plastics Inc Gibsonville NC..... 919-449-4121
Essex Group/IWI Ft Wayne IN..... 219-461-4000
Flexaust Co Div Callahan Mining Corp
Amesbury MA..... 617-388-9700
Gilbreth International Corp Cornwells Hgts PA 215-638-7100
Icore International Inc Sunnyvale CA 408-732-5400
Kellems Div Harvey Hubbell Inc
Stonington CT..... 203-535-1250
King Wire & Cable Corp Jamaica NY..... 718-657-4422
Kirkhill Rubber Co Brea CA 714-529-4901
Laminated Fabricators San Bruno CA 415-583-5092
Manhattan Electric Cable Corp Rye NY 609-455-8530
Markel Corp Norristown PA 215-272-8960
Mechanical Rubber Products Corp
Warwick NY 914-986-2271
Minor Rubber Co Inc Bloomfield NJ..... 201-338-6800
Nalgene Industrial Dept Nalge Co
Rochester NY..... 716-586-8800
National Wire & Cable Corp Los Angeles CA 213-225-5611
Natvar Co Div High Voltage Eng Clayton NC..... 919-553-4151
Newman Corp MM Marblehead MA 617-631-7100
Nitro Denko America Inc Port Washington NY 516-484-9700
Norton Co Worcester MA 617-853-1000
Norton Performance Plastics Wayne NJ 201-696-4700
Omega Leads Inc Santa Monica CA 213-346-6786
Orion Resdel Corp Rio Grande NJ 609-886-1111
Panduit Corp Tinley Park IL..... 312-532-1800
Paramount Tube Inc Fort Wayne IN..... 219-484-4111
Parker Hannifin Corp Seal Group
Lexington KY 606-269-2351
Parker Seal Group Lexington KY 606-269-2351
Polygon Co Walkerton IN 219-586-3122
Polymer Corp Reading PA..... 215-320-6600
Precision Paper Tube Co Wheeling IL..... 312-537-4250
Raychem Corp Menlo Park CA 415-361-3333
Remtek Corp Fremont CA 415-490-3999
Sager Hingham MA 617-749-6700
Sinclair & Rush Inc St Louis MO..... 314-481-2450
SOS Lighting Devices Div MEMCO
Philadelphia PA 215-423-7077
SPC Technology Bensenville IL 312-766-6711
Stevens Products Inc East Orange NJ 201-672-2140
Steward Mfg Co D M Chattanooga TN..... 615-867-4100
Storm Products Co Inglewood CA 213-776-8141
Sunbank Electronics Inc Paso Robles CA..... 805-238-2840
Technical Specialties Co Inc Spring Valley NY 914-425-9700
Varflex Corp Rome NY 315-336-4400
Vertex Electronics Inc Farmingdale NY 516-293-9880
Wes-Garde Components Group Inc
Hartford CT 203-525-6907
Zenith Wire & Cable Corp Ronkonkoma NY 516-585-1444
Zeus Industrial Products Inc Raritan NJ 201-526-0800
Zippertubing Co Los Angeles CA 213-321-3901

TUBING JOINTS

Electronized Chemicals Co Wilmington MA 617-657-8030
Flexaust Co Div Callahan Mining Corp
Amesbury MA..... 617-388-9700
Hoke Incorporated Cresskill NJ 201-568-9100
Icore International Inc Sunnyvale CA 408-732-5400
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TX: 833409

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Minor Rubber Co Inc Bloomfield NJ.....	201-338-6800
Norton Performance Plastics Wayne NJ.....	201-696-4700
Raychem Corp Menlo Park CA.....	415-361-3333
Technical Specialties Co Inc Spring Valley NY.....	914-425-9700
Transamerica Delaval Inc Wiggins Connectors Div	
Los Angeles CA.....	213-269-9181

TUBING—METAL

See Metals; Metal Tubing—Precision; Waveguide

Tubing

TUBING—NON-REINFORCED

See Material Desired (Ceramic; Mica; Plastic; Rubber)

TUBULAR METAL PARTS

See Metal Parts—Tubular; Waveguide

TUNER MECHANISMS

MALLORY COMPONENTS DIV EMHART

INDIANAPOLIS IN.....	317-261-1361
Ercona Corp Port Jefferson Sta NY.....	516-331-5500
Mallory Components Div Emhart	
Indianapolis IN.....	317-261-1361
Preh Electronics Industries Inc Niles IL.....	312-647-8338

TUNERS—FM STEREO

AEG CORPORATION SOMERVILLE NJ..... 201-722-9800

ADV PG 520	
AEG Corporation Somerville NJ.....	201-722-9800
Bogen Div Lear Siegler Inc Paramus NJ.....	201-343-5700
Cetec Raymer North Hollywood CA.....	213-875-0423
Ercona Corp Port Jefferson Sta NY.....	516-331-5500
Heath Co Benton Harbor MI.....	616-982-3200
Mitsumi Electronics Corp Melville NY.....	516-752-7730
Philips Electronic Comps & Matis Div	
Eindhoven Netherlands.....	040791111
Precision Electronics Inc Franklin Park IL.....	312-678-3222
Sony Communications Prods Co	
Park Ridge NJ.....	201-930-1000
Toko America Inc Mt Prospect IL.....	312-297-0070
Waller Corp Crystal Lake IL.....	815-459-6510

TUNERS—MICROWAVE

See Microwave Tuners

TUNERS—TV

AEG CORPORATION SOMERVILLE NJ..... 201-722-9800

ADV PG 520	
ALPS ELECTRIC (USA) INC	
ROCKVILLE CENTRE NY.....	516-766-3636
ADV PG 111	
AEG Corporation Somerville NJ.....	201-722-9800
Alps Electric (USA) Inc Rockville Centre NY.....	516-766-3636
Mitsumi Electronics Corp Melville NY.....	516-752-7730
Multiplex Technology Inc Fullerton CA.....	714-680-5848
Philips Electronic Comps & Matis Div	
Eindhoven Netherlands.....	040791111
Sony Communications Prods Co	
Park Ridge NJ.....	201-930-1000

TUNGSTEN

See Metals; Wire—Bare

TUNING CAPACITORS

See Capacitors—Variable; Diodes—Varactor

TUNING FORK CIRCUITS

See Filters; Oscillators

TUNING FORKS

MURATA ERIE NORTH AMERICA INC

SMYRNA GA.....	404-436-1300
FCP Inc/Frequency Cont Prods Woodside NY.....	718-458-5811
Murata Erie North America Inc Smyrna GA.....	404-436-1300
Sargent-Welch Scientific Co Skokie IL.....	312-677-0600
T-F Electronics Inc Austin TX.....	512-836-7323

TUNING SLUGS

See Cores—Molded Magnetic

TURNTABLES

See Phonograph Turntables

TURRET ATTENUATORS

See Attenuators

TV CAMERAS

ENVIROMARINE SYSTEMS INC

LAUREL MD.....	301-598-8833
LEAR SIEGLER INC ELECTRONIC INSTRUMENTATION	
DIV ANAHEIM CA.....	714-774-1010
TEMTRON ELECTRONICS LTD	
EAST ROCKAWAY NY.....	516-599-6400
ADV PG 285	
Alaun Engineering Montrose CA.....	818-957-0618
Amarel Precision Instr Inc Optem Div	
Penfield NY.....	716-381-6309
Ampex Corp Redwood City CA.....	415-367-2011
Arvin/Diamond Lancaster OH.....	614-756-9222
ATV Research Inc Dakota City NE.....	402-987-3777
Audiotronics Corp North Hollywood CA.....	818-765-2645
Ball Aerospace Systems Div Boulder CO.....	303-939-4000
Cardion Electronics Div Gen Signal Corp	
Woodbury NY.....	516-921-7300
Cohu Inc/Electronics Div San Diego CA.....	619-277-6700
Dage-MTI Inc Michigan City IN.....	219-872-5514
EGG Reticon Sunnyvale CA.....	408-738-4266
Enviro Marine Systems Inc Laurel MD.....	301-598-8833
Fairchild Weston Systems Inc Syosset NY.....	516-349-2200
Hitachi Denshi America Ltd Woodbury NY.....	516-921-7200
Hydro Products Inc a Tetra Tech Co	
San Diego CA.....	619-453-2345
Ikegami Electronics USA Inc Maywood NJ.....	201-368-9171
Lake Systems Corp Newton MA.....	617-244-6881
Lear Siegler Inc Electronic Instrumentation Div	
Anaheim CA.....	714-774-1010
NEC America Inc Melville NY.....	516-753-7000
Photonic Microscopy Inc Oakbrook IL.....	312-325-1241
RCA Broadcast Systems Gillsboro NJ.....	609-435-2800
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Sierra Scientific Mountain View CA.....	408-745-1500
Sony Communications Prods Co	
Park Ridge NJ.....	201-930-1000
Spatial Data Systems Inc Melbourne FL.....	305-729-8346
Systems Research Labs Inc Dayton OH.....	513-426-6000
Tele Measurements Inc Clifton NJ.....	201-473-8822
Temtron Electronics Ltd East Rockaway NY.....	516-599-6400
Westinghouse Elec Corp Ind & Govt Tube Div	
Horseheads NY.....	607-796-3211
Xedar Corp Boulder CO.....	303-443-6441

TV CAMERAS—LOW LIGHT

LEAR SIEGLER INC ELECTRONIC INSTRUMENTATION

DIV ANAHEIM CA.....	714-774-1010
TEMTRON ELECTRONICS LTD	
EAST ROCKAWAY NY.....	516-599-6400
ADV PG 285	

Amarel Precision Instr Inc Optem Div

Penfield NY.....	716-381-6300
Arvin/Diamond Lancaster OH.....	614-756-9222
ATV Research Inc Dakota City NE.....	402-987-3777
Ball Aerospace Systems Div Boulder CO.....	303-939-4000
Cardion Electronics Div Gen Signal Corp	
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Dage-MTI Inc Michigan City IN.....	219-872-5514
Electrophysics Corp Nutley NJ.....	201-667-2262
Fairchild Weston Systems Inc Syosset NY.....	516-349-2200
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Ikegami Electronics USA Inc Maywood NJ.....	201-368-9171
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Lear Siegler Inc Electronic Instrumentation Div	
Anaheim CA.....	714-774-1010
Photonic Microscopy Inc Oakbrook IL.....	312-325-1241
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
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Temtron Electronics Ltd East Rockaway NY.....	516-599-6400
Thomson CSF Inc White Plains NY.....	914-694-4451
Westinghouse Elec Corp Ind & Govt Tube Div	
Horseheads NY.....	607-796-3211
Xedar Corp Boulder CO.....	303-443-6441

TV DISPLAY MODULES

See Display Modules

TV DISPLAY & PROJECTION SYSTEMS

See Display Systems

TV LENSES—CAMERA & PROJECTOR

CANON USA INC ELECTRONIC COMPONENTS DIV

LAKE SUCCESS NY.....	516-488-6700
Amarel Precision Instr Inc Optem Div	
Penfield NY.....	716-381-6300
ATV Research Inc Dakota City NE.....	402-987-3777
Buhl Optical Pittsburgh PA.....	412-321-0070
Canon USA Inc Electronic Components Div	
Lake Success NY.....	516-488-6700
Dage-MTI Inc Michigan City IN.....	219-872-5514
Ercona Corp Port Jefferson Sta NY.....	516-331-5500
Farrand Optical Co Inc Valhalla NY.....	914-428-6800
Lake Systems Corp Newton MA.....	617-244-6881
Lenox Instrument Co Inc Trevose PA.....	215-322-9990
Pacific Optical Div Recon Optical Inc	
Torrance CA.....	213-328-5840
Projectapix II New York NY.....	212-765-7863
Stock & Yale Inc Beverly MA.....	617-927-3940
Tele Measurements Inc Clifton NJ.....	201-473-8822
U S Precision Lens Inc Cincinnati OH.....	513-752-7000
Vicon Industries Inc Melville NY.....	516-293-2200

TV MICROSCOPES

Amarel Precision Instr Inc Optem Div

Penfield NY.....	716-381-6300
ATV Research Inc Dakota City NE.....	402-987-3777
Dage-MTI Inc Michigan City IN.....	219-872-5514
Electrophysics Corp Nutley NJ.....	201-667-2262
Florod Corp Gardena CA.....	213-532-2700
Lake Systems Corp Newton MA.....	617-244-6881
Mark V Lab Inc East Granby CT.....	203-653-7200

TV RECEIVERS—CABLE TV

SUBSCRIBER

ATV Research Inc Dakota City NE.....	402-987-3777
LNR Communications Inc Hauppauge NY.....	516-273-7111
NEC America Inc Melville NY.....	516-753-7000

TV RECEIVERS—CLOSED CIRCUIT

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SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
Arvin/Diamond Lancaster OH.....	614-756-9222
Astronautics Corp of America Milwaukee WI.....	414-447-8200
Audiotronics Corp North Hollywood CA.....	818-765-2645
Ball Aerospace Systems Div Boulder CO.....	303-939-4000
Cohu Inc/Electronics Div San Diego CA.....	619-277-6700
Conrac Div Conrac Corp Covina CA.....	818-966-3511
Electrohome Ltd Kitchener ON.....	519-744-7111
Hitachi Denshi America Ltd Woodbury NY.....	516-921-7200
Hydro Products Inc a Tetra Tech Co	
San Diego CA.....	619-453-2345
Infodex Inc Waterbury CT.....	203-757-9292
Lake Systems Corp Newton MA.....	617-244-6881
Lectrotech Inc Chicago IL.....	312-769-6262
Multiplex Technology Inc Fullerton CA.....	714-680-5848
NEC America Inc Melville NY.....	516-753-7000
RCA Government Systems Div Cherry Hill NJ.....	609-338-3000
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Tatung Co of America Long Beach CA.....	213-637-2100
Tektronix Inc Beaverton OR.....	800-547-6711
Tele Measurements Inc Clifton NJ.....	201-473-8822
Thomson CSF Inc White Plains NY.....	914-694-4451

TV RECEIVERS—ENTERTAINMENT (CHASSIS ONLY)

Conrac Div Conrac Corp Covina CA	818-966-3511
Electrohome Ltd Kitchener ON	519-744-7111
Emerson Radio Corp North Bergen NJ	201-854-4800
Heath Co Benton Harbor MI	616-982-3200
Magnum Opus Custom Electronic Engrg	
Iselin NJ	201-283-4925
NEC America Inc Melville NY	516-753-7000
Projectapix II New York NY	212-765-7869

TV SYSTEMS—CABLE

TEMTRON ELECTRONICS LTD	
EAST ROCKAWAY NY	516-599-6400
ADV PG 285	
Alain Engineering Montrose CA	818-957-0618
Atlantic Research Corp Alexandria VA	703-642-4000
ATV Research Inc Dakota City NE	402-987-3771
C-COR Electronics Inc State College PA	814-238-2461
Multiplex Technology Inc Fullerton CA	714-680-5848
Tele Measurements Inc Clifton NJ	201-473-8822
Temtron Electronics Ltd East Rockaway NY	516-599-6400
Venator Systems Inc San Jose CA	408-262-7788
Winegard Co Burlington IA	319-753-0121

TV SYSTEMS—CLOSED CIRCUIT

ENVIROMARINE SYSTEMS INC	
LAUREL MD	301-598-8833
LEAR SIEGLER INC ELECTRONIC INSTRUMENTATION	
DIV ANAHEIM CA	714-774-1010
TEMTRON ELECTRONICS LTD	
EAST ROCKAWAY NY	516-599-6400
ADV PG 285	
American Laser Systems Inc Goleta CA	805-967-0423
Ampex Corp Redwood City CA	415-367-2011
Aptron Labs Inc Bloomington IN	812-336-4775
Arvin/Diamond Lancaster OH	614-756-9222
Atlantic Research Corp Alexandria VA	703-642-4000
ATV Research Inc Dakota City NE	402-987-3771
Audiotronics Corp North Hollywood CA	818-765-2645
Ball Aerospace Systems Div Boulder CO	303-939-4000
Cohu Inc/ Electronics Div San Diego CA	619-277-6700
Dage-MTI Inc Michigan City IN	219-872-5514
Data-Sud/Systems US Inc Tempe AZ	602-438-1492
Donovan Industries Scotia NY	518-346-3489
Dynair Electronics Inc San Diego CA	619-263-7711
Edo Corp/Western Div Salt Lake City UT	801-486-7481
Enviromarine Systems Inc Laurel MD	301-598-8833
General Television Network Oak Park MI	313-399-2000
Hitachi Denshi America Ltd Woodbury NY	516-921-7200
Hydro Products Inc a Tetra Tech Co	
San Diego CA	619-453-2345
International Microwave Corp Stamford CT	203-323-5599
Kalart Victor Corp Plainville CT	203-747-1663
Lake Systems Corp Newton MA	617-244-6881
Learn Siegler Inc Santa Monica CA	213-452-5444
Learn Siegler Inc Electronic Instrumentation Div	
Anaheim CA	714-774-1010
Lenox Instrument Co Inc Trevese PA	215-322-9990
Math Associates Inc Westbury NY	516-334-6800
Mountain West Alarm Supply Co Phoenix AZ	602-263-8831
Multiplex Technology Inc Fullerton CA	714-680-5848
NEC America Inc Melville NY	516-753-7000
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
RCA Broadcast Systems Gillsboro NJ	609-435-2800
RCA Government Systems Div Cherry Hill NJ	609-338-3000
Robot Research Inc San Diego CA	619-279-9430
Sierra Scientific Mountain View CA	408-745-1500
Simco/Ramic Corp Medford OR	503-776-9800
Spatial Data Systems Inc Melbourne FL	305-729-8346
Stocker & Yale Inc Beverly MA	617-927-3940
Tele Measurements Inc Clifton NJ	201-473-8822
Temtron Electronics Ltd East Rockaway NY	516-599-6400
Thomson CSF Inc White Plains NY	914-694-4450
Vicon Industries Inc Melville NY	516-293-2200
Vdeo Logic Corp Sunnyvale CA	408-245-8622
Vestingshouse Elec Corp Ind & Govt Tube Div	
Horseheads NY	607-796-3211

TV TRANSMITTER CONTROLS—REMOTE

LEG CORPORATION SOMERVILLE NJ	201-722-9800
LEG Corporation Somerville NJ	201-722-9800
American Laser Systems Inc Goleta CA	805-967-0423
Delta Electronics Inc Alexandria VA	703-354-3350
Emerson Radio Corp North Bergen NJ	201-854-4800
Losley Associates Inc Goleta CA	805-968-9621
NEC America Inc Melville NY	516-753-7000
Tele Electronics Industries Inc Niles IL	312-647-8338
RCA Broadcast Systems Gillsboro NJ	609-435-2800
RCA Government Systems Div Cherry Hill NJ	609-338-3000
Tele Measurements Inc Clifton NJ	201-473-8822
Thomson CSF Inc White Plains NY	914-694-4450

TV TRANSMITTERS

See Transmitters—Broadcast

TV TUBES

See Tubes—Cathode-Ray

TV TUNERS

See Tuners

TV TWIN LINES

See Cables—Unshielded

TV VIDEO CONTROL CONSOLES (COMPLETELY WIRED)

LEAR SIEGLER INC ELECTRONIC INSTRUMENTATION	
DIV ANAHEIM CA	714-774-1010
Arvin/Diamond Lancaster OH	614-756-9222
Cohu Inc/ Electronics Div San Diego CA	619-277-6700
Datatron Inc Tustin CA	714-544-9970
Emerson Radio Corp North Bergen NJ	201-854-4800
Hydro Products Inc a Tetra Tech Co	
San Diego CA	619-453-2345
Lake Systems Corp Newton MA	617-244-6881
Learn Siegler Inc Electronic Instrumentation Div	
Anaheim CA	714-774-1010
Projectapix II New York NY	212-765-7869
RCA Broadcast Systems Gillsboro NJ	609-435-2800
Simco/Ramic Corp Medford OR	503-776-9800
Sulmar Systems Engineering Belmont MA	617-862-6358
Tektronix Inc Beaverton OR	800-547-6711
Tele Measurements Inc Clifton NJ	201-473-8822
Thomson CSF Inc White Plains NY	914-694-4450
Vicon Industries Inc Melville NY	516-293-2200

TWISTERS—WIRE

See Wire Twisters

TWISTS—WAVEGUIDE

See Waveguide Fittings

UHF EQUIPMENT

See Communications Equipment Reference List

UHF & VHF TUNERS

MALLORY COMPONENTS DIV EMHART	
INDIANAPOLIS IN	317-261-1361
Mallory Components Div Emhart	
Indianapolis IN	317-261-1361

ULTRASONIC CLEANING SOLVENTS

See Cleaning Materials

ULTRASONIC DELAY LINES

See Delay Lines

ULTRASONIC EQUIPMENT—AMPLIFIERS

ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
INSTRUMENTS INC SAN DIEGO CA	619-571-1111
Analog Modules Inc Longwood FL	305-339-4356
Ansonics Inc Halfway OR	503-742-7475
Betatronics Inc Lincolnwood IL	312-676-1747
Dunegan Corp Mission Viejo CA	714-831-9131
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Instruments Inc San Diego CA	619-571-1111
Laboratory Products Inc Hyde Park MA	617-364-6260
Matec Instruments Inc Warwick RI	401-739-9030
Metrotek Inc Kennewick WA	509-735-7550
MVP Electronics Orange CA	714-639-9246
Power Functions Engineering Inc Garland TX	214-278-0996
Sonics & Materials Inc Danbury CT	203-744-4400
Technon Elkhart IN	219-294-8300

ULTRASONIC EQUIPMENT—ANALYZERS

A P CIRCUIT CORP NEW YORK NY	212-737-1348
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
A P Circuit Corp New York NY	212-737-1348
Fischer & Porter Co Warminster PA	215-674-6000
Matec Instruments Inc Warwick RI	401-739-9030
Metrotek Inc Kennewick WA	509-735-7550
Omega Engineering Inc Stamford CT	203-359-1660
Orthodyne Electronics Corp Costa Mesa CA	714-631-7800

ULTRASONIC EQUIPMENT—CLEANERS

ALCONOX INC NEW YORK NY	212-473-1300
ADV PG 92	
HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
Alconox Inc New York NY	212-473-1300

Baron-Blakeslee Inc Sub Purex Ind Inc	
Melrose Park IL	312-450-3900
Blackstone Ultrasonics Inc Jamestown NY	716-665-2620
Branson Cleaning Equipment Co Shelton CT	203-929-7301
Clean Room Products Inc Ronkonkoma NY	516-588-7000
Corpane Industries Inc Louisville KY	502-491-4433
Delta Sonic Inc Paramount CA	213-634-7140
FCP Inc/Frequency Cont Prods Woodside NY	718-458-5811
Grobet File Co of America Inc Carlstadt NJ	201-939-6700
Heat Systems-Ultrasonics Inc Farmingdale NY	516-894-9555
Heath Co Benton Harbor MI	616-982-3200
Holt Lloyd Corp/LPS Chemical Prods	
Tucker GA	404-934-7800
Hunter Products Inc Bridgewater NJ	201-526-8440
Interlab Inc Danbury CT	203-748-5624
Keuffel & Esser Co Parsippany NJ	201-428-7000
Lewis Corp Oxford CT	203-264-3100
L & R Mfg Co Kearny NJ	201-991-5330
MacDermid Inc Waterbury CT	203-575-5600
Macdonald & Co Glendale CA	818-241-1101
Henry Mann Inc Huntingdon Valley PA	215-355-7200
Mark V Lab Inc Granby CT	203-653-7201
MDC Industries Inc Philadelphia PA	215-426-5925
Oakite Products Inc Berkeley Hts NJ	201-464-6900
Phillips Mfg Co Chicago IL	312-338-6200
Rho-Chem Corp Inglewood CA	312-776-8233
Scientific Enterprises Inc Broomfield CO	303-469-7801
Sel-Rex/OMI Intl Corp Nutley NJ	201-667-5200
Solder Absorbing Technology Springfield MA	413-788-6191
Westinghouse Elec Corp Industrial Equip Div	
Sykesville MD	301-795-2800

ULTRASONIC EQUIPMENT—CONTROLS

Automation Products Inc Houston TX	713-869-0361
Caldwell Systems Corp San Ramon CA	415-833-1850
California Data Corp Newbury Park CA	805-498-3651
National Sonics Div Xertex Corp	
Hauppauge NY	516-273-6600

ULTRASONIC EQUIPMENT—FLAW DETECTORS

California Data Corp Newbury Park CA	805-498-3651
Dunegan Corp Mission Viejo CA	714-831-9131
Hewlett-Packard Palo Alto CA	415-857-8000
James Electronics Inc Chicago IL	312-463-6500
Laboratory Products Inc Hyde Park MA	617-364-6260
Magnaflex Corp Chicago IL	312-867-8000
Matec Instruments Inc Warwick RI	401-739-9030
Metrotek Inc Kennewick WA	509-735-7550
Nortec Corp Kennewick WA	509-735-7550
Systems Research Labs Inc Dayton OH	513-426-6000
Valpey-Fisher Corp Hopkinton MA	617-435-6831

ULTRASONIC EQUIPMENT—GENERATORS (OSCILLATORS)

ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
ELGENCE INC HURRICANE UT	801-635-4954
Branson Cleaning Equipment Co Shelton CT	203-929-7301
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Elgence Inc Hurricane UT	801-635-4954
Fibra-Sonics Inc Chicago IL	312-286-7377
Heat Systems-Ultrasonics Inc Farmingdale NY	516-894-9555
Interlab Inc Danbury CT	203-748-5624
Laboratory Products Inc Hyde Park MA	617-364-6260
Matec Instruments Inc Warwick RI	401-739-9030
Metrotek Inc Kennewick WA	509-735-7550
Orthodyne Electronics Corp Costa Mesa CA	714-631-7800
Sonics & Materials Inc Danbury CT	203-744-4400
Sonobond Ultrasonics Inc West Chester PA	215-696-4710
Westinghouse Elec Corp Industrial Equip Div	
Sykesville MD	301-795-2800

ULTRASONIC EQUIPMENT—INSTRUMENTS

ELECTRONIC NAVIGATION INDUSTRIES INC	
ROCHESTER NY	716-427-8300
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
Ansonics Inc Halfway OR	503-742-7475
Branson Cleaning Equipment Co Shelton CT	203-929-7301
California Data Corp Newbury Park CA	805-498-3651
Carolina Medical Electronics Inc King NC	919-983-5132
Electronic Navigation Industries Inc	
Rochester NY	716-427-8300
Fischer & Porter Co Warminster PA	215-674-6000
Heat Systems-Ultrasonics Inc Farmingdale NY	516-894-9555
Hyde Park Electronics Inc Dayton OH	513-435-2121
Laboratory Products Inc Hyde Park MA	617-364-6260
Massa Products Corp Hingham MA	617-749-4800
Matec Instruments Inc Warwick RI	401-739-9030
Metrotek Inc Kennewick WA	509-735-7550
National Sonics Div Xertex Corp	
Hauppauge NY	516-273-6600
Nortec Corp Kennewick WA	509-735-7550
Omega Engineering Inc Stamford CT	203-359-1660
Panametronics Inc Process Inst Div	
Waltham MA	617-899-2719
Ramsay Engineering Co Anaheim CA	714-524-8855
Raymond Engineering Inc Middletown CT	203-632-1000
Sonatech Inc Goleta CA	805-683-1431

ULTRASONIC EQUIPMENT—LEVEL DETECTORS

TDK CORP TOKYO JAPAN	03-278-5111
Amerace Corp Hackensack NJ.....	201-852-1122
Automation Products Inc Houston TX.....	713-869-0361
Caldwell Systems Corp San Ramon CA.....	415-833-1850
Controlotron Corp Hauppauge NY.....	516-231-3600
Endress & Hauser Inc Greenwood IN.....	317-535-7138
Fischer & Porter Co Warminster PA.....	215-674-6000
Hyde Park Electronics Inc Dayton OH.....	513-435-2121
Metrotek Inc Kennewick WA.....	509-735-7550
National Sonics Div Xertex Corp	
Hauppauge NY.....	516-273-6600
Omron Electronics Inc Schaumburg IL.....	312-843-7900
TDK Corp Tokyo Japan.....	03-278-5111

ULTRASONIC EQUIPMENT—SOLDERING TOOLS

Blackstone Ultrasonics Inc Jamestown NY.....	716-665-2620
Fibra-Sonics Inc Chicago IL.....	312-286-7377
Henry Mann Inc Huntingdon Valley PA.....	215-355-7200
Sonics & Materials Inc Danbury CT.....	203-744-4400

ULTRASONIC EQUIPMENT—STERILIZERS, MEDICAL

Heat Systems-Ultrasonics Inc Farmingdale NY.....	516-694-9555
Princeton Electronic Products Inc	
North Brunswick NJ.....	201-297-4448
Sonics & Materials Inc Danbury CT.....	203-744-4400

ULTRASONIC EQUIPMENT—TESTERS

See Testers

ULTRASONIC EQUIPMENT—THICKNESS GAGES

HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
Electromatic Equipment Co Inc	
Cedarhurst NY.....	516-295-4300
Hunter Products Inc Bridgewater NJ.....	201-526-8440
Magnaflux Corp Chicago IL.....	312-867-8000
Metrotek Inc Kennewick WA.....	509-735-7550
Nortec Corp Kennewick WA.....	509-735-7550
Panametrics Inc Process Inst Div	
Waltham MA.....	617-899-2719

ULTRASONIC EQUIPMENT—TRANSDUCERS, CRYSTAL

VERNITRON PIEZOELECTRIC DIV	
BEDFORD OH	216-232-8600
ADV PG 82	
Blatek Industries Inc Bellefonte PA.....	814-355-4910
Branson Cleaning Equipment Co Shelton CT.....	203-929-7301
Channel Industries Inc Santa Barbara CA.....	805-967-0171
Communication Associates Inc	
Huntington Station NY.....	516-271-0800
Fibra-Sonics Inc Chicago IL.....	312-286-7377
Magnaflux Corp Chicago IL.....	312-867-8000
Nortec Corp Kennewick WA.....	509-735-7550
NTK Technical Ceramic Div Richardson TX.....	214-235-8332
Orthodyne Electronics Corp Costa Mesa CA.....	714-631-7800
Piezo Electric Products Inc Metuchen NJ.....	201-548-2800
Polaroid Corp Cambridge MA.....	617-577-2000
Sonics & Materials Inc Danbury CT.....	203-744-4400
Valpey-Fisher Corp Hopkinton MA.....	617-435-6831
Vernitron Piezoelectric Div Bedford OH.....	216-232-8600

ULTRASONIC EQUIPMENT—TRANSDUCERS, MAGNETOSTRICTIVE

TDK CORP TOKYO JAPAN	03-278-5111
Hyde Park Electronics Inc Dayton OH.....	513-435-2121
Lewis Corp Oxford CT.....	203-264-3100
Projects Unlimited Inc Dayton OH.....	513-890-1918
TDK Corp Tokyo Japan.....	03-278-5111
Westinghouse Elec Corp Industrial Equip Div	
Sykesville MD.....	301-795-2800

ULTRASONIC EQUIPMENT—WELDERS

Orthodyne Electronics Corp Costa Mesa CA.....	714-631-7800
Sonics & Materials Inc Danbury CT.....	203-744-4400
Sonobond Ultrasonics Inc West Chester PA.....	215-696-4710
Ultra Sonic Seal Co Broomall PA.....	215-643-7760

ULTRAVIOLET EQUIPMENT

American Ultraviolet Co Chatham NJ.....	201-635-8355
Armtec Industries Inc Manchester NH.....	603-669-0940
Barnes Engineering Co Stamford CT.....	203-348-5381
BHK Inc Monrovia CA.....	213-357-9667
Canrad-Hanovia Inc Newark NJ.....	201-589-4300
Chemcut Corp State College PA.....	814-238-0514
Clean Room Products Inc Ronkonkoma NY.....	516-588-7000
Dow Corning Corp Midland MI.....	517-496-4000
EG & G Gamma Scientific Inc San Diego CA.....	619-279-8034
Kratos Analytical Ramsey NJ.....	201-934-9000
OAI Santa Clara CA.....	408-988-6900
Shannon Luminous Materials Inc	
Santa Ana CA.....	714-432-0122
Spectronics Corp Westbury NY.....	516-333-4840
Strobilite Co Inc New York NY.....	212-929-3778
Turner Designs Mt View CA.....	415-965-9800
Uvocs Inc Montgomeryville PA.....	215-822-0321
UVP Inc San Gabriel CA.....	818-285-3123
Xenon Corp Woburn MA.....	617-658-8940

ULTRAVIOLET LAMPS

See Lamps

ULTRAVIOLET OZONE CLEANING

BHK Inc Monrovia CA.....	213-357-9667
Uvocs Inc Montgomeryville PA.....	215-822-0321
UVP Inc San Gabriel CA.....	818-285-3123

UNDERWATER COMMUNICATIONS SYSTEMS

See Communications Systems

UNIVERSAL JOINTS

See Shaft Couplings

UP CONVERTERS

See Microwave Frequency Multipliers

VACUUM-FORMED PARTS

See Plastic Parts

VACUUM FURNACES

See Furnaces

VACUUM GAGES

See Gages

VACUUM IMPREGNATING MACHINES

See Machines—Impregnating

VACUUM LINES & FITTINGS

CERAMASEAL DIV CLEVEPAK CORP	
NEW LEBANON CENTER NY	518-794-7800
Andonian Cryogenics Inc Newtonville MA.....	617-969-8010
Beach-Russ Co Brooklyn NY.....	212-388-4090
Ceramaseal Div Clevepak Corp	
New Lebanon Center NY.....	518-794-7800
Cooke Vacuum Products Inc	
South Norwalk CT.....	203-853-9500
Cryolab Inc San Luis Obispo CA.....	805-541-2796
C-Temp Inc Anaheim CA.....	714-630-8451
CVC Products Inc Rochester NY.....	716-458-2550
Edwards High Vacuum (Canada) Ltd	
Oakville ON.....	416-845-3437
Hull Corp Hatboro PA.....	215-672-7800
Leybold-Heraeus Technologies Inc	
San Jose CA.....	408-294-7759
Materials Research Corp Orangeburg NY.....	914-359-4200
Varian/Vacuum Products Div Lexington MA.....	617-861-7200

VACUUM METALIZING METALS

See Metals

See Also Metals—Ultra-Pure; Wire—Bare

VACUUM METALIZING SERVICES

See Production Services; Plastic

Parts—Metalized

VACUUM OVENS

See Ovens

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sales office—

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VACUUM PUMPS

CTI CRYOGENICS DIV HELIX TECH CORP	
WALTHAM MA	617-890-9400
ADV PG 523	
SAES GETTERS/USA INC	
COLORADO SPRINGS CO	303-576-3200
Air Control Inc Huntingdon Valley PA	215-322-5800
Air-Vac Engineering Co Milford CT	203-874-2541
AMETEK Inc Lamb Electric Div Kent OH	216-673-3451
Andonian Cryogenics Inc Newtonville MA	617-969-8010
Beach-Russ Co Brooklyn NY	212-388-4090
Brailsford Co Inc Rye NY	914-967-1820
Cooke Vacuum Products Inc	
South Norwalk CT	203-853-9500
CTI Cryogenics Div Helix Tech Corp	
Waltham MA	617-890-9400
CVC Products Inc Rochester NY	716-458-2550
Devco Engineering Inc Fairfield NJ	201-228-0321
Edsyn Inc Van Nuys CA	818-989-2324
Edwards High Vacuum (Canada) Ltd	
Oakville ON	416-845-3437
ETM Corp Monrovia CA	213-359-8102
Everett/Charles Test Equipment Inc	
Pomona CA	714-621-9511
Factron/Schlumberger Latham NY	518-783-3600
GCA/Instruments & Equip Group Chicago IL	312-227-2660
Headway Research Inc Garland TX	214-272-5431
High Vacuum Equipment Corp Hingham MA	617-749-9000
Hull Corp Hatboro PA	215-672-7800
IVI Corp Pembroke MA	617-826-3195
Kurz Instruments Inc Carmel Valley CA	408-659-3421
Lear Siegler Inc Santa Monica CA	213-452-5444
Lear Siegler Inc Romec Div Elyria OH	216-323-3211
Leybold-Heraeus Technologies Inc	
San Jose CA	408-294-7759
Materials Research Corp Orangeburg NY	914-359-4200
Mitchell-Hughes Co North Hollywood CA	818-983-2535
Ocean Technology Inc Burbank CA	213-849-7111
SAES Getters/USA Inc Colorado Springs CO	303-576-3200
Sargent-Weich Scientific Co Skokie IL	312-677-0600
Varian/Vacuum Products Div Lexington MA	617-861-7200
Westinghouse Elec Corp Ind & Govt Tube Div	
Horseheads NY	607-796-3211

VACUUM SPUTTERING TARGETS (WITH MATERIALS TO BE DEPOSITED)

PERKIN-ELMER CORP SEMICONDUCTOR EQUIP GROUP	
NORWALK CT	203-834-6057
ADV PGS 254,255	
PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA	617-226-1200
Atomergic Chemetals Corp Plainview NY	516-349-8800
Cerac Inc Milwaukee WI	414-289-9800
Circuits Processing Apparatus Inc	
Fremont CA	415-490-8741
Iminco Electronic Materials Inc	
Spokane WA	509-924-2200
Cooke Vacuum Products Inc	
South Norwalk CT	203-853-9500
Eagle-Picher Industries Inc Quapaw OK	918-673-1650
EM Industries Inc Hawthorne NY	914-592-4660
Engelhard Industries Iselin NJ	201-321-5900
General Diode Corp Framingham MA	617-879-0880
General Engineering USA Ltd	
South Windsor CT	203-528-4474
GTE Lighting Products Danvers MA	617-777-1900
GTE Precision Materials Danvers MA	617-777-1900
Inotech Corp Trumbull CT	203-371-0191
IVI Corp Pembroke MA	617-826-3195
Leybold-Heraeus Technologies Inc	
San Jose CA	408-294-7759
Materials Research Corp Orangeburg NY	914-359-4200
NRC Inc Newton MA	617-969-7690
Perkin-Elmer Corp Semiconductor Equip Group	
Norwalk CT	203-834-6057
Precision Metallurgical Corp A Leach & Garner Co	
Attleboro MA	617-226-1200
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp	
New York NY	212-966-4330
Wilkinson Co Westlake Village CA	818-889-0050

VACUUM SYSTEM CONTROLS

See Controls

VACUUM SYSTEM LEAK DETECTORS

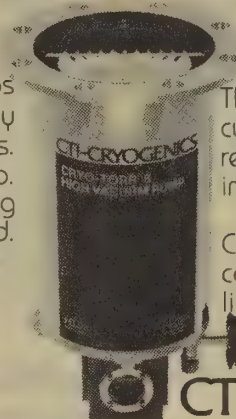
See Leak Detectors

VACUUM SYSTEMS—METALIZING & SPUTTERING

PERKIN-ELMER CORP SEMICONDUCTOR EQUIP GROUP	
NORWALK CT	203-834-6057
ADV PGS 254,255	
Andonian Cryogenics Inc Newtonville MA	617-969-8010
Beach-Russ Co Brooklyn NY	212-388-4090
Circuits Processing Apparatus Inc	
Fremont CA	415-490-8741
Cooke Vacuum Products Inc	
South Norwalk CT	203-853-9500
CVC Products Inc Rochester NY	716-458-2550
Eaton Semiconductor Equip Oper	
San Jose CA	408-943-0800
Edwards High Vacuum (Canada) Ltd	
Oakville ON	416-845-3437
Elmik Instruments Inc Fairfield NJ	201-882-8033
Engelhard Industries Iselin NJ	201-321-5900

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General Engineering USA Ltd	
South Windsor CT	203-528-4474
High Vacuum Equipment Corp Hingham MA	617-749-9000
Hitrans Corp Flemington NJ	201-782-5525
IVI Corp Pembroke MA	617-826-3195
Leybold-Heraeus Technologies Inc	
San Jose CA	408-294-7759
Materials Research Corp Orangeburg NY	914-359-4200
MKS Instruments Inc Burlington MA	617-272-9255
Omega Industries Inc Newport Beach CA	714-642-8313
Perkin-Elmer Corp Semiconductor Equip Group	
Norwalk CT	203-834-6057
Process & Instruments Corp Brooklyn NY	718-452-8380
Richland Glass Co Richland NJ	609-691-1697
Vac-Tec Systems Inc Boulder CO	303-449-5180
Varian Semiconductor Equip Group	
Palo Alto CA	415-493-4000

VACUUM TEST CHAMBERS

See Chambers—Environmental

VACUUM TUBE VOLTMETERS

See Voltmeters—VTVM

VACUUM VALVES

LINEMASTER SWITCH CORP	
WOODSTOCK CT	203-974-1000
Andonian Cryogenics Inc Newtonville MA	617-969-8010
Automatic Switch Co Florham Park NJ	201-966-2000
Beach-Russ Co Brooklyn NY	212-388-4090
Bendix Corp Fluid Power Div Utica NY	315-797-2500
Brew & Co Inc Richard D Concord NH	603-225-6605
Circuits Processing Apparatus Inc	
Fremont CA	415-490-8741
Cooke Vacuum Products Inc	
South Norwalk CT	203-853-9500
Cryolab Inc San Luis Obispo CA	805-541-2796
CVC Products Inc Rochester NY	716-458-2550
Edwards High Vacuum (Canada) Ltd	
Oakville ON	416-845-3437
Everett/Charles Test Equipment Inc	
Pomona CA	714-621-9511
The Foxboro Co Foxboro MA	617-643-8750
Gilmont Instruments Inc Great Neck NY	516-487-0120
Granville-Phillips Co Boulder CO	303-443-7660
High Vacuum Equipment Corp Hingham MA	617-749-9000
Hi-Stat Mfg Co Inc Lexington OH	419-884-1219
Hoke Incorporated Cresskill NJ	201-568-9100
IVI Corp Pembroke MA	617-826-3195
Jamesbury Corp Worcester MA	617-852-0200
Laketown Mfg Corp Vaconia MN	612-442-4477

Linemaster Switch Corp Woodstock CT	203-974-1000
MKS Instruments Inc Burlington MA	617-272-9255
Parker Pneutronics E Pepperell MA	617-433-2721
Singer Co Controls Div Schiller Pk IL	312-678-4150
Skinner Valve Div Honeywell Inc	
New Britain CT	203-827-2310
U S Plastic Corp Lima OH	419-228-2242
Vac-Tec Systems Inc Boulder CO	303-449-5180
Varian/Vacuum Products Div Lexington MA	617-861-7200

VALVES

See Servo Valves; Solenoid Valves; Vacuum Valves

VANS

See Trailer & Vans

VARACTORS

See Diodes—Varactor

VARIABLE COMPONENTS

See Types of Component Desired

VARISTORS

EDAL INDUSTRIES INC EAST HAVEN CT	203-467-2591
ADV PG 388	
INTERNATIONAL COMPONENTS CORP	
MELVILLE NY	516-293-1500
PHILIPS ECG INC WALTHAM MA	617-890-6107
RCD COMPONENTS INC	
MANCHESTER NH	603-669-0054
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
TDK CORP TOKYO JAPAN	03-278-5111
TELEDYNE SOLID STATE DIV TELEDYNE RELAYS	
HAWTHORNE CA	213-777-0077
THOMSON COMPONENTS MOSTEK CORP PASSIVE	
COMPS DIV WOODLAND HILLS CA	818-887-1010
Eastern Delta Corp Nutley NJ	201-667-8721
Edal Industries Inc East Haven CT	203-467-2591
General Electric Semiconductor Syracuse NY	315-456-3447
General Semiconductor Industries Inc	
Tempe AZ	602-968-3101
Green Rectifier Corp Nutley NJ	201-667-8721
GTE Lighting Products Danvers MA	617-777-1900
International Components Corp Melville NY	516-293-1500
Malda Development Co Hampton VA	804-723-0785
Marcon America Corp Northbrook IL	312-564-2820
Mepco/Centralab Inc Jupiter FL	305-842-3201

Midwest Components Inc Muskegon MI.....	616-777-2602
NTE Electronics Inc Bloomfield NJ.....	201-748-5089
Oneida Electronic Mfg Inc Meadville PA.....	814-336-2125
Panasonic Co Electronic Components Div Secaucus NJ.....	201-348-5200
Philips ECG Inc Waltham MA.....	617-890-6107
RCD Components Inc Manchester NH.....	603-669-0054
Sager Hingham MA.....	617-749-6700
Schauer Mfg Corp Cincinnati OH.....	513-791-3030
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Siemens Components Inc Iselin NJ.....	201-321-3400
Sohio Carborundum Niagara Falls NY.....	716-278-2521
Sohio Engineered Materials Co Niagara Falls NY.....	716-278-2000
SPC Technology Bensenville IL.....	312-766-6711
Stetron International Inc Buffalo NY.....	716-854-3443
Taiyo Yuden USA Inc Arlington Hts IL.....	312-364-6104
TDK Corp Tokyo Japan.....	03-278-5111
Teledyne Solid State Div Teledyne Relays Hawthorne CA.....	213-777-0077
Thomson Components Mostek Corp Passive Comps Div Woodland Hills CA.....	818-887-1010
Victory Engineering Corp Springfield NJ.....	201-379-5900
Workman Electronic Products Inc Sarasota FL.....	800-237-6666

VARNISHES—INSULATING

See Also Paints & Varnishes; Wire Enamels

Dolph Co John C Monmouth Junction NJ.....	201-329-2333
Dow Corning Corp Midland MI.....	517-496-4000
Echelon Industries Inc Walnut CA.....	714-594-1891
Electro-Science Labs Inc King of Prussia PA.....	215-272-8000
EpoxyLite Corp Anaheim CA.....	714-630-7910
Essex Group/IWI Ft Wayne IN.....	219-461-4000
Formulated Resins Inc Greenville RI.....	401-949-2060
Furane Products Co Los Angeles CA.....	818-247-6210
General Electric Co Silicone Prods Div Waterford NY.....	518-237-3330
Hightemp Resins Inc Stamford CT.....	203-357-7401
Martindale Electric Co Cleveland OH.....	216-521-8567
Master Bond Inc Englewood NJ.....	201-343-8983
Nitto Denko America Inc Port Washington NY.....	516-484-9700
Rawn Co Inc Spooner WI.....	715-635-8711
Schenectady Chemicals Inc Schenectady NY.....	518-370-4200
Sterling Corp Reichhold Chemicals Sewickley PA.....	412-766-7600
Viking Chemical Products Inc Waverly NY.....	607-565-4551

VCO OSCILLATORS

See Oscillators—Voltage Controlled

VECTORSCHOPIES

See Oscilloscopes

VECTOR VOLT METERS

See Voltmeters

VELOCITY TRANSDUCERS

See Accelerometers; Transducers—Angular
Acceleration; Transducers—Linear Velocity

VENTILATION & COOLERS

See Blowers & Fans; Ducts; Louvers
See Also Cooling Units

VHF & UHF TUNERS

See UHF & VHF Tuners

VIBRATION ANALYSIS EQUIPMENT

ELGENCO INC HURRICANE UT.....	801-635-4954
ENTRAN DEVICES INC FAIRFIELD NJ.....	201-227-1002
Balance Technology Inc Ann Arbor MI.....	313-769-2100
Betatronics Inc Lincolnwood IL.....	312-676-1747
Bruehl & Kjaer Instruments Inc Marlboro MA.....	617-481-7000
Chadwick Helmut Co Inc El Monte CA.....	213-575-6161
Columbia Research Labs Inc Woodlyn PA.....	215-872-3900
Electrac Inc Anaheim CA.....	714-879-6021
Elgenco Inc Hurricane UT.....	801-635-4954
Endevco San Juan Capistrano CA.....	714-493-8181
Entran Devices Inc Fairfield NJ.....	201-227-1002
Epic Inc New York NY.....	212-349-2470
Gen Rad Inc Waltham MA.....	617-369-4400
Genstar Rental Electronics Inc Woodland Hills CA.....	818-887-4000
Hewlett-Packard Palo Alto CA.....	415-857-8000
Hottlinger Baldwin Measurements Inc Framingham MA.....	617-875-8282
IFD Technology Houston TX.....	713-488-0777
Indikon Corp Cambridge MA.....	617-547-3604
IRD Mechanalysis Inc Columbus OH.....	614-885-5376
Leasametric Inc Foster City CA.....	415-574-4441
Mechanical Technology Inc Latham NY.....	518-785-2211
Metrix Instrument Co Houston TX.....	713-461-2131
Norland Corp Fort Atkinson WI.....	414-563-8456
PCB Piezotronics Inc Depew NY.....	716-684-0001
Rochester Instrument Systems Inc Rochester NY.....	716-263-7700
Rockland Scientific Inc Rockleigh NJ.....	201-767-7900

Schenck Trebel Corp Deer Park NY.....	516-242-4010
Scientific-Atlanta Inc Atlanta GA.....	404-441-4000
SKF Industries Inc King of Prussia PA.....	215-265-1900
Spectral Dynamics Div Scientific-Atlanta Inc San Diego CA.....	619-268-7100
Syston Donner Inertial Div Concord CA.....	415-671-6400
Techtron Elkhart IN.....	219-294-8300
Tektronix Inc Beaverton OR.....	800-547-6711
UFI Morro Bay CA.....	805-772-1203
Unholtz-Dickie Corp Wallingford CT.....	203-265-3929
Vibra-Metrics Inc Hamden CT.....	203-288-6158
Vibro-Meter Corp Billerica MA.....	617-663-7322
Vitec Inc Cleveland OH.....	216-464-4670

VIBRATION METERS

See Vibration Analysis Equipment; Vibration
Monitors

VIBRATION & SHOCK MOUNTS

HUNTER PRODUCTS INC BRIDGEWATER NJ.....	201-526-8440
Aeroflex Labs Inc Plainview NY.....	516-694-6700
Barry Controls Unit Barry Wright Corp Watertown MA.....	617-923-1150
Ealing Corp South Natick MA.....	617-655-7000
E-A-R Div Cabot Corp Indianapolis IN.....	317-872-1111
Grant Hardware Co Div Grant Ind Inc Haverstraw NY.....	914-358-4400
Hardig Industries Inc South Deerfield MA.....	413-665-2163
Hunter Products Inc Bridgewater NJ.....	201-526-8440
Lord Corp Aerospace Products Div Erie PA.....	814-456-8511
Minor Rubber Co Inc Bloomfield NJ.....	201-338-6800
Nikon Inc Instrument Group Garden City NY.....	516-222-0200
Physitac Corp Norfolk VA.....	617-528-4100
Stock Drive Products Inc Div Designatronics New Hyde Park NY.....	516-328-0200
Sunnex Inc Needham MA.....	617-444-4730
Technical Specialties Co Inc Spring Valley NY.....	914-425-9700
Teknational Industries Inc Rochester NY.....	716-232-1291
Vernay Lab Inc Yellow Springs OH.....	513-767-7261
Vibra-Metrics Inc Hamden CT.....	203-288-6158

VIBRATION MONITORS

ENTRAN DEVICES INC FAIRFIELD NJ.....	201-227-1002
TELEDYNE GEOTECH GARLAND TX.....	214-271-2561
Alpha-M Corp Eufess TX.....	817-267-7022
Balance Technology Inc Ann Arbor MI.....	313-769-2100
Bruehl & Kjaer Instruments Inc Marlboro MA.....	617-481-7000
Columbia Research Labs Inc Woodlyn PA.....	215-872-3900
Electrac Inc Anaheim CA.....	714-879-6021
Endevco San Juan Capistrano CA.....	714-493-8181
Entran Devices Inc Fairfield NJ.....	201-227-1002
IFD Technology Houston TX.....	713-488-0777
Indikon Corp Cambridge MA.....	617-547-3604
IRD Mechanalysis Inc Columbus OH.....	614-885-5376
Metrix Instrument Co Houston TX.....	713-461-2131
PCB Piezotronics Inc Depew NY.....	716-684-0001
Physical Acoustics Corp Princeton NJ.....	609-452-2510
Rochester Instrument Systems Inc Rochester NY.....	716-263-7700
Schenck Trebel Corp Deer Park NY.....	516-242-4010
Scientific-Atlanta Inc Atlanta GA.....	404-441-4000
Scott Instrument Labs Div AEC Corp Hudson NH.....	603-880-6300
Spectral Dynamics Div Scientific-Atlanta Inc San Diego CA.....	619-268-7100
Syston Donner Inertial Div Concord CA.....	415-671-6400
Teledyne Geotech Garland TX.....	214-271-2561
Unholtz-Dickie Corp Wallingford CT.....	203-265-3929
United Detector Technology Hawthorne CA.....	213-978-0516
Vibra-Metrics Inc Hamden CT.....	203-288-6158
Vibro-Meter Corp Billerica MA.....	617-663-7322
Vitec Inc Cleveland OH.....	216-464-4670
Vu-Data Corp San Diego CA.....	619-279-6572
West Coast Research Corp Los Angeles CA.....	213-478-8833

VIBRATION TEST CHAMBERS

See Chambers—Environment

VIBRATION TEST MACHINES (SHAKE TABLES)

All American Tool & Mfg Co Inc Skokie IL.....	312-673-7084
Alpha-M Corp Eufess TX.....	817-267-7022
Bruehl & Kjaer Instruments Inc Marlboro MA.....	617-481-7000
Gen Rad Inc Waltham MA.....	617-369-4400
Mechanical Technology Inc Latham NY.....	518-785-2211
MTS Systems Corp Minneapolis MN.....	612-937-4000
Spartan Technology Inc Rio Rancho NM.....	505-892-5300
Thermotron Industries Holland MI.....	616-392-1492
Unholtz-Dickie Corp Wallingford CT.....	203-265-3929
Wilcoxon Engineering Rockville MD.....	301-330-8811
Wilson Co H M Houston TX.....	713-729-1183

VIBRATION TRANSDUCERS

See Transducers

VIBRATORS & DRILLS—ULTRASONIC

See Ultrasonic Equipment

VIBRATOR TESTERS

See Testers—Chopper & Vibrator

VIBRATOR TYPE CONVERTERS & INVERTERS

See Power Converters; Power Inverters

VIDEO EQUIPMENT

See TV Listings

See Also Amplifiers; Analyzers; Attenuators;
Delay Lines; Etc.

VINYLS

See Fabrics; Plastics

VISCOSITY TRANSDUCERS

See Transducers

VOICE CODERS (VOCODERS)

See Encoders—Voice

VOICE I/O EQUIPMENT

See Speech Recognition & Synthesis

VOLTAGE COMPARATORS

See Comparators; Amplifiers; ICs Listings

VOLTAGE—CONTROLLED CIRCUITS

See Amplifiers; Attenuators; Oscillators; Etc.

VOLTAGE DIVIDERS (EXCEPT POTENTIOMETERS OR TRANSFORMERS)

ALLEN-BRADLEY CO MILWAUKEE WI.....	414-382-2000
DEL ELECTRONICS CORP MT VERNON NY.....	914-699-2000
HIPOTRONICS INC BREWSTER NY.....	914-279-8099
PEARSON ELECTRONICS INC PALO ALTO CA.....	415-494-6444
SENSITIVE RESEARCH INSTRUMENTS MT VERNON NY.....	914-699-9711
ADV PG 527	
Allen-Bradley Co Milwaukee WI.....	414-382-2000
American HV Test Systems Inc Accident MD.....	301-826-865
Analog Devices Inc Norwood MA.....	617-329-470
Astrosystems Inc Lake Success NY.....	516-328-160
Aydin Radar & EW Div San Jose CA.....	408-629-110
Bruce Electric Equipment Corp Lindenhurst NY.....	516-226-242
Caddock Electronics Inc Riverside CA.....	714-788-170
Del Electronics Corp Mt Vernon NY.....	914-699-2000
Digitran/Computron Inc Pasadena CA.....	818-791-560
EEOO Incorporated Santa Ana CA.....	714-835-600
Electrical Instrument Service Inc Mt Vernon NY.....	914-699-9711
Electrical Standards Div ESRs Inc North Hollywood CA.....	213-765-422
Electro Scientific Industries Inc Portland OR.....	503-641-414
General Resistance Inc N Branford CT.....	203-481-572
Genstar Rental Electronics Inc Woodland Hills CA.....	818-887-4000
Guidline Instruments Inc Orlando FL.....	305-423-821
Heath Co Benton Harbor MI.....	616-982-320
Hipotronics Inc Brewster NY.....	914-279-8099
Industrial Test Equipment Powertron Port Washington NY.....	516-883-170
Jennings Div FL Industries San Jose CA.....	408-292-402
Julie Research Labs Inc New York NY.....	212-245-272
Keithley Instruments Inc Cleveland OH.....	216-248-040
Kelvin Van Nuys CA.....	818-782-666
Koep Precision Standards Inc South Plainfield NJ.....	201-549-928
Leeds & Northrup Instruments North Wales PA.....	215-643-200
Megatran Electronic Power Bordentown NJ.....	609-298-730
Moseley Associates Inc Goleta CA.....	805-968-962
NES Inc Carpentersville IL.....	312-426-590
North Hills Electronics Inc Glen Cove NY.....	516-671-570
NWL Transformers Bordentown NJ.....	609-298-730
Oram Electronics Inc Brewster NY.....	914-279-296
Pearson Electronics Inc Palo Alto CA.....	415-494-644
Peschel Instruments Inc Cape Coral FL.....	813-574-316
Ross Engineering Corp Campbell CA.....	408-377-462
Rutherford Research Co Rutherford NJ.....	201-933-209
Sensitive Research Instruments Mt Vernon NY.....	914-699-9711
Spellman High Voltage Electronics Corp Plainview NY.....	516-349-868
State of the Art Inc State College PA.....	814-355-800
Tetex Instruments Inc Fairview Village PA.....	215-539-605
Thickfilm Intl Indian Head MD.....	301-375-866
Thorn EMI Gencom Inc Fairfield NJ.....	201-575-558

VOLTAGE REGULATORS

See Regulators; ICs Listings

VOLTAGE SOURCES—DECADE

ELGAR CORP AN ONAN OPERATING UNIT	
SAN DIEGO CA	619-450-0085
ADV PG 337	
IET LABS INC WESTBURY NY	516-334-5959
Analogic Corp Peabody MA	617-532-5660
Anascope Corp Wakefield MA	617-246-3300
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Cincinnati ElectroSystems Inc Loveland OH	513-831-4347
Electronic Development Corp Boston MA	617-268-9696
Elgar Corp An Onan Operating Unit	
San Diego CA	619-450-0085
Eurotherm Corp Reston VA	703-471-4870
General Resistance Inc N Brantford CT	203-481-5721
Hewlett-Packard Palo Alto CA	415-857-8000
Holt Instrument Div C P D Engrg Inc	
Oconto WI	414-834-2222
Ideal Electronics Corp Valley Stream NY	516-825-8955
IET Labs Inc Westbury NY	516-334-5959
Julie Research Labs Inc New York NY	212-245-2727
Keithley Instruments Inc Cleveland OH	216-248-0400
Koep Precision Standards Inc	
South Plainfield NJ	201-549-9280
North Hills Electronics Inc Glen Cove NY	516-671-5700
Rotek Instrument Corp Waltham MA	617-899-4611
Valhalla Scientific Inc San Diego CA	619-457-5576
Zi-Tech Instrument Corp Palo Alto CA	415-326-2151

VOLTAGE STANDARDS

See Standards

VOLTMETER ACCESSORIES

See Instruments & Accessories Reference List

VOLTMETER CALIBRATORS

See Calibrators

VOLTMETERS, AC—DIGITAL (VOLT & MILLIVOLTMETERS)

BOONTON ELECTRONICS CORP	
RANDOLPH NJ	201-584-1077
ADV PG 525	
LARKE-HESS COMMUNICATIONS RESEARCH	
NEW YORK NY	212-255-2940
DCI INC OLATHE KS	913-782-5672
ADV PG 270	
HUNTER PRODUCTS INC	
BRIDGEWATER NJ	201-526-8440
IET LABS INC WESTBURY NY	516-334-5959
MODUTEC INC NORWALK CT	203-853-3636
NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
TEXMATE INC SOLANA BEACH CA	619-481-7177
ADV PGS 268,269	
Advantest Corp Tokyo Japan	03-342-7500
Analogic Corp Peabody MA	617-532-5660
Anascope Corp Wakefield MA	617-246-3300
Audio Precision Inc Beaverton OR	503-297-4837
Axonix Corp Burlington MA	617-273-5550
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Bitronics Inc Bethlehem PA	215-865-2444
B & K Precision Products Dynascan Corp	
Chicago IL	312-889-9087
Boonton Electronics Corp Randolph NJ	201-584-1077
Calibron Instruments Div Burton-Rogers Co	
Waltham MA	617-894-6440
Caltemp Instrument Inc Escondido CA	714-743-2800
Clarke-Hess Communications Research	
New York NY	212-255-2940
Colorado Data Systems Inc Englewood CO	800-237-2831
Computer Measurements Co Chatsworth CA	818-341-0800
Continental Resources Inc Bedford MA	617-275-0850
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Data Precision Div Analogic Danvers MA	617-246-1600
Dataq Instruments Inc Akron OH	216-434-4284
Datron Instruments Inc Stuart FL	305-283-0935
DCI Inc Olathe KS	913-782-5672
Digitec Dayton OH	513-254-6251
DNI Industries Inc Torrance CA	213-328-0750
Dowry RFL Indus Instr Div Boonton NJ	201-334-3100
Dranetz Technologies Inc Edison NJ	201-287-3680
E I L Instruments Inc Sparks MD	301-771-4800
Electronics Warehouse Inc Old Lyme CT	203-434-9838
Epoch Enterprises Ltd Tucson AZ	602-887-1970
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hameg Inc Port Washington NY	516-883-3837
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
Hunter Products Inc Bridgewater NJ	201-526-8440
IET Labs Inc Westbury NY	516-334-5959
Keithley Instruments Inc Cleveland OH	216-248-0400
Leader Instruments Corp Hauppauge NY	516-231-6900
LE Corp Instruments Div Clinton MA	617-835-1000

Micro Instrument Co Escondido CA	619-746-2010
Millivac Instruments Inc Schenectady NY	518-355-8300
Modutec Inc Norwalk CT	203-853-3636
NES Inc Carpentersville IL	312-426-5900
Newport Electronics Inc Santa Ana CA	714-540-4914
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953
North American Soar Corp Cherry Hill NJ	609-488-1060
Omega Engineering Inc Stamford CT	203-359-1660
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
PPM Inc Cleveland OH	216-292-6006
Precision Digital Corp Watertown MA	617-924-2256
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Ross Engineering Corp Campbell CA	408-377-4621
Sager Hingham MA	617-749-6700
Sencore Inc Sioux Falls SD	605-339-0100
Simpson Electric Co Elgin IL	312-697-2260
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
Sycon-Weston Div Sycon Corp Marion OH	614-382-5771
Tektronix Inc Beaverton OR	800-547-6711
Texmate Inc Solana Beach CA	619-481-7177
Triplett Corp/A Penril Div Bluffton OH	419-358-5015
Tucker Electronics Co Garland TX	214-348-8800
Universal Enterprises Inc Portland OR	503-644-8723
Valhalla Scientific Inc San Diego CA	619-457-5576
Viz Test Equip Div Viz Mfg Co	
Philadelphia PA	215-844-2626
Yokogawa Corp Of America Shenandoah GA	404-253-7000

VOLTMETERS, AC—METER READOUT (VOLT & MILLIVOLTMETERS)

BOONTON ELECTRONICS CORP	
RANDOLPH NJ	201-584-1077
ADV PG 525	
IET LABS INC WESTBURY NY	516-334-5959
MODUTEC INC NORWALK CT	203-853-3636
NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY	914-699-9717
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
A & D Electrical Instruments Glendale NY	718-275-6516
A & M Instrument Inc Rockville Centre NY	516-678-6960
Amprobe Instrument Div Core Indus Inc	
Lynbrook NY	516-593-5600
Anascope Corp Wakefield MA	617-246-3300
Axonix Corp Burlington MA	617-273-5550
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Bartlett Instrument Co Fort Madison IA	319-372-8366
Bitronics Inc Bethlehem PA	215-865-2444
B & K Precision Products Dynascan Corp	
Chicago IL	312-889-9087
Boonton Electronics Corp Randolph NJ	201-584-1077
Calibron Instruments Div Burton-Rogers Co	
Waltham MA	617-894-6440
Caltemp Instrument Inc Escondido CA	714-743-2800
Continental Resources Inc Bedford MA	617-275-0850
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Dixon Inc Grand Junction CO	303-242-8863
Dowry RFL Indus Instr Div Boonton NJ	201-334-3100
E I L Instruments Inc Sparks MD	301-771-4800
Electrical Instrument Service Inc	
Mt Vernon NY	914-699-9717
EMICO Inc Dublin PA	215-249-9330
Epoch Enterprises Ltd Tucson AZ	602-887-1970
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Greibach Instruments Mt Vernon NY	914-699-9717
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Hoyt Electrical Instrument Wks Inc	
Penacook NH	603-753-6321
IET Labs Inc Westbury NY	516-334-5959
International Instruments Div Gen Resistance Inc	
North Brantford CT	203-481-3450
Jewell Electrical Instruments Inc	
Manchester NH	603-669-6400
Julie Research Labs Inc New York NY	212-245-2727
Larson Instrument Co Inc Orangeburg NY	914-359-3800
Leader Instruments Corp Hauppauge NY	516-231-6900
Leasametric Inc Foster City CA	415-574-4441
LFE Corp Instruments Div Clinton MA	617-835-1000
Micro Instrument Co Escondido CA	619-746-2010
Millivac Instruments Inc Schenectady NY	518-355-8300
Modutec Inc Norwalk CT	203-853-3636
Newport Electronics Inc Santa Ana CA	714-540-4914
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953
North American Soar Corp Cherry Hill NJ	609-488-1060
Phaestron Instrument & Elect Co Azusa CA	818-969-6801
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Precision Digital Corp Watertown MA	617-924-2256
Q V S Inc East Orange NJ	201-673-3996
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Rockwell Engineering Co Indianapolis IN	317-251-9453
Ross Engineering Corp Campbell CA	408-377-4621
Sager Hingham MA	617-749-6700
Sargent-Welch Scientific Co Skokie IL	312-677-0600
Sensitive Research Instruments Mt Vernon NY	914-699-9717
Shokai Far East Ltd Hartsdale NY	914-681-0700
Simpson Electric Co Elgin IL	312-697-2260
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
Square D Co Palatine IL	312-397-2600
States Co Div Multi-Amp Corp Dallas TX	214-333-3201
Sterling Mfg Co Cleveland OH	216-781-7136
Triplett Corp/A Penril Div Bluffton OH	419-358-5015
TSI Inc St Paul MN	612-483-0900
Tucker Electronics Co Garland TX	214-348-8800

BOONTON

■ RF Milli-voltmeters

■ Microwave Powermeters

■ FM/AM Signal Generators

■ FM/AM Modulation Meters

■ Capacitance Bridges and Meters

■ Inductance Meters

■ Audio Test Instruments

BOONTON ELECTRONICS CORPORATION
 791 Route 10
 Randolph, NJ 07869
 Tel. 201-584-1077

Universal Enterprises Inc Portland OR	503-644-8723
Viz Test Equip Div Viz Mfg Co	
Philadelphia PA	215-844-2626
Westberg Mfg Inc Sonoma CA	707-938-2121
Yokogawa Corp Of America Shenandoah GA	404-253-7000

VOLTMETERS, AC—MICROVOLTMETERS

IET LABS INC WESTBURY NY	516-334-5959
MODUTEC INC NORWALK CT	203-853-3636
NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Analogic Corp Peabody MA	617-532-5660
Anascope Corp Wakefield MA	617-246-3300
Audio Precision Inc Beaverton OR	503-297-4837
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Bowmar/ALI Inc Acton MA	617-263-8365
Colorado Data Systems Inc Englewood CO	800-237-2831
Dataq Instruments Inc Akron OH	216-434-4284
Dixon Inc Grand Junction CO	303-242-8863
Epoch Enterprises Ltd Tucson AZ	602-887-1970
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc	
Woodland Hills CA	818-887-4000
Hewlett-Packard Palo Alto CA	415-857-8000
Hoyt Electrical Instrument Wks Inc	
Penacook NH	603-753-6321
IET Labs Inc Westbury NY	516-334-5959
Keithley Instruments Inc Cleveland OH	216-248-0400
Leasametric Inc Foster City CA	415-574-4441
LFE Corp Instruments Div Clinton MA	617-835-1000
Millivac Instruments Inc Schenectady NY	518-355-8300
Modutec Inc Norwalk CT	203-853-3636
Newport Electronics Inc Santa Ana CA	714-540-4914
Non-Linear Systems Div Kaypro Corp	
Solana Beach CA	619-481-3953
Pioneer Instrumentation Div Pioneer Std	
Cleveland OH	216-587-3600
Precision Digital Corp Watertown MA	617-924-2256
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Rohde & Schwarz GmbH & Co KG	
Muenchen W Germany	089-41290
Shokai Far East Ltd Hartsdale NY	914-681-0700
Tektronix Inc Beaverton OR	800-547-6711
Tucker Electronics Co Garland TX	214-348-8800
Wandel & Goltermann Inc	
Research Triangle Pk NC	919-544-8450

VOLTMETERS—BALLISTIC

MODUTEC INC NORWALK CT	203-853-3636
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Modutec Inc Norwalk CT	203-853-3636
NES Inc Carpentersville IL	312-426-5900
Ross Engineering Corp Campbell CA	408-377-4621

VOLTMETERS—CONTACT MAKING

MODUTEC INC NORWALK CT	203-853-3636
Bitronics Inc Bethlehem PA	215-865-2444
LFE Corp Instruments Div Clinton MA	617-835-1000
Millivac Instruments Inc Schenectady NY	518-355-8300
Modutec Inc Norwalk CT	203-853-3636
NES Inc Carpentersville IL	312-426-5900
Pacer Industries Inc Chippewa Falls WI	715-723-1141
Pioneer Instrumentation Div Pioneer Std Cleveland OH	216-587-3600

VOLTMETERS, DC—DIFFERENTIAL,
NULL OR REFERENCE

MODUTEC INC NORWALK CT	203-853-3636
NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY	914-699-9717
A & D Electrical Instruments Glendale NY	718-275-6516
AEMC Corp Boston MA	617-451-0227
Anasco Corp Wakefield MA	617-246-3300
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Bowmar/ALI Inc Acton MA	617-263-8365
Calibron Instruments Div Burton-Rogers Co Waltham MA	617-894-6440
Continental Resources Inc Bedford MA	617-275-0850
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Dixon Inc Grand Junction CO	303-242-8863
Doric Scientific Div Emerson Elec Co San Diego CA	619-565-4415
E I L Instruments Inc Sparks MD	301-771-4800
Electrical Instrument Service Inc Mt Vernon NY	914-699-9717
Electronic Development Corp Boston MA	617-268-9696
Fluke Mfg Co Inc John Everett WA	206-356-5400
General Resistance Inc N Brantford CT	203-481-3450
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000
Greibach Instruments Mt Vernon NY	914-699-9717
Hewlett-Packard Palo Alto CA	415-857-8000
Hoyt Electrical Instrument Wks Inc Penacook NH	603-753-6321
Julie Research Labs Inc New York NY	212-245-2727
Keithley Instruments Inc Cleveland OH	216-248-0400
LFE Corp Instruments Div Clinton MA	617-835-1000
Millivac Instruments Inc Schenectady NY	518-355-8300
Modutec Inc Norwalk CT	203-853-3636
Newport Electronics Inc Santa Ana CA	714-540-4914
Phaestron Instrument & Elect Co Azusa CA	818-969-6801
Pioneer Instrumentation Div Pioneer Std Cleveland OH	216-587-3600
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Ross Engineering Corp Campbell CA	408-377-4621
Sensitive Research Instruments Mt Vernon NY	914-699-9717
Simpson Electric Co Elgin IL	312-697-2260
Triplet Corp/A Penril Div Bluffton OH	419-358-5015
Tucker Electronics Co Garland TX	214-348-8800
Zi-Tech Instrument Corp Palo Alto CA	415-326-2151

VOLTMETERS, DC—DIGITAL (VOLT &
MILLIVOLTMETERS)

DCI INC OLATHE KS	913-782-5672
ADV PG 270	
IET LABS INC WESTBURY NY	516-334-5959
MODUTEC INC NORWALK CT	203-853-3636
NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
TEXMATE INC SOLANA BEACH CA	619-481-7177
ADV PGS 268,269	
Advantest Corp Tokyo Japan	03-342-7500
Analogic Corp Peabody MA	617-532-5660
Anasco Corp Wakefield MA	617-246-3300
Azonix Corp Burlington MA	617-273-5550
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Bitronics Inc Bethlehem PA	215-865-2444
B & K Precision Products Dynascan Corp Chicago IL	312-889-9087
Caltemp Instrument Inc Escondido CA	714-743-2800
Cincinnati ElectroSystems Inc Loveland OH	513-831-4347
Colorado Data Systems Inc Englewood CO	800-237-2831
Computer Measurements Co Chatsworth CA	818-341-0800
Continental Resources Inc Bedford MA	617-275-0850
Crompton Instruments Inc	
Elk Grove Village IL	312-593-1107
Data Precision Div Analogic Danvers MA	617-246-1600
Dataq Instruments Inc Akron OH	216-434-4284
Datron Instruments Inc Stuart FL	305-283-0935
DCI Inc Olathe KS	913-782-5672
DigiTec Dayton OH	513-254-6251
DNH Industries Inc Torrance CA	213-328-0750
Doric Scientific Div Emerson Elec Co San Diego CA	619-565-4415
Dragnet Technologies Inc Edison NJ	201-287-3680
E I L Instruments Inc Sparks MD	301-771-4800
Epoch Enterprises Ltd Tucson AZ	602-887-1970
Exttech Instruments & Cont Div Waltham MA	617-890-7440
Fluke Mfg Co Inc John Everett WA	206-356-5400
Genstar Rental Electronics Inc Woodland Hills CA	818-887-4000

Harneg Inc Port Washington NY	516-883-3837
Heath Co Benton Harbor MI	616-982-3200
Hewlett-Packard Palo Alto CA	415-857-8000
Hickok Electrical Instrument Co Cleveland OH	216-541-8060
Howell Instruments Inc Fort Worth TX	817-336-7411
IET Labs Inc Westbury NY	516-334-5959
Julie Research Labs Inc New York NY	212-245-2727
Keithley Instruments Inc Cleveland OH	216-248-0400
Leader Instruments Corp Hauppauge NY	516-231-6900
Leasametric Inc Foster City CA	415-574-4441
Leeds & Northrup Instruments North Wales PA	215-643-2000
LFE Corp Instruments Div Clinton MA	617-835-1000
Lincoln Instruments Inc Pasadena CA	818-798-0733
Millivac Instruments Inc Schenectady NY	518-355-8300
Modutec Inc Norwalk CT	203-853-3636
NES Inc Carpentersville IL	312-426-5900
Newport Electronics Inc Santa Ana CA	714-540-4914
Non-Linear Systems Div Kaypro Corp Solana Beach CA	619-481-3953
North American Soar Corp Cherry Hill NJ	609-488-1060
Omega Engineering Inc Stamford CT	203-359-1660
Pacer Industries Inc Chippewa Falls WI	715-723-1141
PCI Inc Santa Clara CA	408-980-0591
Pioneer Instrumentation Div Pioneer Std Cleveland OH	216-587-3600
Precision Digital Corp Watertown MA	617-924-2256
Racal-Dana Instruments Inc Irvine CA	714-859-8999
Rockwell Engineering Co Indianapolis IN	317-251-9453
Rohde & Schwarz GmbH & Co KG Muenchen W Germany	089-41290
Ross Engineering Corp Campbell CA	408-377-4621
Scientific Columbus Unit Esterline Corp Columbus OH	614-274-7160
Secore Inc Sioux Falls SD	605-339-0100
Simpson Electric Co Elgin IL	312-697-2260
Speco Div Components Specialties Inc Lindenhurst NY	516-957-8700
Sperry Instruments Inc A W Hauppauge NY	516-231-7050
Sycon-Weston Div Sycon Corp Marion OH	614-382-5771
Tektronix Inc Beaverton OR	800-547-6711
Texmate Inc Solana Beach CA	619-481-7177
Triplet Corp/A Penril Div Bluffton OH	419-358-5015
Tucker Electronics Co Garland TX	214-348-8800
Universal Enterprises Inc Portland OR	503-644-8723
Valhalla Scientific Inc San Diego CA	619-457-5576
Velonex Santa Clara CA	408-727-7370
Viz Test Equip Div Viz Mfg Co Philadelphia PA	215-844-2626

VOLTMETERS, DC—METER READOUT
(VOLT & MILLIVOLTMETERS)

IET LABS INC WESTBURY NY	516-334-5959
MODUTEC INC NORWALK CT	203-853-3636
NEWPORT ELECTRONICS INC	
SANTA ANA CA	714-540-4914
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY	914-699-9717
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
A & D Electrical Instruments Glendale NY	718-275-6516
A & M Instrument Inc Rockville Centre NY	516-678-6960
Amprobe Instrument Div Core Indus Inc Lynbrook NY	516-593-5600
Anasco Corp Wakefield MA	617-246-3300
Associated Research Inc Skokie IL	312-647-7850
Azonix Corp Burlington MA	617-273-5550
Ballantine Laboratories Inc Boonton NJ	201-335-0900
Bartlett Instrument Co Fort Madison IA	319-372-8366
Bitronics Inc Bethlehem PA	215-865-2444
B & K Precision Products Dynascan Corp Chicago IL	312-889-9087
Bowmar/ALI Inc Acton MA	617-263-8365
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IET Labs Inc Westbury NY	516-334-5959
International Instruments Div Gen Resistance Inc North Brantford CT	203-481-3450
Jewell Electrical Instruments Inc Manchester NH	603-669-6400
Julie Research Labs Inc New York NY	212-245-2727
Larson Instrument Co Inc Orangeburg NY	914-359-3800
Leader Instruments Corp Hauppauge NY	516-231-6900
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Millivac Instruments Inc Schenectady NY	518-355-8300
Modutec Inc Norwalk CT	203-853-3636
NES Inc Carpentersville IL	312-426-5900
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Phaestron Instrument & Elect Co Azusa CA	818-969-6801
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Sperry Instruments Inc A W Hauppauge NY	516-231-7050
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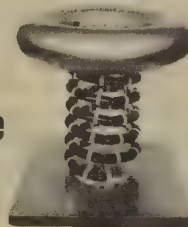


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Stock Drive Products Inc Div Designatronics New Hyde Park NY	516-328-0200
Technical Specialties Co Inc Spring Valley NY	914-425-9700
Teknall Industries Inc Rochester NY	716-232-1291
Unicorp Orange NJ	201-674-1700
Unifab Inc Hampstead NH	603-329-8205

WATER LEAK DETECTORS

See Detectors

WATER POLLUTION DETECTORS

See Pollution Detectors

WATER PURIFICATION SYSTEMS & EQUIPMENT

American Ultraviolet Co Chatham NJ	201-635-8355
Analytical Measurements Inc Chatham NJ	201-273-7500
Aqua Media Intl Sub Osmonics Inc Fremont CA	415-651-5000
Armco Middletown OH	800-231-3748
Atlantic Ultraviolet Corp Bay Shore NY	516-586-5900
Barnstead Co Industrial Prods Div Boston MA	617-327-1600
Brunkwick Technetics San Diego CA	619-455-7280
Cambridge Scientific Industries Cambridge MD	301-228-5111
Canrad-Hanovia Inc Newark NJ	201-589-4300
Corning Glass Works Science Products Corning NY	607-737-1667

Crystab Inc Hartford CT.....	203-527-3215
Culligan International Northbrook IL.....	312-498-2000
Dohrmann Div Xertex Corp Santa Clara CA.....	408-727-6000
Du Pont De Nemours & Co Inc El Chemicals & Pigments Dept Wilmington DE.....	800-441-9442
Du Pont De Nemours & Co Inc El Permasep Wilmington DE.....	302-774-2421
Fischer & Porter Co Warminster PA.....	215-674-6000
The Foxboro Co Foxboro MA.....	617-543-8750
Gilmont Instruments Inc Great Neck NY.....	516-487-0120
Interlab Inc Danbury CT.....	203-748-5624
Luf Instruments Inc Lincoln MA.....	617-259-9215
Norton Co Worcester MA.....	617-853-1000
Oakite Products Inc Berkeley Hts NJ.....	201-464-6900
Osmonics Inc Osmo Membrane Sys Div Minnetonka MN.....	612-933-2277
Pall Ultrafine Filtration Corp East Hills NY.....	516-484-5400
Phoenix Materials Corp Kittanning PA.....	412-548-1531
Wallace & Tiernan Div Pennwalt Corp Belleville NJ.....	201-759-8000

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MT KISCO NY.....	914-666-2971
Curtis Instruments Inc Mt Kisco NY.....	914-666-2971
Dowty RFL Indus Instr Div Boonton NJ.....	201-334-3100
Epoch Enterprises Ltd Tucson AZ.....	602-887-1970
North Hills Electronics Inc Glen Cove NY.....	516-671-5700
Ohio Semitronics Inc Columbus OH.....	614-486-9561
Scientific Columbus Unit Esterline Corp Columbus OH.....	614-274-7160
Yokogawa Corp Of America Shenandoah GA.....	404-253-7000

WATTMETERS—DIGITAL

BIRD ELECTRONIC CORP	
CLEVELAND (SOLON) OH.....	216-248-1200
ADV PG 529	
BOONTON ELECTRONICS CORP	
RANDOLPH NJ.....	201-584-1077
CLARKE-HESS COMMUNICATIONS RESEARCH	
NEW YORK NY.....	212-255-2940
ADV PG 529	
GENERAL MICROWAVE CORP	
AMITYVILLE NY.....	516-226-8900
HUNTER PRODUCTS INC	
BRIDGEWATER NJ.....	201-526-8440
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY.....	914-699-9717
Amprobe Instrument Div Core Indus Inc Lynbrook NY.....	516-593-5600
Azonix Corp Burlington MA.....	617-273-5550
Bird Electronic Corp Cleveland (Solon) OH.....	216-248-1200
Bitronics Inc Bethlehem PA.....	215-865-2444
Boonton Electronics Corp Randolph NJ.....	201-584-1077
Clarke-Hess Communications Research New York NY.....	212-255-2940
Coaxial Dynamics Inc Cleveland OH.....	216-267-2233
Crompton Instruments Inc Elk Grove Village IL.....	312-593-1107
Dowty RFL Indus Instr Div Boonton NJ.....	201-334-3100
Dranetz Technologies Inc Edison NJ.....	201-287-3680
E I L Instruments Inc Sparks MD.....	301-771-4800
Electrical Instrument Service Inc Mt Vernon NY.....	914-699-9717
Electronics Warehouse Inc Old Lyme CT.....	203-434-9838
Epoch Enterprises Ltd Tucson AZ.....	602-887-1970
General Microwave Corp Amityville NY.....	516-226-8900
Highland Technology Inc San Francisco CA.....	415-753-5814
Hunter Products Inc Bridgewater NJ.....	201-526-8440
Industrial Test Equipment Powertron Port Washington NY.....	516-883-1700
Intelligent Controls Inc Saco ME.....	207-283-0156
Magtrol Corp Buffalo NY.....	716-668-5555
M-C Products Scottsdale AZ.....	602-988-9577
NES Inc Carpentersville IL.....	312-426-5900
Ohio Semitronics Inc Columbus OH.....	614-486-9561
Pacer Industries Inc Chippewa Falls WI.....	715-723-1141
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
PPM Inc Cleveland OH.....	216-292-6006
Rockwell Engineering Co Indianapolis IN.....	317-251-9453
Scientific Columbus Unit Esterline Corp Columbus OH.....	614-274-7160
Sensitive Research Instruments Mt Vernon NY.....	914-699-9717
Sperry Instruments Inc A W Hauppauge NY.....	516-231-7050
Tetlex Instruments Inc Fairview Village PA.....	215-539-6050
Vahlalla Scientific Inc Fairview Village PA.....	619-457-5576
Viz Test Equip Div Viz Mfg Co Philadelphia PA.....	215-844-2626
Yokogawa Corp Of America Shenandoah GA.....	404-253-7000

WATTMETERS—METER READOUT

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ADV PG 529	
BOONTON ELECTRONICS CORP	
RANDOLPH NJ.....	201-584-1077
SENSITIVE RESEARCH INSTRUMENTS	
MT VERNON NY.....	914-699-9717
AEMC Corp Boston MA.....	617-451-0227
Alpha Industries Inc Woburn MA.....	617-273-5550
A & M Instrument Inc Rockville Centre NY.....	516-678-6960
Amprobe Instrument Div Core Indus Inc Lynbrook NY.....	516-593-5600
Azonix Corp Burlington MA.....	617-273-5550
Barker & Williamson Bristol PA.....	215-788-5581
Bird Electronic Corp Cleveland (Solon) OH.....	216-248-1200
Boonton Electronics Corp Randolph NJ.....	201-584-1077
General Microwave Corp Amityville NY.....	516-226-8900
Heath Co Benton Harbor MI.....	616-982-3200
Leasametric Inc Foster City CA.....	415-574-4441
Racal-Dana Instruments Inc Irvine CA.....	714-859-8999
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
Struthers Electronics Corp Farmingdale NY.....	516-420-9000
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Feedback Inc Berkeley Heights NJ.....	201-464-5181
Genstar Rental Electronics Inc Woodland Hills CA.....	818-887-4000
Greibach Instruments Mt Vernon NY.....	914-699-9717
Heath Co Benton Harbor MI.....	616-982-3200
Intelligent Controls Inc Saco ME.....	207-283-0156
Larson Instrument Co Inc Orangeburg NY.....	914-359-3800
Martindale Electric Co Cleveland OH.....	216-521-8567
Ohio Semitronics Inc Columbus OH.....	614-486-9561
Pioneer Instrumentation Div Pioneer Std Cleveland OH.....	216-587-3600
Racal-Dana Instruments Inc Irvine CA.....	714-859-8999
Rochester Instrument Systems Inc Rochester NY.....	716-263-7700
Rockwell Engineering Co Indianapolis IN.....	317-251-9453
Sensitive Research Instruments Mt Vernon NY.....	914-699-9717
Simpson Electric Co Elgin IL.....	312-697-2260
Sperry Instruments Inc A W Hauppauge NY.....	516-231-7050
States Co Div Multi-Amp Corp Dallas TX.....	214-333-3201
Tetlex Instruments Inc Fairview Village PA.....	215-539-6050
Triplett Corp/A Penril Div Bluffton OH.....	219-358-5015
Tucker Electronics Co Garland TX.....	214-348-8800
Yokogawa Corp Of America Shenandoah GA.....	404-253-7000

WATTMETERS—MICROWAVE

See Microwave Calorimeters

See Also Microwave Bolometers

WATTMETERS—RF

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Boonton Electronics Corp Randolph NJ.....	201-584-1077
General Microwave Corp Amityville NY.....	516-226-8900
Heath Co Benton Harbor MI.....	616-982-3200
Leasametric Inc Foster City CA.....	415-574-4441
Racal-Dana Instruments Inc Irvine CA.....	714-859-8999
Rohde & Schwarz GmbH & Co KG Muenchen W Germany.....	089-41290
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WAVE ANALYZERS

See Analyzers

WAVEFORM GENERATORS

See Generators—Function; Generators—Signal

WAVEGUIDE

ASSEMBLIES—ELECTROFORMED

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Antennas for Communications Inc Ocala FL	904-687-4121
Arra Inc Bay Shore NY	516-231-8400
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Coleman Microwave Co Edinburg VA	703-984-8848
Diamond Antenna & Microwave Corp	
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M/A-COM Microwave Circuits Inc	
Burlington MA	617-272-3000
Maury Microwave Corp Cucamonga CA	714-987-4715
Omega Laboratories Inc Rowley MA	617-948-7757
Premier Microwave Corp Port Chester NY	914-939-8900
Servometer Corp Cedar Grove NJ	201-785-4630
Struthers Electronics Corp Farmingdale NY	516-420-9000
Technicraft Div Tech Systems Corp	
Thomaston CT	203-283-5801
Waveline Inc West Caldwell NJ	201-226-9100

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AEG Corporation Somerville NJ	201-722-9800
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Aluminum Design Corp Brookfield IL	312-387-3100
Andrew Corp Orland Park IL	312-349-3300
Antennas for Communications Inc Ocala FL	904-687-4121
Arra Inc Bay Shore NY	516-231-8400
Astrolab Inc Warren NJ	201-560-3800
Cablewave Sys Div Celwave Sys Inc	
North Haven CT	203-239-3311
Coleman Microwave Co Edinburg VA	703-984-8848
Continental Microwave & Tool Co Inc	
Bradford MA	617-373-2390
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Gabriel Electronics Inc Scarborough ME	207-883-5161
Galileo Electro-Optics Corp Sturbridge MA	617-347-9191
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
Microwave Development Labs Inc Natick MA	617-655-0060
Microwave Engineering Corp	
North Andover MA	617-685-2776
Omega Laboratories Inc Rowley MA	617-948-7757
Reeve Electronics Div Melissa & Murray	
Chicago IL	312-670-0150
Servometer Corp Cedar Grove NJ	201-785-4630
Technicraft Div Tech Systems Corp	
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Waveline Inc West Caldwell NJ	201-226-9100

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Andrew Corp Orland Park IL	312-349-3300
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Arra Inc Bay Shore NY	516-231-8400
Astrolab Inc Warren NJ	201-560-3800
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
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Continental Microwave & Tool Co Inc	
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Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
Maury Microwave Corp Cucamonga CA	714-987-4715
Microwave Development Labs Inc Natick MA	617-655-0060
Microwave Engineering Corp	
North Andover MA	617-685-2776
The Narda Microwave Corp Hauppauge NY	516-231-1700
Omega Laboratories Inc Rowley MA	617-948-7757
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Servometer Corp Cedar Grove NJ	201-785-4630
Struthers Electronics Corp Farmingdale NY	516-420-9000
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Arra Inc Bay Shore NY	516-231-8400
Astrolab Inc Warren NJ	201-560-3800
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Coleman Microwave Co Edinburg VA	703-984-8848
Continental Microwave & Tool Co Inc	
Bradford MA	617-373-2390
Decibel Products Inc Dallas TX	214-631-0310
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Dielectric Commun Unit General Signal	
Raymond ME	207-655-4555
Eastern Microwave Corp Woburn MA	617-935-8600
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Gabriel Electronics Inc Scarborough ME	207-883-5161
Galileo Electro-Optics Corp Sturbridge MA	617-347-9191
Logus Mfg Corp Deer Park NY	516-242-5970
Maury Microwave Corp Cucamonga CA	714-987-4715
Micro-Coax Components Inc Collegeville PA	215-489-3700
Microwave Development Labs Inc Natick MA	617-655-0060
Microwave Engineering Corp	
North Andover MA	617-685-2776
The Narda Microwave Corp Hauppauge NY	516-231-1700
Omega Laboratories Inc Rowley MA	617-948-7757
Premier Microwave Corp Port Chester NY	914-939-8900
Reeve Electronics Div Melissa & Murray	
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Struthers Electronics Corp Farmingdale NY	516-420-9000
Technicraft Div Tech Systems Corp	
Thomaston CT	203-283-5801
Victor Microwave Inc Wakefield MA	617-245-4472
Waveline Inc West Caldwell NJ	201-226-9100

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Coleman Microwave Co Edinburg VA	703-984-8848
Decibel Products Inc Dallas TX	214-631-0310
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Galileo Electro-Optics Corp Sturbridge MA	617-347-9191
Premier Microwave Corp Port Chester NY	914-939-8900
Reeve Electronics Div Melissa & Murray	
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Struthers Electronics Corp Farmingdale NY	516-420-9000
Victor Microwave Inc Wakefield MA	617-245-4472

WAVEGUIDE CIRCUITS & DEVICES

See Microwave Listings; Waveguide

Assemblies

See Also Couplers—Directional

Delay Lines

Detectors—Standing Wave

Rotary Joints

Switches

Terminations

Transitions

WAVEGUIDE DISSIPATIVE STRIPS

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Premier Microwave Corp Port Chester NY	914-939-8900
Victor Microwave Inc Wakefield MA	617-245-4472

WAVEGUIDE FILTERS

See Filters

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RADIO-RESEARCH INSTRUMENT CO INC	
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Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
Aluminum Design Corp Brookfield IL	312-387-3100
Andrew Corp Orland Park IL	312-349-3300
Antennas for Communications Inc Ocala FL	904-687-4121
Arra Inc Bay Shore NY	516-231-8400
Cablewave Sys Div Celwave Sys Inc	
North Haven CT	203-239-3311
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Coleman Microwave Co Edinburg VA	703-984-8848
Continental Microwave & Tool Co Inc	
Bradford MA	617-373-2390
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500

Dielectric Commun Unit General Signal	
Raymond ME	207-655-4555
Eastern Microwave Corp Woburn MA	617-935-8600
Epsilon-Lambda Electronics Corp Geneva IL	312-232-9611
Gabriel Electronics Inc Scarborough ME	207-883-5161
Gamma-F Corp Torrance CA	213-539-6700
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA	617-272-3000
Maury Microwave Corp Cucamonga CA	714-987-4715
Microwave Development Labs Inc Natick MA	617-655-0060
Microwave Engineering Corp	
North Andover MA	617-685-2776
The Narda Microwave Corp Hauppauge NY	516-231-1700
Omega Laboratories Inc Rowley MA	617-948-7757
Premier Microwave Corp Port Chester NY	914-939-8900
Radio-Research Instrument Co Inc	
Danbury CT	203-792-6666
Struthers Electronics Corp Farmingdale NY	516-420-9000
Technicraft Div Tech Systems Corp	
Thomaston CT	203-283-5801
Varian Electron Device Group Palo Alto CA	415-493-4001
Victor Microwave Inc Wakefield MA	617-245-4472
Waveline Inc West Caldwell NJ	201-226-9100

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RADIO-RESEARCH INSTRUMENT CO INC	
DANBURY CT	203-792-6666
AEG Corporation Somerville NJ	201-722-9800
Airtron Div Litton Systems Inc	
Morris Plains NJ	201-539-5500
Alpha Industries Inc Woburn MA	617-935-5150
Aluminum Design Corp Brookfield IL	312-387-3100
Andrew Corp Orland Park IL	312-349-3300
Cablewave Sys Div Celwave Sys Inc	
North Haven CT	203-239-3311
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Chomerics Inc Woburn MA	617-935-4855
Coleman Microwave Co Edinburg VA	703-984-8848
Continental Microwave & Tool Co Inc	
Bradford MA	617-373-2390
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Dielectric Commun Unit General Signal	
Raymond ME	207-655-4555
Eastern Microwave Corp Woburn MA	617-935-8600
Kings Electronics Co Inc Tuckahee NY	914-793-5000
M/A-COM Microwave Components Inc	
Burlington MA	617-272-3000
M/A-COM Millimeter Products Inc	
Burlington MA	617-272-3000
Maury Microwave Corp Cucamonga CA	714-987-4715
Microwave Development Labs Inc Natick MA	617-655-0060
Microwave Engineering Corp	
North Andover MA	617-685-2776
Omega Laboratories Inc Rowley MA	617-948-7757
Premier Microwave Corp Port Chester NY	914-939-8900
Radio-Research Instrument Co Inc	
Danbury CT	203-792-6666
Struthers Electronics Corp Farmingdale NY	516-420-9000
Technicraft Div Tech Systems Corp	
Thomaston CT	203-283-5801
Vernay Lab Inc Yellow Springs OH	513-767-7267

WAVEGUIDE—OPTICAL

See Optical Waveguide; Fiber Optics

WAVEGUIDE PRESSURIZATION SYSTEMS

See Pressurization Systems

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Airtron Div Litton Systems Inc	
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Andrew Corp Orland Park IL	312-349-3300
Cardwell Condenser Corp Lindenhurst NY	516-957-7200
Coleman Microwave Co Edinburg VA	703-984-8848
Continental Microwave & Tool Co Inc	
Bradford MA	617-373-2390
Diamond Antenna & Microwave Corp	
Winchester MA	617-729-5500
Gabriel Electronics Inc Scarborough ME	207-883-5161
Micro-Coax Components Inc Collegeville PA	215-489-3700
Microwave Development Labs Inc Natick MA	617-655-0060
Microwave Engineering Corp	
North Andover MA	617-685-2776
Omega Laboratories Inc Rowley MA	617-948-7757
Precision Tube Co Inc North Wales PA	215-699-5801
Premier Microwave Corp Port Chester NY	914-939-8900
Radio-Research Instrument Co Inc	
Danbury CT	203-792-6666
Struthers Electronics Corp Farmingdale NY	516-420-9000
Technicraft Div Tech Systems Corp	
Thomaston CT	203-283-5801
Wall Co A T Warwick RI	401-739-0740

WAVEMETERS

See Meters

WEAPON DETECTORS

See Security Systems

WELDED WIRING MATRIXES

See Wiring Matrixes

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Air Products & Chemicals Inc Allentown PA.....	215-481-4911
ASI Providence RI.....	401-331-9154
Harris Calorific Div Emerson Elec Co.....	
Elyria OH.....	216-961-5700
Merrick Engineering Inc Nashville TN.....	615-259-9300
Ridge Tool Co Sub Emerson Elec Co.....	
Elyria OH.....	216-323-5581
Sciaky Bros Inc Chicago IL.....	312-594-3800
Silver & Assoc G H Newtonville MA.....	617-965-1636
Taylor-Winfield Corp Warren OH.....	216-399-8861
Thomson General Inc Woburn MA.....	617-933-1010
Unimation Inc Danbury CT.....	203-744-1800

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Leybold-Heraeus Technologies Inc	
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Sciaky Bros Inc Chicago IL.....	312-594-3800
Technical Materials Inc Lincoln RI.....	401-333-1700
Universal Volttronics Corp Mount Kisco NY.....	914-241-1300

WELDERS—LASER BEAM

Coherent General Sturbridge MA.....	617-347-2681
Coherent Inc Palo Alto CA.....	415-493-2111
General Laser Inc Scottsdale AZ.....	602-991-0674
Quantrad Corp Torrance CA.....	213-538-9800
Quantronix Corp Smithtown NY.....	516-273-6900
Sciaky Bros Inc Chicago IL.....	312-594-3800
Spectra-Physics Inc Mountain View CA.....	415-961-2550
U S Laser Corp Wyckoff NJ.....	201-848-9200
Universal Volttronics Corp Mount Kisco NY.....	914-241-1300

WELDERS—POWER SUPPLY

See Power Supplies, AC to DC—Welding

WELDERS—RESISTANCE

Associate General Labs Inc Brookfield IL.....	312-485-1135
Black & Webster Inc Waltham MA.....	617-890-9100
Electronic Tool Co Inc Pleasantville NY.....	914-769-8070
Falstrom Co Passaic NJ.....	201-777-0013
Hughes Aircraft Co Assembly & Test Prods Carlsbad CA.....	619-931-3622
Hughes Aircraft Co Ind Prods Div Carlsbad CA.....	619-931-3000
Kahle Engineering Co Union City NJ.....	201-867-6500
Kinematix Inc Concord NH.....	603-224-6583
Sciaky Bros Inc Chicago IL.....	312-594-3800
Silver & Assoc G H Newtonville MA.....	617-965-1636
Solid State Equipment Corp Fort Washington PA.....	215-643-7900
Taylor-Winfield Corp Warren OH.....	216-399-8861
Thermatool Corp Stamford CT.....	203-357-1555
Thomson General Inc Woburn MA.....	617-933-1010
Unimation Inc Danbury CT.....	203-744-1800
Unitek Corp Indus Equip Oper Monrovia CA.....	818-574-7800
Weltek Int'l Inc South Bend IN.....	219-232-5400

WELDERS—SPOT

Air Products & Chemicals Inc Allentown PA.....	215-481-4911
Black & Webster Inc Waltham MA.....	617-890-9100
Falstrom Co Passaic NJ.....	201-777-0013
Hughes Aircraft Co Assembly & Test Prods Carlsbad CA.....	619-931-3622
Kahle Engineering Co Union City NJ.....	201-867-6500
Roper Whitney Co Rockford IL.....	815-962-3011
Sciaky Bros Inc Chicago IL.....	312-594-3800
Silver & Assoc G H Newtonville MA.....	617-965-1636
Taylor-Winfield Corp Warren OH.....	216-399-8861
Thomson General Inc Woburn MA.....	617-933-1010
Unimation Inc Danbury CT.....	203-744-1800
U S Laser Corp Wyckoff NJ.....	201-848-9200
Unitek Corp Indus Equip Oper Monrovia CA.....	818-574-7800
Weltek Int'l Inc South Bend IN.....	219-232-5400

WELDERS—SPOT, ALUMINUM

Air Products & Chemicals Inc Allentown PA.....	215-481-4911
Falstrom Co Passaic NJ.....	201-777-0013
Hughes Aircraft Co Assembly & Test Prods Carlsbad CA.....	619-931-3622
Kahle Engineering Co Union City NJ.....	201-867-6500
Sciaky Bros Inc Chicago IL.....	312-594-3800
Taylor-Winfield Corp Warren OH.....	216-399-8861
Thomson General Inc Woburn MA.....	617-933-1010
Unimation Inc Danbury CT.....	203-744-1800
Unitek Corp Indus Equip Oper Monrovia CA.....	818-574-7800
Weltek Int'l Inc South Bend IN.....	219-232-5400

WELDERS—SPOT, FINE WIRE

Air Products & Chemicals Inc Allentown PA.....	215-481-4911
Black & Webster Inc Waltham MA.....	617-890-9100
Emporium Specialties Co Inc Austin PA.....	814-647-8661
Hughes Aircraft Co Assembly & Test Prods Carlsbad CA.....	619-931-3622
Hughes Aircraft Co Ind Prods Div Carlsbad CA.....	619-931-3000
Kahle Engineering Co Union City NJ.....	201-867-6500
Moore Systems-Stitchweld Corp Chatsworth CA.....	818-882-7700
Sciaky Bros Inc Chicago IL.....	312-594-3800
Taylor-Winfield Corp Warren OH.....	216-399-8861
Thomson General Inc Woburn MA.....	617-933-1010
Unimation Inc Danbury CT.....	203-744-1800
Unitek Corp Indus Equip Oper Monrovia CA.....	818-574-7800
Weltek Int'l Inc South Bend IN.....	219-232-5400

WELDERS—THIN FILM

Hughes Aircraft Co Assembly & Test Prods Carlsbad CA.....	619-931-3622
Moore Systems-Stitchweld Corp Chatsworth CA.....	818-882-7700
PHI Conrac Machine Tool Westminster CA.....	714-894-4711
Sciaky Bros Inc Chicago IL.....	312-594-3800
Sonics & Materials Inc Danbury CT.....	203-744-4400
Ultra Sonic Seal Co Broomfield PA.....	312-543-7760
U S Laser Corp Wyckoff NJ.....	201-848-9200
Unitek Corp Indus Equip Oper Monrovia CA.....	818-574-7800
Weltek Int'l Inc South Bend IN.....	219-232-5400

WELDERS—ULTRASONIC

See Ultrasonic Equipment

WELDING CONTROLS

See Controls; Timers

WELDING MACHINES—AUTOMATIC

See Machines

WELDING SERVICES—CIRCUIT

See Productions Services—Circuit Assembly

WHEATSTONE BRIDGES

See Bridges—Resistance

WHEELS—ABRASIVE

See Abrasives

WHEELS—DIAMOND

See Diamond Wheels

WHIPS

See Antennas, Radio Communications—Mobile

WHITE ROOM CHAMBERS

See Chambers, Environmental—White Room

WHITE ROOMS—PRODUCTION

See Clean Rooms

WINDERS—PAPER TAPE

See Paper Tape Mechanisms

WINDING MACHINES—COIL

See Machines—Coil Winding

WINDINGS—COIL & TRANSFORMER

See Coils—Windings Only

WINDOWS

See Dial Windows; Infrared Optical Components;
Microwave Windows; Windows—RF Suppression

WINDOWS—RF SUPPRESSION (GLASS

WITH SHIELDING)

LIBERTY MIRROR DIV/LOF GLASS BRACKENRIDGE PA.....	412-224-1800
ADV PG 297	
TECKNIT CRANFORD NJ.....	201-272-5500

Chemical Fabrics Corp Merrimack NH.....	603-424-9000
Chomerics Inc Woburn MA.....	617-935-4850
Corning Glass Works Tech Prods Div Corning NY.....	607-974-9000
Liberty Mirror Div/LOF Glass Brackenridge PA.....	412-224-1800
Metavac Inc Flushing NY.....	718-445-0400
Optical Coating Lab Inc Santa Rosa CA.....	707-545-6440
Panelgraphic Corp West Caldwell NJ.....	201-227-1500
Practical Products Co Cincinnati OH.....	513-891-1471
Premium Microwave Corp Port Chester NY.....	914-939-8900
Spectrum Control Inc Erie PA.....	414-455-0966
Tecknit Cranford NJ.....	201-272-5500
Wescorp Div DAL Indus Inc Mt View CA.....	415-969-7717

WIRE & CABLE TIES

CONCORD ELECTRONICS CORP NEW YORK NY.....	212-777-6571
KING WIRE & CABLE CORP JAMAICA NY.....	718-657-4422
PEERLESS RADIO CORP LYNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
Accessories for Electronics Inc Baldwin NY.....	516-546-1751
Allied Systems Corp Greensboro NC.....	919-299-2294
Al-States Inc Chicago IL.....	312-728-0525
Alpha Wire Corp Elizabeth NJ.....	201-925-8000
Amran Inc Stamford CT.....	203-322-1913
AMP Products Corp Southeastern NY.....	215-647-1000
Amrad Div Transcon Mfg Co Ft Smith AR.....	501-452-3987
Associated Sales & Bag Co Milwaukee WI.....	414-272-2380
Autosplice Inc Woodside NY.....	718-429-0500
Blackburn Div FL Industries Sycamore IL.....	815-895-6501
Brady Co W H Industrial Prods Div Milwaukee WI.....	414-351-6630
Bundy Corp Norwalk CT.....	203-838-4444
Concord Electronics Corp New York NY.....	212-777-6571
DEK Inc St Charles IL.....	312-377-2575
Dennison Mfg Co Fastener Div Framingham MA.....	617-879-0511
Eaton Corp Engineered Fasteners Div Cleveland OH.....	216-523-5361
Electrovert Inc Indus Elec & Elctn Prods Elmsford NY.....	914-592-7322
Fibre Materials Corp Plainville NY.....	516-349-1660
GC Electronics Div Household Intl Rockford IL.....	815-968-9661
Helenor Industries Inc Mt Vernon NY.....	914-667-3535
Heyco Molded Products Kenilworth NJ.....	201-245-0033
Hoffman Industrial Products Farmingdale NY.....	516-293-5244
Ideal Industries Inc Sycamore IL.....	815-895-5181
Jilson Corp, The Hackensack NJ.....	201-488-4646
King Wire & Cable Corp Jamaica NY.....	718-657-4422
Lynx Inc Leominster MA.....	617-537-6090
Mac Bearing & Electronics Woburn MA.....	617-933-2110
Manger Electric Co Inc Stamford CT.....	203-348-7761
National Band & Tag Co Newport KY.....	606-261-2035
Newman Corp MM Marblehead MA.....	617-631-7100
NTE Electronics Inc Bloomfield NJ.....	201-748-5089
Oneida Electronic Mfg Inc Meadville PA.....	814-336-2125
Panduit Corp Tinley Park IL.....	312-532-1800
Park Distributors Inc Bridgeport CT.....	203-366-7200
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Richco Plastic Co Chicago IL.....	312-539-4060
Ross Co Milton Southampton PA.....	215-355-0200
Sager Hingham MA.....	617-749-6700
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Sjoberg & Son Inc Cranston RI.....	401-461-8220
SOS Lighting Devices Div MEMCO Philadelphia PA.....	215-423-7077
Storm Products Co Inglewood CA.....	213-776-8141
Thomas & Betts Electrical Group Raritan NJ.....	201-685-1600
Tyton Corp Milwaukee WI.....	414-355-1130
Vaco Products Co Northbrook IL.....	312-564-3300
Vertex Electronics Inc Farmingdale NY.....	516-293-9880
Wes-Garde Components Group Inc Hartford CT.....	203-525-6907
Workman Electronic Products Inc Sarasota FL.....	800-237-6666
Zippertubing Co Los Angeles CA.....	213-321-3901

WIRE—AIRFRAME

FL Surprenant Wire & Cable Div Clinton MA.....	617-368-1401
GSI Corp Timonium MD.....	301-252-1768
Judd Wire Div High Voltage Engineering Turners Falls MA.....	413-863-4357
Judd Wire Div High Voltage Engineering San Marcos CA.....	619-744-7720

WIRE—ANTENNA

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP FRANKLIN PARK IL.....	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY.....	718-657-4422
SAGER HINGHAM MA.....	617-749-6700
ADV PGS Green Pages/Footstrips SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
Alpha Wire Corp Elizabeth NJ.....	201-925-8000
American Electric Cable Co Holyoke MA.....	413-539-9893
American Insulated Wire Corp Pawtucket RI.....	401-726-0700
Belden Electronic Wire & Cable Richmond IN.....	317-983-5200
Birnbach Co Inc Farmingdale NY.....	516-420-9800
Carol Cable Co Inc Elctn Cables Div Pawtucket RI.....	401-724-9605
Carol Cable Co West Rancho Dominguez CA.....	213-537-8050
Carolina Steel & Wire Corp Lexington SC.....	803-359-5501
Chester Cable Corp Chester NY.....	914-469-2141
Consolidated Electronic Wire & Cable Corp Franklin Park IL.....	312-455-8830
Copperweld Bimetallics Group Pittsburgh PA.....	412-777-3000

Dayton Granger Inc Ft Lauderdale FL	305-463-3451
GC Electronics Div Household Int'l Rockford IL	815-968-9661
Helenor Industries Inc Mt Vernon NY	914-667-3535
King Wire & Cable Corp Jamaica NY	718-657-4422
New England Electric Wire Corp Lisbon NH	603-838-6629
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, BARE—ALUMINUM

KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Atomergic Chemetals Corp Plainview NY	516-349-8800
Autosplice Inc Woodside NY	718-429-0500
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Cominco Electronic Materials Inc Spokane WA	509-924-2200
Cooper Wire Div Stern Metals Inc Mt Vernon NY	914-668-5597
General Diode Corp Framingham MA	617-879-0880
Heraeus-Volkert Inc Queens Village NY	718-464-8400
International Wire Prods Co Div Carlisle Wyckoff NJ	201-891-5800
King Wire & Cable Corp Jamaica NY	718-657-4422
Liberty Copper & Wire Div MagneTek Inc Downers Grove IL	312-969-7660
Magnet Wire Inc Corona NY	718-651-0900
Materials Research Corp Orangeburg NY	914-359-4200
Molecu-Wire Corp Farmingdale NJ	201-938-9473
Montgomery Co Windsor Locks CT	203-623-3336
MWS Wire Industries Westlake Village CA	818-991-8553
Peerless Radio Corp Lynbrook NY	516-593-2121
Permaluster Inc Burbank CA	213-849-4543
Phelps Dodge Magnet Wire Co Fort Wayne IN	219-456-4444
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Rea Magnet Wire Co Inc Fort Wayne IN	219-424-4252
Sager Hingham MA	617-749-6700
Semiconductor Packaging Materials Co Mamaroneck NY	914-698-5353
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp New York NY	212-966-4330
York Wire Co Clifton NJ	201-472-8200

WIRE, BARE—BERYLLIUM COPPER

BRUSH WELLMAN INC CLEVELAND OH	216-486-4200
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Atomergic Chemetals Corp Plainview NY	516-349-8800
Brush Wellman Inc Cleveland OH	216-486-4200
Cabot Corp Beryllium Prods Busn Unit Reading PA	800-523-8268
Dayton Granger Inc Ft Lauderdale FL	305-463-3451
Helenor Industries Inc Mt Vernon NY	914-667-3535
International Wire Prods Co Div Carlisle Wyckoff NJ	201-891-5800
Ken-Tron Mfg Inc Owensboro KY	502-684-0431
King Wire & Cable Corp Jamaica NY	718-657-4422
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553
Peerless Radio Corp Lynbrook NY	516-593-2121
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp New York NY	212-966-4330

WIRE, BARE—COLUMBIUM

See Wire, Bare—Niobium

WIRE, BARE—COPPER

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
MANHATTAN ELECTRIC CABLE CORP RYE NY	609-455-8530
ADV PG 54	
OMEGA ENGINEERING INC STAMFORD CT	203-359-1660
ADV PG Cateford	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Alpha Wire Corp Elizabeth NJ	201-925-8000
American Insulated Wire Corp Pawtucket RI	401-726-0700
Autosplice Inc Woodside NY	718-429-0500
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Birnbach Co Inc Farmingdale NY	516-420-9800
Brand-Rex/Nonotuck Div South Hadley MA	413-534-0271
Brintec Corp Brand-Rex Cable Sys Div Willimantic CT	203-456-8000
Carol Cable Co Inc Electn Cables Div Pawtucket RI	401-724-9605
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Chester Cable Corp Chester NY	914-469-2141
Cominco Electronic Materials Inc Spokane WA	509-924-2200
Consolidated Electronic Wire & Cable Corp Franklin Park IL	312-455-8830

Cooner Wire Co Chatsworth CA	818-882-8311
Copperweld Bimetallics Group Pittsburgh PA	412-777-3000
Dayton Granger Inc Ft Lauderdale FL	305-463-3451
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
General Diode Corp Framingham MA	617-879-0880
Helenor Industries Inc Mt Vernon NY	914-667-3535
International Wire Prods Co Div Carlisle Wyckoff NJ	201-891-5800
Ken-Tron Mfg Inc Owensboro KY	502-684-0431
King Wire & Cable Corp Jamaica NY	718-657-4422
Liberty Copper & Wire Div MagneTek Inc Downers Grove IL	312-969-7660
Lynn Electronics Corp Feasterville PA	215-355-8200
Magnet Wire Inc Corona NY	718-651-0900
Manhattan Electric Cable Corp Rye NY	609-455-8530
Materials Research Corp Orangeburg NY	914-359-4200
Molecu-Wire Corp Farmingdale NJ	201-938-9473
Montgomery Co Windsor Locks CT	203-623-3336
MWS Wire Industries Westlake Village CA	818-991-8553
New England Electric Wire Corp Lisbon NH	603-838-6629
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Omega Engineering Inc Stamford CT	203-359-1660
Peerless Radio Corp Lynbrook NY	516-593-2121
Permaluster Inc Burbank CA	213-849-4543
Phelps Dodge Magnet Wire Co Fort Wayne IN	219-456-4444
Piher International Corp Mt Prospect IL	312-640-8300
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Rea Magnet Wire Co Inc Fort Wayne IN	219-424-4252
Sager Hingham MA	617-749-6700
Saxton Wire & Cable Congers NY	914-268-6846
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sittler Corp Chicago IL	312-733-4616
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp New York NY	212-966-4330
Vertex Electronics Inc Farmingdale NY	516-293-9880
Viking Wire Co Inc Danbury CT	203-744-4600
Wilkinson Co Westlake Village CA	818-889-0050

WIRE, BARE—COPPER, GOLD PLATED

KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA	617-226-1200
AFN Corp Somerset NJ	201-560-1240
Brintec Corp Brand-Rex Cable Sys Div Willimantic CT	203-456-8000
Burton Plating Co Los Angeles CA	213-776-4090
Engelhard Industries Iselin NJ	201-321-5900
Garfield Industries Philadelphia PA	215-743-4653
Handy & Harman Electronic Mats Corp North Attleboro MA	617-695-1401
International Wire Prods Co Div Carlisle Wyckoff NJ	201-891-5800
Ken-Tron Mfg Inc Owensboro KY	502-684-0431
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553
New England Electric Wire Corp Lisbon NH	603-838-6629
Peerless Radio Corp Lynbrook NY	516-593-2121
Precision Metallurgical Corp A Leach & Garner Co Attleboro MA	617-226-1200
Semiconductor Packaging Materials Co Mamaroneck NY	914-698-5353
Stamet Mfg Corp Fairfield NJ	201-227-2432

WIRE, BARE—COPPER, NICKEL CLAD

KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div Willimantic CT	203-456-8000
Engelhard Industries Iselin NJ	201-321-5900
International Wire Prods Co Div Carlisle Wyckoff NJ	201-891-5800
Ken-Tron Mfg Inc Owensboro KY	502-684-0431
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553
National-Standard Co Niles MI	616-683-8100
New England Electric Wire Corp Lisbon NH	603-838-6629
Peerless Radio Corp Lynbrook NY	516-593-2121
Permaluster Inc Burbank CA	213-849-4543
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Stamet Mfg Corp Fairfield NJ	201-227-2432

WIRE, BARE—COPPER, SILVER PLATED

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
AFN Corp Somerset NJ	201-560-1240
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div Willimantic CT	203-456-8000
Burton Plating Co Los Angeles CA	213-776-4090
Consolidated Electronic Wire & Cable Corp Franklin Park IL	312-455-8830
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000

Engelhard Industries Iselin NJ	201-321-5900
International Wire Prods Co Div Carlisle Wyckoff NJ	201-891-5800
Ken-Tron Mfg Inc Owensboro KY	502-684-0431
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
Montgomery Co Windsor Locks CT	203-623-3336
MWS Wire Industries Westlake Village CA	818-991-8553
New England Electric Wire Corp Lisbon NH	603-838-6629
Peerless Radio Corp Lynbrook NY	516-593-2121
Permaluster Inc Burbank CA	213-849-4543
Stamet Mfg Corp Fairfield NJ	201-227-2432

WIRE, BARE—COPPER, TINNED

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
MANHATTAN ELECTRIC CABLE CORP RYE NY	609-455-8530
ADV PG 54	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
AFN Corp Somerset NJ	201-560-1240
Alpha Wire Corp Elizabeth NJ	201-925-8000
American Insulated Wire Corp Pawtucket RI	401-726-0700
Autosplice Inc Woodside NY	718-429-0500
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Birnbach Co Inc Farmingdale NY	516-420-9800
Brand-Rex/Nonotuck Div South Hadley MA	413-534-0271
Bridgeport Insulated Wire Co Bridgeport CT	203-333-3191
Brintec Corp Brand-Rex Cable Sys Div Willimantic CT	203-456-8000
Carol Cable Co Inc Electn Cables Div Pawtucket RI	401-724-9605
Chester Cable Corp Chester NY	914-469-2141
Consolidated Electronic Wire & Cable Corp Franklin Park IL	312-455-8830
Copperweld Bimetallics Group Pittsburgh PA	412-777-3000
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Electrowave Inc Worcester MA	617-752-8932
Engelhard Industries Iselin NJ	201-321-5900
International Wire Prods Co Div Carlisle Wyckoff NJ	201-891-5800
King Wire & Cable Corp Jamaica NY	718-657-4422
Liberty Copper & Wire Div MagneTek Inc Downers Grove IL	312-969-7660
Lynn Electronics Corp Feasterville PA	215-355-8200
Magnet Wire Inc Corona NY	718-651-0900
Manhattan Electric Cable Corp Rye NY	609-455-8530
Molecu-Wire Corp Farmingdale NJ	201-938-9473
Montgomery Co Windsor Locks CT	203-623-3336
MWS Wire Industries Westlake Village CA	818-991-8553
National Wire & Cable Corp Los Angeles CA	213-225-5611
New England Electric Wire Corp Lisbon NH	603-838-6629
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Peerless Radio Corp Lynbrook NY	516-593-2121
Permaluster Inc Burbank CA	213-849-4543
Piher International Corp Mt Prospect IL	312-640-8300
Rainbow Wire Corp Madison NJ	201-887-2550
Rea Magnet Wire Co Inc Fort Wayne IN	219-424-4252
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sittler Corp Chicago IL	312-733-4616
Stamet Mfg Corp Fairfield NJ	201-227-2432
Storm Products Co Ingewald NY	213-776-8141
Vertex Electronics Inc Farmingdale NY	516-293-9880
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, BARE—FINE WIRE SPECIALTIES
(INCL. GRID WIRE)

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP FRANKLIN PARK IL	312-455-8830
ADV PG 55	
GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT CLEVELAND OH	216-266-2451
ADV PG 533	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAES GETTERS/USA INC COLORADO SPRINGS CO	303-576-3200
ADV PG 88	
Atomergic Chemetals Corp Plainview NY	516-349-8800
Carpenter Technology Corp Reading PA	215-371-2000
Cominco Electronic Materials Inc Spokane WA	509-924-2200
Consolidated Electronic Wire & Cable Corp Franklin Park IL	312-455-8830
Cooper Wire Div Stern Metals Inc Mt Vernon NY	914-668-5597
Copperweld Bimetallics Group Pittsburgh PA	412-777-3000
Engelhard Industries Iselin NJ	201-321-5900
Fusite Div Emerson Electric Co Cincinnati OH	513-731-2920
Gen Elec Co Glass & Metallurgical Prods Dept Cleveland OH	216-266-2451
GTE Precision Materials Danvers MA	617-777-1900
Heraeus-Volkert Inc Queens Village NY	718-464-8400
International Wire Prods Co Div Carlisle Wyckoff NJ	201-891-5800
Ken-Tron Mfg Inc Owensboro KY	502-684-0431
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Materials Research Corp Orangeburg NY	914-359-4200
Molecu-Wire Corp Farmingdale NJ	201-938-9473
Montgomery Co Windsor Locks CT	203-623-3336
MWS Wire Industries Westlake Village CA	818-991-8553
National-Standard Co Niles MI	616-683-8100
Peerless Radio Corp Lynbrook NY	516-593-2121

Permaluster Inc Burbank CA	213-849-4543
Philips Elmet Corp Lewiston ME	207-784-3591
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Rea Magnet Wire Co Inc Fort Wayne IN	219-424-4252
SAES Getters/USA Inc Colorado Springs CO	303-576-3200
Semiconductor Packaging Materials Co	
Mamaroneck NY	914-698-5353
Stamet Mfg Corp Fairfield NJ	201-227-2432
Titchener & Co E H Binghamton NY	607-772-1161
United Mineral & Chemical Corp	
New York NY	212-966-4330
Viking Wire Co Inc Danbury CT	203-744-4600
Wire Cloth Manufacturers Inc Radolph NJ	201-328-1000
York Wire Co Clifton NJ	201-472-8200

WIRE, BARE—GLASS SEALING

GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT	
CLEVELAND OH	216-266-2451
ADV PG 533	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Active Alloys Inc Elizabeth NJ	201-351-9500
Carpenter Technology Corp Reading PA	215-371-2000
Fusite Div Emerson Electric Co Cincinnati OH	513-731-2020
Gen Elec Co Glass & Metallurgical Prods Dept	
Cleveland OH	216-266-2451
Indium Corp of America Utica NY	315-797-1630
Ken-Tron Mfg Inc Owensboro KY	502-684-0431
Molecu-Wire Corp Farmingdale NJ	201-938-9473
Peerless Radio Corp Lynbrook NY	516-593-2121
Stamet Mfg Corp Fairfield NJ	201-227-2432
Supercon Inc Shrewsbury MA	617-842-0174
Wilkinson Co Westlake Village CA	818-889-0050

WIRE, BARE—GOLD

PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA	617-226-1200
Atomerco Chemetals Corp Plainview NY	516-349-8800
Cominco Electronic Materials Inc	
Spokane WA	509-924-2200
Cooper Wire Div Stern Metals Inc	
Mt Vernon NY	914-668-5597
Engelhard Industries Iselin NJ	201-321-5900
Garfield Industries Philadelphia PA	215-743-4653
General Diode Corp Framingham MA	617-879-0880
Handy & Harman New York NY	212-752-3400
Heraeus-Volkert Inc Queens Village NY	718-464-8400
International Wire Prods Co Div Carlisle	
Wyckoff NJ	201-891-5800
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553
Peerless Radio Corp Lynbrook NY	516-593-2121
Precision Metallurgical Corp A Leach & Garner Co	
Attleboro MA	617-226-1200
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Semiconductor Packaging Materials Co	
Mamaroneck NY	914-698-5353
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp	
New York NY	212-966-4330
Wilkinson Co Westlake Village CA	818-889-0050
Williams Gold Refining Co Inc Precious Metals Div	
Buffalo NY	716-837-1000

WIRE, BARE—MOLYBDENUM

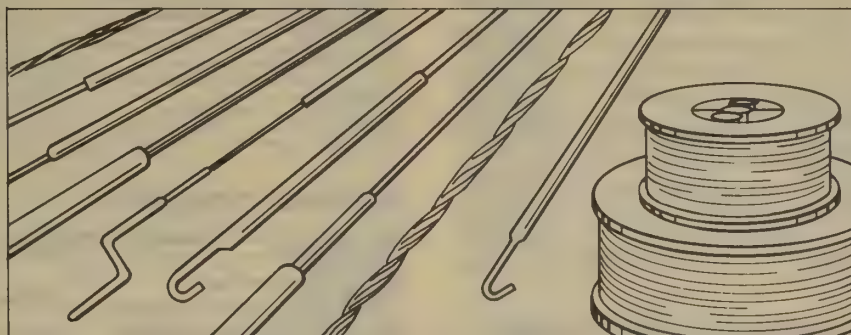
GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT	
CLEVELAND OH	216-266-2451
ADV PG 533	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAES GETTERS/USA INC	
COLORADO SPRINGS CO	303-576-3200
Active Alloys Inc Elizabeth NJ	201-351-9500
Atomerco Chemetals Corp Plainview NY	516-349-8800
Cross Co H Weehawken NJ	201-863-1134
General Diode Corp Framingham MA	617-879-0880
Gen Elec Co Glass & Metallurgical Prods Dept	
Cleveland OH	216-266-2451
GTE Precision Materials Danvers MA	617-777-1900
Keith Co Inc Pico Rivera CA	213-685-3484
Materials Research Corp Orangeburg NY	914-359-4200
MWS Wire Industries Westlake Village CA	818-991-8553
Peerless Radio Corp Lynbrook NY	516-593-2121
Philips Elmet Corp Lewiston ME	207-784-3591
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
SAES Getters/USA Inc Colorado Springs CO	303-576-3200
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp	
New York NY	212-966-4330

WIRE, BARE—MONEL

PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Active Alloys Inc Elizabeth NJ	201-351-9500
AFN Corp Somerset NJ	201-560-1240
Brookfield Wire Co Inc Brookfield MA	617-867-3535
Carpenter Technology Corp Reading PA	215-371-2000
Teletron Industries Inc Mt Vernon NY	914-667-3535
Aagnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553
National-Standard Co Niles MI	616-683-8100
Peerless Radio Corp Lynbrook NY	516-593-2121
Stamet Mfg Corp Fairfield NJ	201-227-2432
York Wire Co Clifton NJ	201-472-8200



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- Cut Straights
- Matrix Impact Printhead Wire
- Molybdenum EDM Wire
- Lamp Filaments
- Tungsten Metallizing Wire and Coils
- Stranded Tungsten & Molybdenum Wire

And many others. Call or write for free literature on the specific materials in which you are interested. General Electric Company, Glass & Metallurgical Products Marketing & Sales Operation, 24400 Highland Road, Richmond Heights, Ohio 44143. Phone: (216) 266-2451.

GENERAL  ELECTRIC

WIRE, BARE—NIOBIUM

PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Active Alloys Inc Elizabeth NJ	201-351-9500
Atomerco Chemetals Corp Plainview NY	516-349-8800
Cross Co H Weehawken NJ	201-863-1134
General Diode Corp Framingham MA	617-879-0880
Materials Research Corp Orangeburg NY	914-359-4200
MWS Wire Industries Westlake Village CA	818-991-8553
Peerless Radio Corp Lynbrook NY	516-593-2121
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Stamet Mfg Corp Fairfield NJ	201-227-2432
Supercon Inc Shrewsbury MA	617-842-0174
United Mineral & Chemical Corp	
New York NY	212-966-4330

WIRE, BARE—PHOSPHOR BRONZE

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
AFN Corp Somerset NJ	201-560-1240
Birnbach Co Inc Farmingdale NY	516-420-9800
Brand-Rex/Nonotuck Div South Hadley MA	413-534-0271
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Helenor Industries Inc Mt Vernon NY	914-667-3535
International Wire Prods Co Div Carlisle	
Wyckoff NJ	201-891-5800
Ken-Tron Mfg Inc Owensboro KY	502-684-0431
Molecu-Wire Corp Farmingdale NJ	201-938-9473
Montgomery Co Windsor Locks CT	203-623-3336
MWS Wire Industries Westlake Village CA	818-991-8553
New England Electric Wire Corp Lisbon NH	603-838-6629
Peerless Radio Corp Lynbrook NY	516-593-2121
Stamet Mfg Corp Fairfield NJ	201-227-2432

WIRE, BARE—PLATINUM

OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA	617-226-1200
Atomerco Chemetals Corp Plainview NY	516-349-8800
C-Temp Inc Anaheim CA	714-630-8451
Engelhard Industries Iselin NJ	201-321-5900
General Diode Corp Framingham MA	617-879-0880

WIRE, BARE—SEMICONDUCTOR BONDING

PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Cominco Electronic Materials Inc	
Spokane WA	509-924-2200
Cooper Wire Div Stern Metals Inc	
Mt Vernon NY	914-668-5597
Garfield Industries Philadelphia PA	215-743-4653
General Diode Corp Framingham MA	617-879-0880
Heraeus-Volkert Inc Queens Village NY	718-464-8400
International Wire Prods Co Div Carlisle	
Wyckoff NJ	201-891-5800
MWS Wire Industries Westlake Village CA	818-991-8553
Peerless Radio Corp Lynbrook NY	516-593-2121
Semiconductor Packaging Materials Co	
Mamaroneck NY	914-698-5353
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp	
New York NY	212-966-4330

WIRE, BARE—SILVER

KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
PRECISION METALLURGICAL CORP A LEACH & GARNER CO ATTLEBORO MA	617-226-1200
Atomerco Chemetals Corp Plainview NY	516-349-8800
Cominco Electronic Materials Inc	
Spokane WA	509-924-2200

Cooper Wire Div Stern Metals Inc	
Mt Vernon NY	914-668-5597
Engelhard Industries Iselin NJ	201-321-5900
Garfield Industries Philadelphia PA	215-743-4653
General Diode Corp Framingham MA	617-879-0880
Handy & Harman New York NY	212-752-3400
Heraeus-Volkert Inc Queens Village NY	718-464-8400
International Wire Prods Co Div Carlisle	
Wyckoff NJ	201-891-5800
Ken-Tron Mfg Inc Owensboro KY	502-684-0431
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Materials Research Corp Orangeburg NY	914-359-4200
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553
Peerless Radio Corp Lynbrook NY	516-593-2121
Precision Metallurgical Corp A Leach & Garner Co	
Attleboro MA	617-226-1200
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Stamet Mfg Corp Fairfield NJ	201-227-2432
Wall Co A T Warwick RI	401-739-0740
Wilkinson Co Westlake Village CA	818-889-0050
Williams Gold Refining Co Inc Precious Metals Div	
Buffalo NY	716-837-1000

WIRE, BARE—STEEL (INCL. GUY WIRE)

KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Keith Co Inc Pico Rivera CA	213-685-3484
King Wire & Cable Corp Jamaica NY	718-657-4422
National-Standard Co Niles MI	616-683-8100
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Stamet Mfg Corp Fairfield NJ	201-227-2432
Wright Steel & Wire Co G F Worcester MA	617-754-6824

WIRE, BARE—STEEL, COPPER CLAD

GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT	
CLEVELAND OH	216-266-2451
ADV PG 533	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Copperweld Bimetals Group Pittsburgh PA	412-777-3000
Gen Elec Co Glass & Metallurgical Prods Dept	
Cleveland OH	216-266-2451
GTE Precision Materials Danvers MA	617-777-1900
International Wire Prods Co Div Carlisle	
Wyckoff NJ	201-891-5800
Ken-Tron Mfg Inc Owensboro KY	502-684-0431
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
MWS Wire Industries Westlake Village CA	818-991-8553
National-Standard Co Niles MI	616-683-8100
Peerless Radio Corp Lynbrook NY	516-593-2121
Permaluster Inc Burbank CA	213-849-4543
Stamet Mfg Corp Fairfield NJ	201-227-2432
Supercon Inc Shrewsbury MA	617-842-0174

WIRE, BARE—STEEL, STAINLESS

KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Armco Middletown OH	800-231-3748
Berg Inc Winfred M East Rockaway NY	516-599-5010
Brookfield Wire Co Inc Brookfield MA	617-867-6474
Carpenter Technology Corp Reading PA	215-371-2000
International Wire Prods Co Div Carlisle	
Wyckoff NJ	201-891-5800
Ken-Tron Mfg Inc Owensboro KY	502-684-0431
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553
National-Standard Co Niles MI	616-683-8100
Peerless Radio Corp Lynbrook NY	516-593-2121
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Shokai Far East Ltd Hartsdale NY	914-681-0700
Stamet Mfg Corp Fairfield NJ	201-227-2432
York Wire Co Clifton NJ	201-472-8200

WIRE, BARE—TANTALUM

PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Active Alloys Inc Elizabeth NJ	201-351-9500
Atomerich Chemetals Corp Plainview NY	516-349-8800
Cross Co H Weehawken NJ	201-863-1134
General Diode Corp Framingham MA	617-879-0880
Magnet Wire Inc Corona NY	718-651-0900
Materials Research Corp Orangeburg NY	914-359-4200
MWS Wire Industries Westlake Village CA	818-991-8553
NRC Inc Newton MA	617-969-7890
Peerless Radio Corp Lynbrook NY	516-593-2121
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp	
New York NY	212-966-4330
York Wire Co Clifton NJ	201-472-8200

WIRE, BARE—TITANIUM

PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Active Alloys Inc Elizabeth NJ	201-351-9500
Atomerich Chemetals Corp Plainview NY	516-349-8800
General Diode Corp Framingham MA	617-879-0880
Materials Research Corp Orangeburg NY	914-359-4200
MWS Wire Industries Westlake Village CA	818-991-8553
Peerless Radio Corp Lynbrook NY	516-593-2121
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp	
New York NY	212-966-4330
York Wire Co Clifton NJ	201-472-8200

WIRE, BARE—TUNGSTEN

GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT	
CLEVELAND OH	216-266-2451
ADV PG 533	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAES GETTERS/USA INC	
COLORADO SPRINGS CO	303-576-3200
Active Alloys Inc Elizabeth NJ	201-351-9500
Atomerich Chemetals Corp Plainview NY	516-349-8800
Cross Co H Weehawken NJ	201-863-1134
C-Temp Inc Anaheim CA	714-630-8451
General Diode Corp Framingham MA	617-879-0880
Gen Elec Co Glass & Metallurgical Prods Dept	
Cleveland OH	216-266-2451
GTE Precision Materials Danvers MA	617-777-1900
Magnet Wire Inc Corona NY	718-651-0900
Materials Research Corp Orangeburg NY	914-359-4200
MWS Wire Industries Westlake Village CA	818-991-8553
Omega Engineering Inc Stamford CT	203-359-1660
Peerless Radio Corp Lynbrook NY	516-593-2121
Philips Elmet Corp Lewiston ME	207-784-3591
Polysciences Inc Warrington PA	215-343-6484
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
SAES Getters/USA Inc Colorado Springs CO	303-576-3200
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp	
New York NY	212-966-4330

WIRE, BARE—ZIRCONIUM

PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Active Alloys Inc Elizabeth NJ	201-351-9500
Atomerich Chemetals Corp Plainview NY	516-349-8800
Cross Co H Weehawken NJ	201-863-1134
General Diode Corp Framingham MA	617-879-0880
Materials Research Corp Orangeburg NY	914-359-4200
MWS Wire Industries Westlake Village CA	818-991-8553
Peerless Radio Corp Lynbrook NY	516-593-2121
Reade Metals & Minerals Corp Rumson NJ	201-842-2294
Stamet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp	
New York NY	212-966-4330
York Wire Co Clifton NJ	201-472-8200

WIRE BONDERS

See Machines, Semiconductor

Production—Bonders

WIRE CLOTH & SCREENS

See Fabrics; Silk Screens;

Shielding—Electrostatic; Shielding—Woven Wire

WIRE—CUT & STRIPPED

ALMOR CO INC WEYMOUTH MA	617-331-8400
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
MUPAC CORP BROCKTON MA	617-588-6110
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Almor Co Inc Weymouth MA	617-331-8400
Alphatron Ltd Haverhill MA	617-687-2371
Alpha Wire Corp Elizabeth NJ	201-925-8000
American Electric Cable Co Holyoke MA	413-539-9893
Aries Electronics Inc Frenchtown NJ	201-996-6841
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Birnbach Co Inc Farmingdale NY	516-420-9800
Carol Cable Co Inc Electn Cables Div	
Pawtucket RI	401-724-9605
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Carpenter Mfg Co Inc Manlius NY	315-682-9176
Champlain Cable Corp Winooksi VT	802-655-2121
Circuit Assembly Corp Irvine CA	714-855-7887
Corlund Electronics Corp Newbury Park CA	805-499-6877
dataCon Inc The Wire Wrappers	
Burlington MA	617-273-5800
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Deca Mfg Co Inc Lexington OH	419-884-0071
Diversified Traffic Prods Inc Mercury Electn Div	
York PA	717-854-9557
EIS Wire & Cable South Hadley MA	413-536-0152
Electro Cords Div Middlebury IN	219-825-9466
Electronic Tool Co Inc Pleasantville NY	914-769-8070

Electroprep Inc Cataumet MA	617-563-5559
Electrowave Inc Worcester MA	617-752-8932
ELMA Div Sandberg Ind Inc Irvine CA	714-261-9473
Estes Engineering Co Port Angeles WA	206-457-0904
Fancort Industries Inc West Caldwell NJ	201-575-0610
Fema Electronics Corp East Brunswick NJ	201-238-1223
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
General Wire Products Inc Worcester MA	617-752-8260
G M I Electronics Inc Plainfield NJ	201-755-5980
GSI Corp Timonium MD	301-252-1788
Hobson Brothers Inc Chicago IL	312-283-3600
Inmac Santa Clara CA	408-727-1970
King Wire & Cable Corp Jamaica NY	718-657-4422
Light Fabrications Inc Rochester NY	716-235-6311
Manger Electric Co Inc Stamford CT	203-348-7776
Micro Metrics Inc Paterson NJ	201-345-9700
Miller Elec Co Div Carol Cable Co	
Pawtucket RI	401-728-7000
Mupac Corp Brockton MA	617-588-6110
Mutron Corp Brockton MA	617-364-2442
National Telephone & Electn Inc Miami FL	305-592-0515
National Wire & Cable Corp Los Angeles CA	213-225-5611
Northern Automatic Assembly Inc	
Shoreview MN	612-481-0022
O K Industries Bronx NY	212-994-6600
Omega Leads Inc Santa Monica CA	213-346-6786
Paraplegics Mfg Co Inc Bensenville IL	312-625-7747
Peerless Radio Corp Lynbrook NY	516-593-2121
Rainbow Wire Corp Madison NJ	201-887-2550
Ripley Co Inc Utility Tool Div Cromwell CT	203-635-2200
Sager Hingham MA	617-749-6700
Sag Harbor Industries Inc Sag Harbor NY	516-725-0440
Shokai Far East Ltd Hartsdale NY	914-681-0700
Sittler Corp Chicago IL	312-733-4616
Stamet Mfg Corp Fairfield NJ	201-227-2432
Storm Products Co Ingleswood CA	213-776-8141
Techrand Corp of America Muskegon MI	616-744-1683
Trans American Transformer Inc Medford NY	516-654-1880
Ultra Products Manitou Beach MI	517-547-3181
Vertex Electronics Inc Farmingdale NY	516-293-9882
Victor Corp West Warwick RI	401-821-7800
V I P Industries Inc Paterson NJ	201-345-5800
Whitmor Wire & Cable Corp	
North Hollywood CA	818-764-6296
Woven Electronics Corp Mauldin SC	803-963-5131
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE CUTTING & STRIPPING MACHINES

See Machines

WIRE CUTTING, STRIPPING & MARKING SERVICES

See Productions Services

WIRE—FINE WIRE SPECIALTIES

See Tube Parts; Wire—Bare; Wire—Resistance

WIRE—FUSE

See Wire—Resistance

WIRE—GLASS-SEALING

See Wire—Bare

WIRE—GUY

KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
Associated Electronics/3M Painesville OH	216-354-0925
Carolina Steel & Wire Corp Lexington SC	803-359-5501
Copperweld Bimetals Group Pittsburgh PA	412-777-3000
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Inmac Santa Clara CA	408-727-1970
King Wire & Cable Corp Jamaica NY	718-657-4422
Shokai Far East Ltd Hartsdale NY	914-681-0700
Stamet Mfg Corp Fairfield NJ	201-227-2432
UNR-Rohn Peoria IL	309-697-4400
Wright Steel & Wire Co G F Worcester MA	617-754-6824

WIRE HARNESS ASSEMBLIES

See Wiring Harnesses

See Also Cable Assemblies

WIRE, HIGH TEMPERATURE—ALUMINUM OXIDE INSULATED

KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
King Wire & Cable Corp Jamaica NY	718-657-4422
Marlin Mfg Corp Cleveland OH	216-941-6200
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553

Pace Transducer Co Div CJ Instr Inc	
Tarzana CA	818-996-4131
Permaluster Inc Burbank CA	213-849-4543
Pyco Inc Penndel PA	215-757-3704
Temp-Pro Inc Northampton MA	413-584-3165
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Vertex Electronics Inc Farmingdale NY	516-293-9880
Wes-Garde Components Group Inc	
Hartford CT	203-525-6907
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HIGH TEMPERATURE—ASBESTOS INSULATED

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Electrowave Inc Worcester MA	617-752-8932
Keith Co Inc Pico Rivera CA	213-685-3484
King Wire & Cable Corp Jamaica NY	718-657-4422
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Omega Engineering Inc Stamford CT	203-359-1660
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Pyco Inc Penndel PA	215-757-3704
Rainbow Wire Corp Madison NJ	201-887-2550
Rockbestos Co New Haven CT	203-772-2250
Temp-Pro Inc Northampton MA	413-584-3165
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
Vertex Electronics Inc Farmingdale NY	516-293-9880
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HIGH TEMPERATURE—CERAMIC INSULATED

KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
Amperex Electronic Corp Hicksville Div	
Hicksville NY	516-931-6200
ARI Industries Inc Addison IL	312-953-9100
Birnbach Co Inc Farmingdale NY	516-420-9800
Ceramawire Cranford NJ	201-276-1170
Continental Wire & Cable York PA	717-792-2644
Gordon Co Claud S Richmond IL	815-678-2211
Keith Co Inc Pico Rivera CA	213-685-3484
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Manhattan Electric Cable Corp Rye NY	609-455-8530
Marlin Mfg Corp Cleveland OH	216-941-6200
MWS Wire Industries Westlake Village CA	818-991-8553
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Omega Engineering Inc Stamford CT	203-359-1660
Permaluster Inc Burbank CA	213-849-4543
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Santa Fe Textiles Inc Santa Ana CA	714-751-7733
Temp-Pro Inc Northampton MA	413-584-3165
Vertex Electronics Inc Farmingdale NY	516-293-9880
Wes-Garde Components Group Inc	
Hartford CT	203-525-6907
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HIGH TEMPERATURE—GLASS INSULATED

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
OMEGA ENGINEERING INC	
STAMFORD CT	203-359-1660
ADV PG Gatefold	
American Insulated Wire Corp Pawtucket RI	401-726-0700
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Bridgeport Insulated Wire Co Bridgeport CT	203-333-3191
Carpenter Technology Corp Reading PA	215-371-2000
Champlain Cable Corp Winoski VT	802-655-2121
Connector Systems Div BIW Santa Rosa CA	707-523-2300
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Corning Glass Works Elctn Materials Dept	
Corning NY	607-974-4102
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Electrowave Inc Worcester MA	617-752-8932
General Wire Products Inc Worcester MA	617-752-8260
Gordon Co Claud S Richmond IL	815-678-2211
King Wire & Cable Corp Jamaica NY	718-657-4422

Magnet Wire Inc Corona NY	718-651-0900
Manhattan Electric Cable Corp Rye NY	609-455-8530
Market Corp Norristown PA	215-272-8960
Molecu-Wire Corp Farmingdale NJ	201-938-9473
New England Electric Wire Corp Lisbon NH	603-838-6629
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Omega Engineering Inc Stamford CT	203-359-1660
Permaluster Inc Burbank CA	213-849-4543
Philadelpha Insulated Wire Co Inc	
Moorestown NJ	609-235-6700
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Pyco Inc Penndel PA	215-757-3704
Rea Magnet Wire Co Inc Fort Wayne IN	219-424-4252
Rockbestos Co New Haven CT	203-772-2250
Rowe Industries Inc Toledo OH	419-729-9761
Santa Fe Textiles Inc Santa Ana CA	714-751-7733
Springfield Wire Inc Springfield MA	413-781-6950
Temp-Pro Inc Northampton MA	413-584-3165
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
Thermax Wire Corp Flushing NY	718-939-8300
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Wire & Cable Corp Los Angeles CA	213-870-9933
Wes-Garde Components Group Inc	
Hartford CT	203-525-6907
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HIGH TEMPERATURE—MICA INSULATED

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Connector Systems Div BIW Santa Rosa CA	707-523-2300
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
King Wire & Cable Corp Jamaica NY	718-657-4422
Manhattan Electric Cable Corp Rye NY	609-455-8530
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Rockbestos Co New Haven CT	203-772-2250
Temp-Pro Inc Northampton MA	413-584-3165
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
Thermax Wire Corp Flushing NY	718-939-8300
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HIGH TEMPERATURE—SILICONE INSULATED

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
SAGER HINGHAM MA	
ADV PGS Green Pages/Footstrips	617-749-6700
American Insulated Wire Corp Pawtucket RI	401-726-0700
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Connector Systems Div BIW Santa Rosa CA	707-523-2300
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
FL Surprenant Wire & Cable Div Clinton MA	617-368-1401
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
King Wire & Cable Corp Jamaica NY	718-657-4422
Madison Wire & Cable Corp Worcester MA	617-752-7320
Manhattan Electric Cable Corp Rye NY	609-455-8530
Market Corp Norristown PA	215-272-8960
Molecu-Wire Corp Farmingdale NJ	213-225-5611
National Wire & Cable Corp Los Angeles CA	201-575-1101
Offlex Wire & Cable Inc Fairfield NJ	201-227-7996
Olympic Wire & Cable Corp Fairfield NJ	213-636-2125
Oneida Electronic Mfg Inc Meadville PA	213-849-4543
Permaluster Inc Burbank CA	203-772-2250
Rockbestos Co New Haven CT	419-729-9761
Rowe Industries Inc Toledo OH	401-722-8600
Royal Electric Div FL Indus Inc Pawtucket RI	617-749-6700
Sager Hingham MA	617-781-6950
Springfield Wire Inc Springfield MA	413-776-8141
Storm Products Co Ingleswood CA	213-584-3165
Temp-Pro Inc Northampton MA	413-584-3165
Vertex Electronics Inc Farmingdale NY	516-293-9880
Virginia Plastics Co Roanoke VA	703-985-3611
Wes-Garde Components Group Inc	
Hartford CT	203-525-6907
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HIGH VOLTAGE, INSULATED—SHIELDED

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
SAGER HINGHAM MA	
ADV PGS Green Pages/Footstrips	617-749-6700
Alden Products Co Brockton MA	617-583-0160
American Electric Cable Co Holyoke MA	413-539-9893
American Insulated Wire Corp Pawtucket RI	401-726-0700
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Champlain Cable Corp Winoski VT	802-655-2121
Connector Systems Div BIW Santa Rosa CA	707-523-2300
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Electrowave Inc Worcester MA	617-752-8932
Estes Engineering Co Port Angeles WA	206-457-0904
FL Surprenant Wire & Cable Div Clinton MA	617-368-1401
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
Gore & Assoc Inc W L Newark DE	302-738-4880
Judd Wire Div High Voltage Engineering	
Turners Falls MA	413-863-4357
Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720
King Wire & Cable Corp Jamaica NY	718-657-4422
Lynn Electronics Corp Feasterville PA	215-355-8200
Manhattan Electric Cable Corp Rye NY	609-455-8530
Market Corp Norristown PA	215-272-8960
National Wire & Cable Corp Los Angeles CA	213-225-5611
Oneida Electronic Mfg Inc Meadville PA	814-336-2125
Rainbow Wire Corp Madison NJ	201-887-2550
Raychem Corp Menlo Park CA	415-361-3333
Rowe Industries Inc Toledo OH	419-729-9761
Sager Hingham MA	617-749-6700
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
Thermax Wire Corp Flushing NY	718-939-8300
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Victor Wire & Cable Corp Los Angeles CA	213-870-9933
Wes-Garde Components Group Inc	
Hartford CT	203-525-6907
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HIGH VOLTAGE, INSULATED—UNSHIELDED

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
SAGER HINGHAM MA	
ADV PGS Green Pages/Footstrips	617-749-6700
Alden Products Co Brockton MA	617-583-0160
American Electric Cable Co Holyoke MA	413-539-9893
American Insulated Wire Corp Pawtucket RI	401-726-0700
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Carol Cable Co Inc Elctn Cables Div	
Pawtucket RI	401-724-9605
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Champlain Cable Corp Winoski VT	802-655-2121
Connector Systems Div BIW Santa Rosa CA	707-523-2300
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
Electrowave Inc Worcester MA	617-752-8932
Estes Engineering Co Port Angeles WA	206-457-0904
FL Surprenant Wire & Cable Div Clinton MA	617-368-1401
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
Gore & Assoc Inc W L Newark DE	302-738-4880
Judd Wire Div High Voltage Engineering	
Turners Falls MA	413-863-4357
Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720
King Wire & Cable Corp Jamaica NY	718-657-4422
Lenz Electric Mfg Co Chicago IL	312-276-4454
Lynn Electronics Corp Feasterville PA	215-355-8200
Manhattan Electric Cable Corp Rye NY	609-455-8530
Market Corp Norristown PA	215-272-8960
National Wire & Cable Corp Los Angeles CA	213-225-5611
Rainbow Wire Corp Madison NJ	201-887-2550
Raychem Corp Menlo Park CA	415-361-3333
Rockbestos Co New Haven CT	203-772-2250
Rowe Industries Inc Toledo OH	419-729-9761
Royal Electric Div FL Indus Inc Pawtucket RI	617-749-6700
Sager Hingham MA	617-749-6700
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
Thermax Wire Corp Flushing NY	718-939-8300
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Victor Wire & Cable Corp Los Angeles CA	213-870-9933

Wes-Garde Components Group Inc	
Hartford CT	203-525-6907
Workman Electronic Products Inc	
Sarasota FL	800-237-6666
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HOOKUP, INSULATED—COTTON

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
American Electric Cable Co Holyoke MA	413-539-9893
American Insulated Wire Corp Pawtucket RI	401-726-0700
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Electrowave Inc Worcester MA	617-752-8932
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
General Wire Products Inc Worcester MA	617-752-8260
JPM Co Lewisburg PA	717-523-1101
King Wire & Cable Corp Jamaica NY	718-657-4422
Lenz Electric Mfg Co Chicago IL	312-276-4454
Lynn Electronics Corp Feasterville PA	215-355-8200
New England Electric Wire Corp Lisbon NH	603-838-6629
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Peerless Radio Corp Lynbrook NY	516-593-2121
Philadelphia Insulated Wire Co Inc	
Moorestown NJ	609-235-6700
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Rockbestos Co New Haven CT	203-772-2250
Vertex Electronics Inc Farmingdale NY	516-293-9880
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HOOKUP, INSULATED—COTTON
OVER PLASTIC

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
American Electric Cable Co Holyoke MA	413-539-9893
American Insulated Wire Corp Pawtucket RI	401-726-0700
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
Electrowave Inc Worcester MA	617-752-8932
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
General Wire Products Inc Worcester MA	617-752-8260
JPM Co Lewisburg PA	717-523-1101
King Wire & Cable Corp Jamaica NY	718-657-4422
Lenz Electric Mfg Co Chicago IL	312-276-4454
Lynn Electronics Corp Feasterville PA	215-355-8200
New England Electric Wire Corp Lisbon NH	603-838-6629
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Peerless Radio Corp Lynbrook NY	516-593-2121
Philadelphia Insulated Wire Co Inc	
Moorestown NJ	609-235-6700
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Rockbestos Co New Haven CT	203-772-2250
Vertex Electronics Inc Farmingdale NY	516-293-9880
Wes-Garde Components Group Inc	
Hartford CT	203-525-6907
Workman Electronic Products Inc	
Sarasota FL	800-237-6666

WIRE, HOOKUP, INSULATED—GLASS
OVER PLASTIC

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Champlain Cable Corp Winooski VT	802-655-2121
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
Electrowave Inc Worcester MA	617-752-8932

FL Surprenant Wire & Cable Div Clinton MA	617-368-1401
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
General Wire Products Inc Worcester MA	617-752-8260
King Wire & Cable Corp Jamaica NY	718-657-4422
Lenz Electric Mfg Co Chicago IL	312-276-4454
Manhattan Electric Cable Corp Rye NY	609-455-8530
New England Electric Wire Corp Lisbon NH	603-838-6629
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Philadelphia Insulated Wire Co Inc	
Moorestown NJ	609-235-6700
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Rainbow Wire Corp Madison NJ	201-887-2550
Rockbestos Co New Haven CT	203-772-2250
Sager Hingham MA	617-749-6700
Springfield Wire Inc Springfield MA	413-781-6950
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Wire & Cable Corp Los Angeles CA	213-870-9933
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HOOKUP, INSULATED—KEL-F
(FLUOROCARBON)

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
King Wire & Cable Corp Jamaica NY	718-657-4422
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Rainbow Wire Corp Madison NJ	201-887-2550
Thermox Wire Corp Flushing NY	718-939-8300
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800

WIRE, HOOKUP, INSULATED—NYLON

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
American Electric Cable Co Holyoke MA	413-539-9893
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Berk-Tek Inc Reading PA	215-376-8071
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Chester Cable Corp Chester NY	914-469-2141
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
Electrowave Inc Worcester MA	617-752-8932
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
General Wire Products Inc Worcester MA	617-752-8260
JSC Wire & Cable Wayne NJ	201-684-6200
King Wire & Cable Corp Jamaica NY	718-657-4422
Lynn Electronics Corp Feasterville PA	215-355-8200
Manhattan Electric Cable Corp Rye NY	609-455-8530
National Wire & Cable Corp Los Angeles CA	213-225-5611
New England Electric Wire Corp Lisbon NH	603-838-6629
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Peerless Radio Corp Lynbrook NY	516-593-2121
Philadelphia Insulated Wire Co Inc	
Moorestown NJ	609-235-6700
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Rainbow Wire Corp Madison NJ	201-887-2550
Rockbestos Co New Haven CT	203-772-2250
Sager Hingham MA	617-749-6700
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Victor Wire & Cable Corp Los Angeles CA	213-870-9933
Wes-Garde Components Group Inc	
Hartford CT	203-525-6907
Whitmor Wire & Cable Corp	
North Hollywood CA	818-764-6296
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HOOKUP, INSULATED—NYLON
OVER PLASTIC

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	

Alpha Wire Corp Elizabeth NJ	201-925-8000
American Electric Cable Co Holyoke MA	413-539-9893
American Insulated Wire Corp Pawtucket RI	401-726-0700
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Berk-Tek Inc Reading PA	215-376-8071
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Champlain Cable Corp Winooski VT	802-655-2121
Chester Cable Corp Chester NY	914-469-2141
Chicago Magnet Wire Corp	
Elk Grove Village IL	312-397-7337
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
FL Surprenant Wire & Cable Div Clinton MA	617-368-1401
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
General Wire Products Inc Worcester MA	617-752-8260
JSC Wire & Cable Wayne NJ	201-684-6200
Judd Wire Div High Voltage Engineering	
Turners Falls MA	413-863-4357
Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720
King Wire & Cable Corp Jamaica NY	718-657-4422
Lenz Electric Mfg Co Chicago IL	312-276-4454
Liberty Copper & Wire Div MagneTek Inc	
Downers Grove IL	312-969-7666
Lynn Electronics Corp Feasterville PA	215-355-8200
Manhattan Electric Cable Corp Rye NY	609-455-8530
National Wire & Cable Corp Los Angeles CA	213-225-5611
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Part Distributors Inc Bridgeport CT	203-366-7200
Peerless Radio Corp Lynbrook NY	516-593-2121
Philadelphia Insulated Wire Co Inc	
Moorestown NJ	609-235-6700
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Rainbow Wire Corp Madison NJ	201-887-2550
Rockbestos Co New Haven CT	203-772-2250
Royal Electric Div FL Indus Inc Pawtucket RI	401-722-8600
Sager Hingham MA	617-749-6700
Storm Products Co Inglewood CA	213-776-8141
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Victor Wire & Cable Corp Los Angeles CA	213-870-9933
Wes-Garde Components Group Inc	
Hartford CT	203-525-6907
Whitmor Wire & Cable Corp	
North Hollywood CA	818-764-6296
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HOOKUP, INSULATED—PLASTIC
(GENERAL PURPOSE, BRAID, SOLID
OR WRAP)

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
PEERLESS RADIO CORP LYNNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
AID Electronics Inc Irving TX	214-790-4761
Alpha Wire Corp Elizabeth NJ	201-925-8000
American Electric Cable Co Holyoke MA	413-539-9893
American Insulated Wire Corp Pawtucket RI	401-726-0700
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Berk-Tek Inc Reading PA	215-376-8071
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Carol Cable Co Inc Electn Cables Div	
Pawtucket RI	401-724-9605
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Champlain Cable Corp Winooski VT	802-655-2121
Chester Cable Corp Chester NY	914-469-2141
Chicago Magnet Wire Corp	
Elk Grove Village IL	312-397-7337
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
Electro Cords Div Middlebury IN	219-825-9466
Electrowave Inc Worcester MA	617-752-8932
FL Surprenant Wire & Cable Div Clinton MA	617-368-1401
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
General Wire Products Inc Worcester MA	617-752-8260
JPM Co Lewisburg PA	717-523-1101
JSC Wire & Cable Wayne NJ	201-684-6200
Judd Wire Div High Voltage Engineering	
Turners Falls MA	413-863-4357
Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720

King Wire & Cable Corp Jamaica NY	718-657-4422
Liberty Copper & Wire Div MagneTek Inc	
Downers Grove IL	312-969-7660
Lynn Electronics Corp Feasterville PA	215-355-8200
Madison Wire & Cable Corp Worcester MA	617-752-7320
Manhattan Electric Cable Corp Rye NY	609-455-8530
Mohawk Wire & Cable Co Leominster MA	617-537-9961
Mountain West Alarm Supply Co Phoenix AZ	602-263-8831
National Wire & Cable Corp Los Angeles CA	213-225-5611
New England Electric Wire Corp Lisbon NH	603-838-6629
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Pace Wire & Cable Corp Oceanside NY	516-678-2275
Park Distributors Inc Bridgeport CT	203-366-7200
Peerless Radio Corp Lynbrook NY	516-593-2121
Philadelphia Insulated Wire Co Inc	
Moorestown NJ	609-235-6700
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Rainbow Wire Corp Madison NJ	201-887-2550
Remeo Wire Products Corp Florida NY	914-651-4431
Rockbestos Co New Haven CT	203-772-2250
Rockland Insulated Wire & Cable Co	
Haverstraw NY	914-429-3103
Royal Electric Div FL Indus Inc Pawtucket RI	401-722-8600
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
SOS Lighting Devices Div MEMCO	
Philadelphia PA	215-423-7077
SPC Technology Bensenville IL	312-766-6711
Spectra-Strip Operations Garden Grove CA	714-892-3361
Storm Products Co Inglewood CA	213-776-8141
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Vector Electronic Co Inc Sylmar CA	818-365-9661
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Victor Wire & Cable Corp Los Angeles CA	213-870-9933
Wes-Garde Components Group Inc	
Hartford CT	203-525-6907
Whitmor Wire & Cable Corp	
North Hollywood CA	818-764-6296
Workman Electronic Products Inc	
Sarasota FL	800-237-6666
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HOOKUP, INSULATED—POLYETHYLENE

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
Alpha Wire Corp Elizabeth NJ	201-925-8000
American Electric Cable Co Holyoke MA	413-539-9893
American Insulated Wire Corp Pawtucket RI	401-726-0700
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Berk-Tek Inc Reading PA	215-376-8071
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Chester Cable Corp Chester NY	914-469-2141
Computer Cable & Products Inc	
Farmingdale NY	516-293-1610
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
Electrowave Inc Worcester MA	617-752-8932
FL Suprenant Wire & Cable Div Clinton MA	617-368-1401
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
GC Electronics Div Household Int'l	
Rockford IL	815-968-9661
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
General Wire Products Inc Worcester MA	617-752-8260
JPM Co Lewisburg PA	717 523-1101
JSC Wire & Cable Wayne NJ	201-694-6200
Judd Wire Div High Voltage Engineering	
Turners Falls MA	413-863-4357
Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720
King Wire & Cable Corp Jamaica NY	718-657-4422
Lenz Electric Mfg Co Chicago IL	312-276-4454
Lynn Electronics Corp Feasterville PA	215-355-8200
Madison Wire & Cable Corp Worcester MA	617-752-7320
Magnetic Shield Div Perfection Mica Co	
Bensenville IL	312-766-7800
Manhattan Electric Cable Corp Rye NY	609-455-8530
Mohawk Wire & Cable Co Leominster MA	617-537-9961
National Wire & Cable Corp Los Angeles CA	213-225-5611
New England Electric Wire Corp Lisbon NH	603-838-6629
Offlex Wire & Cable Inc Fairfield NJ	201-575-1101
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Pace Wire & Cable Corp Oceanside NY	516-678-2275
Park Distributors Inc Bridgeport CT	203-366-7200
Peerless Radio Corp Lynbrook NY	516-593-2121
Philadelphia Insulated Wire Co Inc	
Moorestown NJ	609-235-6700
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Rainbow Wire Corp Madison NJ	201-887-2550
Raychem Corp Menlo Park CA	415-361-3333
Remeo Wire Products Corp Florida NY	914-651-4431
Rockbestos Co New Haven CT	203-772-2250
Rockland Insulated Wire & Cable Co	
Haverstraw NY	914-429-3103
Royal Electric Div FL Indus Inc Pawtucket RI	401-722-8600
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
SOS Lighting Devices Div MEMCO	
Philadelphia PA	215-423-7077
Spectra-Strip Operations Garden Grove CA	714-892-3361
Springfield Wire Inc Springfield MA	413-781-6950
Storm Products Co Inglewood CA	213-776-8141
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Ultra Products Manitou Beach MI	517-547-3161
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Victor Wire & Cable Corp Los Angeles CA	213-870-9933
Wes-Garde Components Group Inc	
Hartford CT	203-525-6907
Whitmor Wire & Cable Corp	
North Hollywood CA	818-764-6296
Workman Electronic Products Inc	
Sarasota FL	800-237-6666
Woven Electronics Corp Mauldin SC	803-963-5131
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

Wes-Garde Components Group Inc	
Hartford CT	203-525-6907
Whitmor Wire & Cable Corp	
North Hollywood CA	818-764-6296
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HOOKUP, INSULATED—POLYVINYLCHLORIDE

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MAGNETIC SHIELD DIV PERFECTION MICA CO	
BENSENVILLE IL	312-766-7800
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY	914-681-0700
AID Electronics Inc Irving TX	214-790-4761
Alpha Wire Corp Elizabeth NJ	201-925-8000
American Electric Cable Co Holyoke MA	413-539-9893
American Insulated Wire Corp Pawtucket RI	401-726-0700
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Berk-Tek Inc Reading PA	215-376-8071
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Carol Cable Co Inc Electn Cables Div	
Pawtucket RI	401-724-9605
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Champlain Cable Corp Winooski VT	802-655-2121
Chester Cable Corp Chester NY	914-469-2141
Chicago Magnet Wire Corp	
Elk Grove Village IL	312-397-7337
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
Electro Cords Div Middlebury IN	219-825-9466
Electrowave Inc Worcester MA	617-752-8932
FL Suprenant Wire & Cable Div Clinton MA	617-368-1401
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
General Wire Products Inc Worcester MA	617-752-8260
Hartley Products Corp Ramsey NJ	201-327-4443
Inmac Santa Clara CA	408-727-1970
ITT Pomona Electronics Pomona CA	714-623-3463
JPM Co Lewisburg PA	717 523-1101
JSC Wire & Cable Wayne NJ	201-694-6200
Judd Wire Div High Voltage Engineering	
Turners Falls MA	413-863-4357
Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720
King Wire & Cable Corp Jamaica NY	718-657-4422
Lenz Electric Mfg Co Chicago IL	312-276-4454
Lynn Electronics Corp Feasterville PA	215-355-8200
Madison Wire & Cable Corp Worcester MA	617-752-7320
Magnetic Shield Div Perfection Mica Co	
Bensenville IL	312-766-7800
Manhattan Electric Cable Corp Rye NY	609-455-8530
Mohawk Wire & Cable Co Leominster MA	617-537-9961
National Wire & Cable Corp Los Angeles CA	213-225-5611
New England Electric Wire Corp Lisbon NH	603-838-6629
Offlex Wire & Cable Inc Fairfield NJ	201-575-1101
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Pace Wire & Cable Corp Oceanside NY	516-678-2275
Park Distributors Inc Bridgeport CT	203-366-7200
Peerless Radio Corp Lynbrook NY	516-593-2121
Philadelphia Insulated Wire Co Inc	
Moorestown NJ	609-235-6700
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Rainbow Wire Corp Madison NJ	201-887-2550
Raychem Corp Menlo Park CA	415-361-3333
Remeo Wire Products Corp Florida NY	914-651-4431
Rockbestos Co New Haven CT	203-772-2250
Rockland Insulated Wire & Cable Co	
Haverstraw NY	914-429-3103
Royal Electric Div FL Indus Inc Pawtucket RI	401-722-8600
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
SOS Lighting Devices Div MEMCO	
Philadelphia PA	215-423-7077
Spectra-Strip Operations Garden Grove CA	714-892-3361
Springfield Wire Inc Springfield MA	413-781-6950
Storm Products Co Inglewood CA	213-776-8141
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Ultra Products Manitou Beach MI	517-547-3161
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Victor Wire & Cable Corp Los Angeles CA	213-870-9933
Wes-Garde Components Group Inc	
Hartford CT	203-525-6907
Whitmor Wire & Cable Corp	
North Hollywood CA	818-764-6296
Workman Electronic Products Inc	
Sarasota FL	800-237-6666
Woven Electronics Corp Mauldin SC	803-963-5131
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HOOKUP, INSULATED—SHIELDED

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MAGNETIC SHIELD DIV PERFECTION MICA CO	
BENSENVILLE IL	312-766-7800
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
Alpha Wire Corp Elizabeth NJ	201-925-8000
American Electric Cable Co Holyoke MA	413-539-9893
American Insulated Wire Corp Pawtucket RI	401-726-0700
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Berk-Tek Inc Reading PA	215-376-8071
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Carol Cable Co West Rancho Dominguez CA	213-537-8050
Champlain Cable Corp Winooski VT	802-655-2121
Chester Cable Corp Chester NY	914-469-2141
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
Electrowave Inc Worcester MA	617-752-8932
ELMA Div Sandberg Ind Inc Irvine CA	714-281-9473
FL Suprenant Wire & Cable Div Clinton MA	617-368-1401
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
GC Electronics Div Household Int'l	
Rockford IL	815-968-9661
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
General Wire Products Inc Worcester MA	617-752-8260
Gore & Assoc Inc W L Newark DE	302-738-4880
Harbour Industries Inc Shelburne VT	802-985-3311
Inmac Santa Clara CA	408-727-1970
JPM Co Lewisburg PA	717 523-1101
Judd Wire Div High Voltage Engineering	
Turners Falls MA	413-863-4357
Judd Wire Div High Voltage Engineering	
San Marcos CA	619-744-7720
King Wire & Cable Corp Jamaica NY	718-657-4422
Lenz Electric Mfg Co Chicago IL	312-276-4454
Lynn Electronics Corp Feasterville PA	215-355-8200
Madison Wire & Cable Corp Worcester MA	617-752-7320
Magnetic Shield Div Perfection Mica Co	
Bensenville IL	312-766-7800
Manhattan Electric Cable Corp Rye NY	609-455-8530
Mohawk Wire & Cable Co Leominster MA	617-537-9961
National Wire & Cable Corp Los Angeles CA	213-225-5611
New England Electric Wire Corp Lisbon NH	603-838-6629
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Pace Wire & Cable Corp Oceanside NY	516-678-2275
Park Distributors Inc Bridgeport CT	203-366-7200
Peerless Radio Corp Lynbrook NY	516-593-2121
Philadelphia Insulated Wire Co Inc	
Moorestown NJ	609-235-6700
Pirelli Cable Corp Special Cable Div	
Wallingford CT	203-265-5533
Rainbow Wire Corp Madison NJ	201-887-2550
Raychem Corp Menlo Park CA	415-361-3333
Remeo Wire Products Corp Florida NY	914-651-4431
Rockbestos Co New Haven CT	203-772-2250
Rockland Insulated Wire & Cable Co	
Haverstraw NY	914-429-3103
Sager Hingham MA	617-749-6700
Storm Products Co Inglewood CA	213-776-8141
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
Thermawire Corp Flushing NY	718-939-5800
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Victor Wire & Cable Corp Los Angeles CA	213-870-9933
Wes-Garde Components Group Inc	
Hartford CT	203-525-6907
Whitmor Wire & Cable Corp	
North Hollywood CA	818-764-6296
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HOOKUP, INSULATED—SILICONE RUBBER

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP	
FRANKLIN PARK IL	312-455-8830
ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY	718-657-4422
ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP	
RYE NY	609-455-8530
ADV PG 54	
PEERLESS RADIO CORP LYNBROOK NY	516-593-2121
ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA	617-749-6700
ADV PGS Green Pages/Footstrips	
AID Electronics Inc Irving TX	214-790-4761
American Insulated Wire Corp Pawtucket RI	401-726-0700
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div	
Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc	
Santa Ana CA	714-549-0336
Champlain Cable Corp Winooski VT	802-655-2121
Connector Systems Div BIOS Santa Rosa CA	707-523-2300

Consolidated Electronic Wire & Cable Corp Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
EIS Wire & Cable South Hadley MA	413-536-0152
FL Surprenant Wire & Cable Div Clinton MA	617-368-1401
General Elec Co Wire & Cable Dept Bridgeport CT	800-252-0900
King Wire & Cable Corp Jamaica NY	718-657-4422
Manhattan Electric Cable Corp Rye NY	609-455-8530
Markel Corp Norristown PA	215-272-8960
National Wire & Cable Corp Los Angeles CA	213-225-5611
New England Electric Wire Corp Lisbon NH	603-838-6629
Offlex Wire & Cable Inc Fairfield NJ	201-575-1101
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Peerless Radio Corp Lynbrook NY	516-593-2121
Rainbow Wire Corp Madison NJ	201-887-2550
Rockbestos Co New Haven CT	203-772-2250
Rowe Industries Inc Toledo OH	419-729-9761
Royal Electric Div FL Inc In Pawtucket RI	401-722-8600
Sager Hingham MA	617-749-6700
Springfield Wire Inc Springfield MA	413-781-6950
Ultra Products Manitow Beach MI	517-547-3161
Vertex Electronics Inc Farmingdale NY	516-293-9880
Victor Corp West Warwick RI	401-821-7800
Virginia Plastics Co Roanoke VA	703-985-3811
Wes-Garde Components Group Inc Hartford CT	203-525-6907
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HOOKUP, INSULATED—SILK

KING WIRE & CABLE CORP JAMAICA NY 718-657-4422 ADV PG 57	
PEERLESS RADIO CORP LYNBROOK NY 516-593-2121 ADV PGS Green Pages/Footstrips	
King Wire & Cable Corp Jamaica NY	718-657-4422
New England Electric Wire Corp Lisbon NH	603-838-6629
Peerless Radio Corp Lynbrook NY	516-593-2121

WIRE, HOOKUP, INSULATED—TEFLON
(FLUOROCARBON)

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP FRANKLIN PARK IL 312-455-8830 ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY 718-657-4422 ADV PG 57	
MANHATTAN ELECTRIC CABLE CORP RYE NY 609-455-8530 ADV PG 54	
PEERLESS RADIO CORP LYNBROOK NY 516-593-2121 ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA 617-749-6700 ADV PGS Green Pages/Footstrips	
AID Electronics Inc Irving TX	214-790-4761
Alpha Wire Corp Elizabeth NJ	201-925-8000
American Insulated Wire Corp Pawtucket RI	401-726-0700
Belden Electronic Wire & Cable Richmond IN	317-983-5200
Berk-Tek Inc Reading PA	215-376-8071
Birnbach Co Inc Farmingdale NY	516-420-9800
Brintec Corp Brand-Rex Cable Sys Div Willimantic CT	203-456-8000
Calmont Engineering & Electronics Inc Santa Ana CA	714-549-0336
Champlain Cable Corp Winooski VT	802-655-2121
Consolidated Electronic Wire & Cable Corp Franklin Park IL	312-455-8830
Continental Wire & Cable York PA	717-792-2644
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Electrowave Inc Worcester MA	617-752-8932
FL Surprenant Wire & Cable Div Clinton MA	617-368-1401
Gavitt Wire & Cable Co Inc Brookfield MA	617-867-6476
General Wire Products Inc Worcester MA	617-752-8260
Gore & Assoc Inc W L Newark DE	302-738-4880
Harbour Industries Inc Shelburne VT	802-985-3311
Immac Santa Clara CA	408-727-1970
King Wire & Cable Corp Jamaica NY	718-657-4422
Madison Wire & Cable Corp Worcester MA	617-752-7320
Manhattan Electric Cable Corp Rye NY	609-455-8530
Markel Corp Norristown PA	215-272-8960
National Wire & Cable Corp Los Angeles CA	213-225-5611
Norton Co Worcester MA	617-853-1000
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Park Distributors Inc Bridgeport CT	203-366-7200
Peerless Radio Corp Lynbrook NY	516-593-2121
Philadelphia Insulated Wire Co Inc Moorestown NJ	609-235-6700
Phoenix Wire Inc South Hero VT	802-372-4561
Pirelli Cable Corp Special Cable Div Wallingford CT	203-265-5533
Rainbow Wire Corp Madison NJ	201-887-2550
Rockbestos Co New Haven CT	203-772-2250
Sager Hingham MA	617-749-6700
Storm Products Co Ingewood CA	213-776-8141
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
Thermox Wire Corp Flushing NY	718-939-8300
Thermo Electric Co Inc Saddle Brook NJ	201-843-5800
Vertex Electronics Inc Farmingdale NY	516-293-9880
Virginia Plastics Co Roanoke VA	703-985-3811
Wes-Garde Components Group Inc Hartford CT	203-525-6907
Woven Electronics Corp Maudlin SC	803-963-5131
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, HOOKUP—IRRADIATED

PEERLESS RADIO CORP LYNBROOK NY 516-593-2121 ADV PGS Green Pages/Footstrips	
SAGER HINGHAM MA 617-749-6700 ADV PGS Green Pages/Footstrips	
Brintec Corp Brand-Rex Cable Sys Div Willimantic CT	203-456-8000

FL Surprenant Wire & Cable Div Clinton MA	617-368-1401
Judd Wire Div High Voltage Engineering Turners Falls MA	413-863-4357
Judd Wire Div High Voltage Engineering San Marcos CA	619-744-7720
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Peerless Radio Corp Lynbrook NY	516-593-2121
Sager Hingham MA	617-749-6700

WIRE—INDIUM

KING WIRE & CABLE CORP JAMAICA NY 718-657-4422	
Atomergic Chemetals Corp Plainview NY	516-349-8800
Cominco Electronic Materials Inc Spokane WA	509-924-2200
General Diode Corp Framingham MA	617-879-0880
Indium Corp of America Utica NY	315-797-1630
King Wire & Cable Corp Jamaica NY	718-657-4422
Materials Research Corp Orangeburg NY	914-359-4200
MWS Wire Industries Westlake Village CA	818-991-8553
Starnet Mfg Corp Fairfield NJ	201-227-2432
United Mineral & Chemical Corp New York NY	212-966-4330

WIRELINE COMMUNICATIONS
EQUIPMENT

See Communications Equipment Reference List

WIRELINE CONTROLS

See Controls—Remote

WIRE—LINE CORD SETS

See Cord Sets

WIRE—LITZ

KING WIRE & CABLE CORP JAMAICA NY 718-657-4422	
Bridgeport Insulated Wire Co Bridgeport CT	203-333-3191
Brintec Corp Brand-Rex Cable Sys Div Willimantic CT	203-456-8000
Elektrisola Newport RI	401-846-5760
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
MWS Wire Industries Westlake Village CA	818-991-8553
New England Electric Wire Corp Lisbon NH	603-838-6629
Olympic Wire & Cable Corp Fairfield NJ	201-227-7996
Permaluster Inc Burbank CA	213-849-4543

WIRE, MAGNET—COTTON ENAMELED

KING WIRE & CABLE CORP JAMAICA NY 718-657-4422	
Elektrisola Newport RI	401-846-5760
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
New England Electric Wire Corp Lisbon NH	603-838-6629
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, MAGNET—DACRON, POLYESTER

KING WIRE & CABLE CORP JAMAICA NY 718-657-4422	
Birnbach Co Inc Farmingdale NY	516-420-9800
Bridgeport Insulated Wire Co Bridgeport CT	203-333-3191
Essex Group Magnet Wire Products Ft Wayne IN	219-461-4000
General Elec Co Wire & Cable Dept Bridgeport CT	800-252-0900
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
New England Electric Wire Corp Lisbon NH	603-838-6629
Phelps Dodge Magnet Wire Co Ft Wayne IN	219-456-4444
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, MAGNET—ENAMELED

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP FRANKLIN PARK IL 312-455-8830 ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY 718-657-4422	
SAGER HINGHAM MA 617-749-6700 ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY 914-681-0700	
Birnbach Co Inc Farmingdale NY	516-420-9800
Bridgeport Insulated Wire Co Bridgeport CT	203-333-3191
Chicago Magnet Wire Corp Elk Grove Village IL	312-397-7337
Consolidated Electronic Wire & Cable Corp Franklin Park IL	312-455-8830
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Elektrisola Newport RI	401-846-5760
Engelhard Industries Iselin NJ	201-321-5900
Essex Group Magnet Wire Products Ft Wayne IN	219-461-4000
General Elec Co Wire & Cable Dept Bridgeport CT	800-252-0900
King Wire & Cable Corp Jamaica NY	718-657-4422
Liberty Copper & Wire Div MagneTek Inc Downers Grove IL	312-969-7660
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553

New England Electric Wire Corp Lisbon NH	603-838-6629
Rea Magnet Wire Co Inc Fort Wayne IN	219-424-4252
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
United Mineral & Chemical Corp New York NY	212-966-4330
Vertex Electronics Inc Farmingdale NY	516-293-9880
Viking Wire Co Inc Danbury CT	203-744-4600

WIRE, MAGNET—FORMVAR

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP FRANKLIN PARK IL 312-455-8830 ADV PG 55	
SAGER HINGHAM MA 617-749-6700 ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY 914-681-0700	
Birnbach Co Inc Farmingdale NY	516-420-9800
Bridgeport Insulated Wire Co Bridgeport CT	203-333-3191
Consolidated Electronic Wire & Cable Corp Franklin Park IL	312-455-8830
Dearborn Wire & Cable Inc Wheeling IL	312-459-1000
Essex Group Magnet Wire Products Ft Wayne IN	219-461-4000
General Elec Co Wire & Cable Dept Bridgeport CT	800-252-0900
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553
Phelps Dodge Magnet Wire Co Ft Wayne IN	219-456-4444
Rea Magnet Wire Co Inc Fort Wayne IN	219-424-4252
Sager Hingham MA	617-749-6700
Shokai Far East Ltd Hartsdale NY	914-681-0700
Vertex Electronics Inc Farmingdale NY	516-293-9880
Viking Wire Co Inc Danbury CT	203-744-4600
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, MAGNET—GLASS REINFORCED

KING WIRE & CABLE CORP JAMAICA NY 718-657-4422	
Bridgeport Insulated Wire Co Bridgeport CT	203-333-3191
Essex Group Magnet Wire Products Ft Wayne IN	219-461-4000
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
New England Electric Wire Corp Lisbon NH	603-838-6629
Phelps Dodge Magnet Wire Co Ft Wayne IN	219-456-4444

WIRE, MAGNET—NIOBIUM-TIN

KING WIRE & CABLE CORP JAMAICA NY 718-657-4422	
King Wire & Cable Corp Jamaica NY	718-657-4422
MWS Wire Industries Westlake Village CA	818-991-8553
Supercon Inc Shrewsbury MA	617-842-0174

WIRE, MAGNET—NYLON

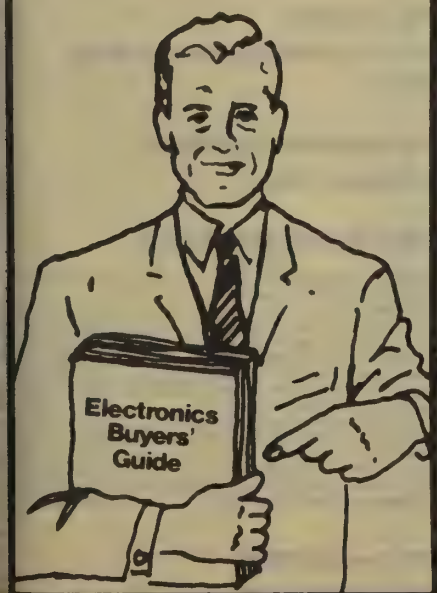
CONSOLIDATED ELECTRONIC WIRE & CABLE CORP FRANKLIN PARK IL 312-455-8830 ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY 718-657-4422	
Birnbach Co Inc Farmingdale NY	516-420-9800
Bridgeport Insulated Wire Co Bridgeport CT	203-333-3191
Chicago Magnet Wire Corp Elk Grove Village IL	312-397-7337
Consolidated Electronic Wire & Cable Corp Franklin Park IL	312-455-8830
Elektrisola Newport RI	401-846-5760
Essex Group Magnet Wire Products Ft Wayne IN	219-461-4000
General Elec Co Wire & Cable Dept Bridgeport CT	800-252-0900
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553
New England Electric Wire Corp Lisbon NH	603-838-6629
Rea Magnet Wire Co Inc Fort Wayne IN	219-424-4252
United Mineral & Chemical Corp New York NY	212-966-4330
Vertex Electronics Inc Farmingdale NY	516-293-9880
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, MAGNET—SELF-BONDING

KING WIRE & CABLE CORP JAMAICA NY 718-657-4422	
Birnbach Co Inc Farmingdale NY	516-420-9800
Bridgeport Insulated Wire Co Bridgeport CT	203-333-3191
Elektrisola Newport RI	401-846-5760
Engelhard Industries Iselin NJ	201-321-5900
Essex Group Magnet Wire Products Ft Wayne IN	219-461-4000
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553
New England Electric Wire Corp Lisbon NH	603-838-6629
Permaluster Inc Burbank CA	213-849-4543
Phelps Dodge Magnet Wire Co Ft Wayne IN	219-456-4444
Rea Magnet Wire Co Inc Fort Wayne IN	219-424-4252
United Mineral & Chemical Corp New York NY	212-966-4330
Viking Wire Co Inc Danbury CT	203-744-4600

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distributors!



WIRE, MAGNET—SOLDERS-STRIPPABLE

KING WIRE & CABLE CORP JAMAICA NY 718-657-4422 ADV PG 57	
Birnback Co Inc Farmingdale NY	516-420-9800
Bridgeport Insulated Wire Co Bridgeport CT	203-333-3191
Chicago Magnet Wire Corp	
Elk Grove Village IL	312-397-7337
Elektrisola Newport RI	401-846-5760
Essex Group Magnet Wire Products	
Fort Wayne IN	219-461-4000
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553
New England Electric Wire Corp Lisbon NH	603-838-6629
Permaluster Inc Burbank CA	213-849-4543
Phelps Dodge Magnet Wire Co	
Fort Wayne IN	219-456-4444
Rea Magnet Wire Co Inc Fort Wayne IN	219-424-4252
Viking Wire Co Inc Danbury CT	203-744-4600
Zenith Wire & Cable Corp Ronkonkoma NY	516-585-1444

WIRE, MAGNET-SQUARE OR RECTANGULAR

Essex Group Magnet Wire Products	
Fort Wayne IN	219-461-4000
General Elec Co Wire & Cable Dept	
Bridgeport CT	800-252-0900
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553
New England Electric Wire Corp Lisbon NH	603-838-6629
Permaluster Inc Burbank CA	213-849-4543
Phelps Dodge Magnet Wire Co	
Fort Wayne IN	219-456-4444
Rea Magnet Wire Co Inc Fort Wayne IN	219-424-4252

WIRE, MAGNET—TEFLON

KING WIRE & CABLE CORP JAMAICA NY 718-657-4422 ADV PG 57	
Birnback Co Inc Farmingdale NY	516-420-9800
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553
Phoenix Wire Inc South Hero VT	802-372-4561
Vertex Electronics Inc Farmingdale NY	516-293-9880

WIRE—MAGNETIC RECORDING

See Magnetic Wire—Recording

WIRE MARKERS

SAGER HINGHAM MA 617-749-6700 ADV PGS Green Pages/Footstrips	
Ackerman Gould Co Inc Bohemia NY	516-589-2000
Alpha Wire Corp Elizabeth NJ	201-925-8000
Autosplice Inc Woodside NY	718-429-0500
Blackburn Div FL Industries Sycamore IL	815-895-6501
Brady Co W H Industrial Prods Div	
Milwaukee WI	414-351-6630
Electromark Co Wolcott NY	315-594-8085
Electroprep Inc Cataumet MA	617-563-5559
Electrovert Inc Indus Elec & Elctn Prods	
Elmsford NY	914-592-7322
Electroweave Inc Worcester MA	617-752-8932
Formlabs Industrial Inks Inc Escondido CA	800-531-9358
GC Electronics Div Household Intl	
Rockford IL	815-968-9661
Gillies Co Inc Duncan M West Boylston MA	617-835-4445
GSI Corp Timonium MD	301-252-1768
Ideal Industries Inc Sycamore IL	815-895-5181
Macdonald & Co Glendale CA	818-241-1101
Manger Electric Co Inc Stamford CT	203-348-7761
Markel Corp Norristown PA	215-272-8960
Markem Corp Keene NH	603-352-1130
National Band & Tag Co Newport KY	606-261-2035
Newman Corp MM Marblehead MA	617-631-7100
Omega Leads Inc Santa Monica CA	213-346-6786
Panduit Corp Tinley Park IL	312-532-1800
PHI Conrac Machine Tool Westminster CA	714-894-4711
Phonix Terminal Blocks Inc Harrisburg PA	717-944-1300
Quantrac Corp Torrance CA	213-538-9800
Raychem Corp Menlo Park CA	415-361-3333
Remtek Corp Fremont CA	415-490-3999
Richco Plastic Co Chicago IL	312-539-4060
Sager Hingham MA	617-749-6700
Seton Name Plate Corp New Haven CT	203-488-0085
Sjoberg & Son Inc Cranston RI	401-461-8220
SPC Technology Bensenville IL	312-766-6711
Storm Products Co Inglewood CA	213-776-8141
Thomas & Betts Electrical Group Raritan NJ	201-685-1600
Topflight Corp York PA	717-843-9901
Tyton Corp Milwaukee WI	414-355-1130
Zippertubing Co Los Angeles CA	213-321-3901

WIRE MARKING MACHINES

See Machines

WIRE MARKING SERVICES

See Production Services—Wire Cutting, Stripping
& Marking

WIRE MEASURING MACHINES

See Machines—Wire Processing

WIRE PARTS

See Metal Parts

See Also Type of Parts Desired (Pins; Tube Parts;
Etc.)

WIRE PROCESSING MACHINES

See Machines

WIRE RECORDERS

See Magnetic Wire Recorders

WIRE REELS

See Cable & Wire Reels

WIRE, RESISTANCE—FILAMENT & HEATER

GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT CLEVELAND OH 216-266-2451 ADV PG 533	
KING WIRE & CABLE CORP JAMAICA NY 718-657-4422	
Carpenter Technology Corp Reading PA	215-371-2000
Cox & Company Inc New York NY	212-674-4727
Gen Elec Co Glass & Metallurgical Prods Dept	
Cleveland OH	216-266-2451
Hoskins Mfg Co Hamburg MI	313-231-1900
International Wire Prods Co Div Carlisle	
Wyckoff NJ	201-891-5800
Keith Co Inc Pico Rivera CA	213-685-3484
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473

WIRE, RESISTANCE—FUSE

Engelhard Industries Iselin NJ	201-321-5900
International Wire Prods Co Div Carlisle	
Wyckoff NJ	201-891-5800
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473

WIRE, RESISTANCE—POTENTIOMETER (PRECISION)

KING WIRE & CABLE CORP JAMAICA NY 718-657-4422	
Carpenter Technology Corp Reading PA	215-371-2000
Engelhard Industries Iselin NJ	201-321-5900
Hoskins Mfg Co Hamburg MI	313-231-1900
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
MWS Wire Industries Westlake Village CA	818-991-8553

WIRE, RESISTANCE—RESISTOR, BARE

CONSOLIDATED ELECTRONIC WIRE & CABLE CORP FRANKLIN PARK IL 312-455-8830 ADV PG 55	
KING WIRE & CABLE CORP JAMAICA NY 718-657-4422	
Carpenter Technology Corp Reading PA	215-371-2000
Consolidated Electronic Wire & Cable Corp	
Franklin Park IL	312-455-8830
Hoskins Mfg Co Hamburg MI	313-231-1900
International Wire Prods Co Div Carlisle	
Wyckoff NJ	201-891-5800
King Wire & Cable Corp Jamaica NY	718-657-4422
Magnet Wire Inc Corona NY	718-651-0900
Molecu-Wire Corp Farmingdale NJ	201-938-9473
York Wire Co Clifton NJ	201-472-8200

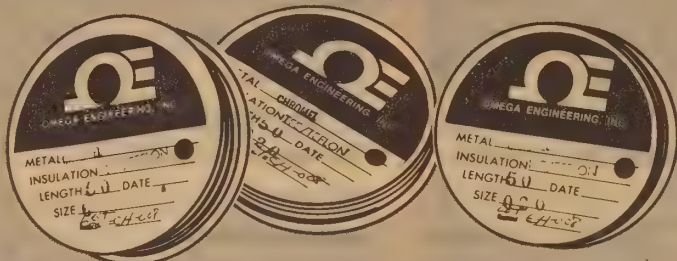
WIRE, RESISTANCE—RESISTOR, INSULATED

KING WIRE & CABLE CORP JAMAICA NY 718-657-4422 OMEGA ENGINEERING INC STAMFORD CT 203-359-1660 ADV PG Gatefold	
Carpenter Technology Corp Reading PA	215-371-2000
Coaxco Inc Tualatin OR	503-692-2900
King Wire & Cable Corp Jamaica NY	718-657-4422
Molecu-Wire Corp Farmingdale NJ	201-938-9473
Omega Engineering Inc Stamford CT	203-359-1660
Tensolite Co Div Carlisle Corp Buchanan NY	914-737-5600
Thermax Wire Corp Flushing NY	718-939-8300

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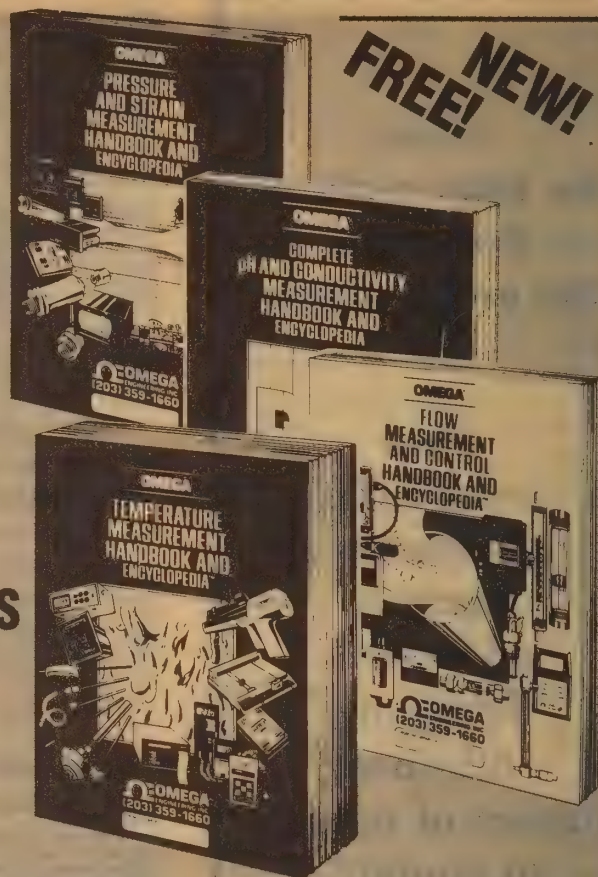
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WIRE SHIELDING

See Shielding—Braided; Shielding—Woven Wire

WIRE SPLICES

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Allied Systems Corp Greensboro NC.....	919-299-2294
AMP Products Corp Southeastern PA.....	215-647-1000
Autosplice Inc Woodside NY.....	718-429-0500
Electronized Chemicals Co Wilmington MA.....	617-657-8030
GC Electronics Div Household Intl.....	
Rochford IL.....	815-968-9661
Helenor Industries Inc Mt Vernon NY.....	914-667-3535
Ideal Industries Inc Sycamore IL.....	815-895-5181
Manger Electric Co Inc Stamford CT.....	203-348-7761
Panduit Corp Tinley Park IL.....	312-532-1800
Raychem Corp Menlo Park CA.....	415-361-3333
Reliable Electric/Utility Products.....	
Franklin Park IL.....	312-455-8010
Sjoberg & Son Inc Cranston RI.....	401-461-8220
Thomas & Betts Electrical Group Raritan NJ.....	201-685-1600

WIRE STRIPPERS

See Machines; Strippers; Tools

WIRE—SUPERCONDUCTIVE

Calmont Engineering & Electronics Inc	
Santa Ana CA.....	714-549-0336
MWS Wire Industries Westlake Village CA.....	818-991-8553
Permaluster Inc Burbank CA.....	213-849-4543
Supercon Inc Shrewsbury MA.....	617-842-0174
Tensolite Co Div Carlisle Corp Buchanan NY.....	914-737-5600

WIRE—THERMOCOUPLE

MANHATTAN ELECTRIC CABLE CORP	
RYE NY.....	609-455-8530
ADV PG 58	
OMEGA ENGINEERING INC	
STAMFORD CT.....	203-359-1660
ADV PGS 540, Gatefold	
Ainor Instrument Co Skokie IL.....	312-647-7866
Alpha Wire Corp Elizabeth NJ.....	201-925-8000
Amperex Electronic Corp Hicksville Div	
Hicksville NY.....	516-931-6200
Anasco Corp Wakefield MA.....	617-246-3300
ARI Industries Inc Addison IL.....	312-953-9100

Calmont Engineering & Electronics Inc

Santa Ana CA.....	714-549-0336
Carpenter Technology Corp Reading PA.....	215-371-2000
Champlain Cable Corp Winooski VT.....	802-655-2121
Colber Corp Irvington NJ.....	201-371-9500
Continental Wire & Cable York PA.....	717-792-2644
C-Temp Inc Anaheim CA.....	714-630-8451
Dearborn Wire & Cable Inc Wheeling IL.....	312-459-1000
Degussa Corp So Plainfield NJ.....	201-757-6500
Electronic Development Labs Inc	
Hauppauge NY.....	516-435-2808
Engelhard Industries Iselin NJ.....	201-321-5900
General Wire Products Inc Worcester MA.....	617-752-8260
Gordon Co Claud S Richmond IL.....	815-678-2211
Heraeus-Volkert Inc Queens Village NY.....	718-464-8400
Honeywell Process Control Div	
Ft Washington PA.....	215-641-3000
Hoskins Mfg Co Hamburg MI.....	313-231-1900
International Wire Prods Co Div Carlisle	
Wyckoff NJ.....	201-891-5800
Judd Wire Div High Voltage Engineering	
Turners Falls MA.....	413-863-4357
Kaman Instrumentation Corp	
Colorado Springs CO.....	303-599-1825
Keith Co Inc Pico Rivera CA.....	213-685-3484
Leads & Northrup Instruments	
North Wales PA.....	215-643-2000
Love Controls Corp Wheeling IL.....	312-541-3232
Manhattan Electric Cable Corp Rye NY.....	609-455-8530
Markel Corp Norristown PA.....	215-272-8960
Marlin Mfg Corp Cleveland OH.....	216-941-6200
Molecu-Wire Corp Farmingdale NJ.....	201-938-9473
MWS Wire Industries Westlake Village CA.....	818-991-8553
Nanmac Corp Framingham Centre MA.....	617-872-4811
Omega Engineering Inc Stamford CT.....	203-359-1660
Pirelli Cable Corp Special Cable Div	
Wallingford CT.....	203-265-5533
Pyco Inc Penndel PA.....	215-757-3704
Santa Fe Textiles Inc Santa Ana CA.....	714-751-7733
Sensortek Inc Clifton NJ.....	201-779-5577
Temp-Pro Inc Northampton MA.....	413-584-3165
Tensolite Co Div Carlisle Corp Buchanan NY.....	914-737-5600
Victor Corp West Warwick RI.....	401-821-7800

WIRE—TINSEL

SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
Gavitt Wire & Cable Co Inc Brookfield MA.....	617-867-6476
Lynn Electronics Corp Feasterville PA.....	215-355-8200
Magnet Wire Inc Corona NY.....	718-651-0900
Montgomery Co Windsor Locks CT.....	203-623-3336
New England Electric Wire Corp Lisbon NH.....	603-838-6629
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Tensolite Co Div Carlisle Corp Buchanan NY.....	914-737-5600
Victor Corp West Warwick RI.....	401-821-7800
Virginia Plastics Co Roanoke VA.....	703-985-3811

WIRE TWISTERS

LINEMASTER SWITCH CORP	
WOODSTOCK CT.....	203-974-1000
ADV PG 247	
Alphatron Ltd Haverhill MA.....	617-687-2371
Calmont Engineering & Electronics Inc	
Santa Ana CA.....	714-549-0336
Carpenter Mfg Co Inc Manlius NY.....	315-682-9176
Electroweave Inc Worcester MA.....	617-752-8932
Emporium Specialties Co Inc Austin PA.....	814-647-8661
Eraser Co Inc The Syracuse NY.....	315-454-3237
Jonard Industries Corp Tuckahoe NY.....	914-793-0700
Linemaster Switch Corp Woodstock CT.....	203-974-1000
Macdonald & Co Glendale CA.....	818-241-1101
Manger Electric Co Inc Stamford CT.....	203-348-7761

WIRE—WOVEN

**See Fabrics; Shielding; Silk Screens; Wiring
Matrixes**

WIRE-WRAPPING EQUIPMENT

See Machines; Tools

WIRING BACKPLANE FRAMES

Autosplice Inc Woodside NY.....	718-429-0500
dataCon Inc The Wire Wrappers	
Burlington MA.....	617-273-5800
E F E Labs Inc Horsham PA.....	215-672-2400
Elco Corp Newport Beach CA.....	714-476-0663
G M I Electronics Inc Plainfield NJ.....	201-755-5980
Hybloom Corp Littleton MA.....	617-486-0311
Malco Div Microdot Inc Montgomeryville PA.....	215-699-5373
Masterite Industries Corp Torrance CA.....	213-775-3471
Micro Metrics Inc Paterson NJ.....	201-345-9700
Paraplegics Mfg Co Inc Bensenville IL.....	312-625-7740
Precitact Inc Langhorne PA.....	215-757-1202
Scanbe Div Zero Corp El Monte CA.....	818-579-2300
Stanford Applied Engineering Santa Clara CA.....	408-988-0700
Wire Graphics Inc Farmingdale NY.....	516-293-1525

WIRING—BUS BARS

See Bus Bar Systems

WIRING DUCTS

Breeze-Illinois Inc Peoria IL.....	309-695-2511
DEK Inc St Charles IL.....	312-377-2575
ECP Corp Cleveland OH.....	216-391-0444
Electrovert Inc Indus Elec & Elctn Prods Elmsford NY.....	914-592-7322
Hoffman Engineering Co Div Fed Cartridge Corp Anoka MN.....	612-421-2240
Lynx Inc Leominster MA.....	617-537-6090
Panduit Corp Tinley Park IL.....	312-532-1800
SOS Lighting Devices Div MEMCO Philadelphia PA.....	215-423-7077
SPC Technology Bensenville IL.....	312-766-6711
Square D Co Palatine IL.....	312-397-2600
Wadsworth Electric Mfg Co Inc Covington KY.....	606-431-0900
Wiremold Co The West Hartford CT.....	203-233-6251
Zippertubing Co Los Angeles CA.....	213-321-3901

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Allied Systems Corp Greensboro NC.....	919-299-2294
Almor Co Inc Weymouth MA.....	617-331-8400
Alphatron Ltd Haverhill MA.....	617-687-2371
Altek Co Torrington CT.....	203-482-7626
American Electric Cable Co Holyoke MA.....	413-539-9893
Amphenol Products Lisle IL.....	312-983-3500
Apco Inc Mentor OH.....	216-352-8961
Aries Electronics Inc Frenchtown NJ.....	201-996-6841
Arkana Capital Corp dba Webber Cable & Elctns Cerritos CA.....	213-404-2602
ATACS Corp Oxford PA.....	215-932-3000
Autosplice Inc Woodside NY.....	718-429-0500
Breeze-Illinois Inc Peoria IL.....	309-695-2511
Cable Systems Inc Everett MA.....	617-389-7080
Champlain Cable Corp Winooski VT.....	802-655-2121
Circuit Assembly Corp Irvine CA.....	714-855-7887
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Component Mfg Svc Inc West Bridgewater MA.....	617-580-0111
Computer Cable & Products Inc Farmingdale NY.....	516-293-1610
Connector Systems Div BIW Santa Rosa CA.....	707-523-2300
Control Technology Corp Hopkinton MA.....	617-435-9595
C-W Industries Southampton PA.....	215-355-7080
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Deca Mfg Co Inc Lexington OH.....	419-884-0071
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Eastern Electronics Mfg Corp East Hartford CT.....	203-528-9821
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EIS Wire & Cable South Hadley MA.....	413-536-0152
Electro Cords Div Middlebury IN.....	219-825-9466
Electroprep Inc Cataumet MA.....	617-563-5559
Electrowave Inc Worcester MA.....	617-752-8932
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Fema Electronics Corp East Brunswick NJ.....	201-238-1223
Gavitt Wire & Cable Co Inc Brookfield MA.....	617-867-6476
Glenair Inc Glendale CA.....	818-247-6000
G M I Electronics Inc Plainfield NJ.....	201-755-5980
Grueman Electronics Systems Div Great River NY.....	516-435-6000
GSI Corp Timonium MD.....	301-252-1768
Harris Corp Govt Support Sys Div Syosset NY.....	516-364-0400
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IEC Electronics Corp Newark NJ.....	315-331-7742
JPM Co Lewisburg PA.....	717 523-1101
Kinetic Cable Co Garden Grove CA.....	714-638-1442
Kulka Smith Inc Manasquan NJ.....	201-223-9400
Leecraft Mfg Co Inc Long Island City NY.....	718-392-8800
Light Fabrications Inc Rochester NY.....	716-235-6310
Lynn Electronics Corp Feasterville PA.....	215-355-8200
Malco Div Microdot Inc Montgomeryville PA.....	215-699-5373
Manage Inc Chicopee MA.....	413-598-8204
Manger Electric Co Inc Stamford CT.....	203-348-7761
Masterite Industries Corp Torrance CA.....	213-775-3471
Methode Electronics Inc Chicago IL.....	312-867-9600
Micro Metrics Inc Paterson NJ.....	201-345-9700
Micrometric Products Div Austin TX.....	512-834-1800
Mutron Corp Brockton MA.....	617-364-2442
National Telephone & Elctns Inc Miami FL.....	305-592-0551
Newman Corp MM Marblehead MA.....	617-631-7100
Olympic Wire & Cable Corp Fairfield NJ.....	201-227-7996
Omega Leads Inc Santa Monica CA.....	213-346-6786
Panduit Corp Tinley Park IL.....	312-532-1800
Paraplegics Mfg Co Inc Bensenville IL.....	312-625-7740
Projects Unlimited Inc Dayton OH.....	513-890-1918
Raven Industries Inc Sioux Falls SD.....	605-336-2750
Raychem Corp Menlo Park CA.....	415-361-3333
Rectico Inc Fairfield NJ.....	201-575-0009
Revere Corp of America Wallingford CT.....	203-269-7701
Risk Industries Inc George Kimball NE.....	308-235-4645
Rowe Industries Inc Toledo OH.....	419-729-9761
Sager Hingham MA.....	617-749-6700
Sag Harbor Industries Inc Sag Harbor NY.....	516-725-0440
Santa Fe Textiles Inc Santa Ana CA.....	714-751-7733
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Sittler Corp Chicago IL.....	312-733-4616
SOS Lighting Devices Div MEMCO Philadelphia PA.....	215-423-7077
Spectra-Strip Operations Garden Grove CA.....	714-892-3361
Storm Products Co Inglewood CA.....	213-776-8141

Strandberg Engineering Labs Inc Greensboro NC.....	919-274-3775
Support Systems Intl Cables & Access Div Richmond CA.....	415-234-9090
Techrond Corp of America Muskegon MI.....	616-744-1663
Telecommunication Devices Inc Downers Grove IL.....	312-971-3460
Time Zero Corp Clifton NJ.....	201-340-0400
Transducer Systems Inc Kulpville PA.....	215-256-4611
TRW Connector Div Elk Grove Village IL.....	312-981-6000
Ultra Products Manitou Beach MI.....	517-547-3161
Victor Corp West Warwick RI.....	401-821-7800
V I P Industries Inc Paterson NJ.....	201-345-5800
Woven Electronics Corp Mauldin SC.....	803-963-5131
Zenith Wire & Cable Corp Ronkonkoma NY.....	516-585-1444
Zippertubing Co Los Angeles CA.....	213-321-3901

WIRING HARNESS BOARDS (WITH
CONNECTORS & LIGHTS OR OTHER
CHECKOUT AIDS)

Abbott & Co Marion OH.....	614-382-8212
Apco Inc Mentor OH.....	216-352-8961
Astrolab Inc Warren NJ.....	201-560-3800
Cirris Systems Corp Salt Lake City UT.....	801-466-6600
Connector Systems Div BIW Santa Rosa CA.....	707-523-2300
Datsan Systems Inc Palisades Park NJ.....	201-461-3337
Fema Electronics Corp East Brunswick NJ.....	201-238-1223
Harris Corp Govt Support Sys Div Syosset NY.....	516-364-0400
Hollex Inc Melrose MA.....	617-665-2413
IEC Electronics Corp Newark NJ.....	315-331-7742
Leecraft Mfg Co Inc Long Island City NY.....	718-392-8800
Macdonald & Co Glendale CA.....	818-241-1101
Magnum Electric Erie MI.....	313-848-2555
Micro Metrics Inc Paterson NJ.....	201-345-9700
National Telephone & Elctns Inc Miami FL.....	305-592-0551
Panduit Corp Tinley Park IL.....	312-532-1800
Techrond Corp of America Muskegon MI.....	616-744-1663
Thomas & Betts Electrical Group Raritan NJ.....	201-685-1600
Ultra Products Manitou Beach MI.....	517-547-3161

WIRING HARNESSES

ALMOR CO INC WEYMOUTH MA.....	617-331-8400
ADV PG 52	
ELECTRONIC CRYSTALS CORP KANSAS CITY KS.....	913-262-1274
PEERLESS RADIO CORP LYNNBROOK NY.....	516-593-2121
ADV PGS Green Pages/Footstrips	
SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
Abbott & Co Marion OH.....	614-382-8212
Abilities Inc Albertson NY.....	516-PIT-5400
Abrams Instrument Corp Lansing MI.....	517-332-6405
Aircraft & Electronic Specialties Inc Plainfield IN.....	317-272-2551
Allied Systems Corp Greensboro NC.....	919-299-2294
Almor Co Inc Weymouth MA.....	617-331-8400
Alphatron Ltd Haverhill MA.....	617-687-2371
American Electric Cable Co Holyoke MA.....	413-539-9893
American Electric Cordsets Bensenville IL.....	312-595-3900
American Plasticscraft Co Chicago IL.....	312-722-7727
Amphenol Products Lisle IL.....	312-983-3500
Apco Inc Mentor OH.....	216-352-8961
Aries Electronics Inc Frenchtown NJ.....	201-996-6841
Autosplice Inc Woodside NY.....	718-429-0500
Breeze-Illinois Inc Peoria IL.....	309-695-2511
Champlain Cable Corp Winooski VT.....	802-655-2121
Circuit Assembly Corp Irvine CA.....	714-855-7887
Cirris Systems Corp Salt Lake City UT.....	801-466-6600
Connector Systems Div BIW Santa Rosa CA.....	707-523-2300
Control Technology Corp Hopkinton MA.....	617-435-9595
Cooner Wire Co Chatsworth CA.....	818-882-8311
Corlund Electronics Corp Newbury Park CA.....	805-499-6877
Custom Colis Inc Alcester SD.....	605-934-2460
Datsan Systems Inc Palisades Park NJ.....	201-461-3337
Datafran Labs Inc Sussex NJ.....	914-856-4313
Deca Mfg Co Inc Lexington OH.....	419-884-0071
Diversified Traffic Prods Inc Mercury Elctns Div York PA.....	717-854-9557
Dowty Electronics Co Brandon VT.....	802-247-6811
Eastern Electronics Mfg Corp East Hartford CT.....	203-528-9821
E F E Labs Inc Horsham PA.....	215-672-2400
EIS Wire & Cable South Hadley MA.....	413-536-0152
Electro Cords Div Middlebury IN.....	219-825-9466
Electronic Crystals Corp Kansas City KS.....	913-262-1274
Electroprep Inc Cataumet MA.....	617-563-5559
Electrovert Inc Indus Elec & Elctn Prods Elmsford NY.....	914-592-7322
Electrowave Inc Worcester MA.....	617-752-8932
ELMA Div Sandberg Ind Inc Irvine CA.....	714-261-9473
Estes Engineering Co Port Angeles WA.....	206-457-0904
Gavitt Wire & Cable Co Inc Brookfield MA.....	617-867-6476
G S M Electronics Inc Plainfield NJ.....	201-755-5980
GSI Corp Timonium MD.....	301-252-1768
Harris Corp Govt Support Sys Div Syosset NY.....	516-364-0400
Hollex Inc Melrose MA.....	617-665-2413
Hughes Electronics Products Corp Livonia MI.....	313-427-8310
ICore International Inc Sunnyvale CA.....	408-732-5400
IEC Electronics Corp Newark NJ.....	315-331-7742
Jersey Technical Electronics Inc Middlesex NJ.....	201-469-8160
Jetrionics Co Div J L Hall Co Inc Santa Rosa CA.....	707-544-2436
Kulka Smith Inc Manasquan NJ.....	201-223-9400
Lamtech Electronics Inc Garland TX.....	214-272-3504
Leecraft Mfg Co Inc Long Island City NY.....	718-392-8800
Manage Inc Chicopee MA.....	413-598-8204
Manger Electric Co Inc Stamford CT.....	203-348-7761
Masterite Industries Corp Torrance CA.....	213-775-3471
Methode Electronics Inc Chicago IL.....	312-867-9600
Micro Metrics Inc Paterson NJ.....	201-345-9700

Moore Systems-Stitchweld Corp Chatsworth CA.....	818-882-7700
Mutron Corp Brockton MA.....	617-364-2442
Omega Leads Inc Santa Monica CA.....	213-346-6786
Pacific Electricord Co Gardena CA.....	213-532-6600
Panduit Corp Tinley Park IL.....	312-532-1800
Paraplegics Mfg Co Inc Bensenville IL.....	312-625-7740
Peerless Radio Corp Lynbrook NY.....	516-593-2121
Projects Unlimited Inc Dayton OH.....	513-890-1918
Raven Industries Inc Sioux Falls SD.....	605-336-2750
Raychem Corp Menlo Park CA.....	415-361-3333
Rectico Inc Fairfield NJ.....	201-575-0009
Risk Industries Inc George Kimball NE.....	308-235-4645
Rowe Industries Inc Toledo OH.....	419-729-9761
Sag Harbor Industries Inc Sag Harbor NY.....	516-725-0440
Santa Fe Textiles Inc Santa Ana CA.....	714-751-7733
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Sittler Corp Chicago IL.....	312-733-4616
SPC Technology Bensenville IL.....	312-766-6711
Spectra-Strip Operations Garden Grove CA.....	714-892-3361
Storm Products Co Inglewood CA.....	213-776-8141
Strandberg Engineering Labs Inc Greensboro NC.....	919-274-3775
Support Systems Intl Cables & Access Div Richmond CA.....	415-234-9090
Techrond Corp of America Muskegon MI.....	616-744-1663
Telecommunication Devices Inc Downers Grove IL.....	312-971-3460
T-F Electronics Inc Austin TX.....	512-836-7323
Thomas & Betts Electrical Group Raritan NJ.....	201-685-1600
Transducer Systems Inc Kulpville PA.....	215-256-4611
TRW Connector Div Elk Grove Village IL.....	312-981-6000
Ultra Products Manitou Beach MI.....	517-547-3161
Victor Corp West Warwick RI.....	401-821-7800
V I P Industries Inc Paterson NJ.....	201-345-5800
Zippertubing Co Los Angeles CA.....	213-321-3901

WIRING HARNESS LACES

See Cords—Lacing

WIRING—PRINTED

See Printed Circuits

WIRING SERVICES

See Cable Assemblies; Production Services;

Wiring Harnesses

WORD GENERATORS

Cognitronics Corp Stamford CT.....	203-327-5307
Dataprobe Inc Palisades Park NJ.....	201-947-9500
Digitech Industries Inc Ridgfield CT.....	203-438-3731
Genstar Rental Electronics Inc Woodland Hills CA.....	818-887-4000
Hewlett-Packard Palo Alto CA.....	415-857-8000
Interface Technology Glendora CA.....	818-914-2741
Leasametric Inc Foster City CA.....	415-574-4441
Pulse Instruments Co Torrance CA.....	213-515-5330
Step Engineering Sunnyvale CA.....	408-733-7837
Tau-Tron Inc Westford MA.....	617-692-5100
Versitron Div Keene Corp Washington DC.....	202-722-8600

WORKBENCHES

See Benches & Stools

WRAPPINGS—CABLE

MEA DIV UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY.....	607-772-7563
UNIVERSAL INSTRUMENTS CORP BINGHAMTON NY.....	607-775-1102
ZEUS INDUSTRIAL PRODUCTS INC RARITAN NJ.....	201-526-0800
Amrad Div Transcon Mfg Co Ft Smith AR.....	501-452-3987
Almont Engineering & Electronics Inc Santa Ana CA.....	714-549-0336
Chase & Sons Inc Randolph MA.....	617-963-2600
Chemical Fabrics Corp Merrimack NH.....	603-424-9000
Chomerics Inc Woburn MA.....	617-935-4850
Electrovert Inc Indus Elec & Elctn Prods Elmsford NY.....	914-592-7322
MEA Div Universal Instruments Corp Binghamton NY.....	607-772-7563
Newman Corp MM Marblehead MA.....	617-631-7100
Nitto Denko America Inc Port Washington NY.....	516-484-9700
Panduit Corp Tinley Park IL.....	312-532-1800
Remtek Corp Fremont CA.....	415-490-3999
Richco Plastic Co Chicago IL.....	312-539-4060
SOS Lighting Devices Div MEMCO Philadelphia PA.....	215-423-7077
Tensolite Co Div Carlisle Corp Buchanan NY.....	914-737-5000
Tyton Corp Milwaukee WI.....	414-355-1130
Universal Instruments Corp Binghamton NY.....	607-775-1102
Zeus Industrial Products Inc Raritan NJ.....	201-526-0800
Zippertubing Co Los Angeles CA.....	213-321-3901

WWW RECEIVERS

See Receivers—Radio Communications

XEROGRAPHIC EQUIPMENT

See Cameras—Electrophotographic;

Machines—Copying

X-RAY EQUIPMENT—DIFFRACTION

Alvord Systems Inc Clairton PA.....	412-233-3910
Andonian Cryogenics Inc Newtonville MA.....	617-969-8010
EG & G Ortec Oak Ridge TN.....	615-482-4411
Polaroid Corp Cambridge MA.....	617-577-2000

**X-RAY EQUIPMENT—IMAGE
INTENSIFIERS**

Aristo Grid Lamp Products Inc	
Port Washington NY.....	516-944-3030
Hamamatsu Corp Middlesex NJ.....	201-469-6640
Spellman High Voltage Electronics Corp	
Plainview NY.....	516-349-8686
Thomson-CGR Medical Corp Columbia MD.....	301-964-6600

X-RAY EQUIPMENT—INDUSTRIAL

Advanced Research & Applications Corp	
Sunnyvale CA.....	408-733-7780
American Science & Engineering Inc	
Cambridge MA.....	617-868-1600
Aristo Grid Lamp Products Inc	
Port Washington NY.....	516-944-3030
Aydin Radar & EW Div San Jose CA.....	408-629-1100
Columbia Scientific Industries Corp Austin TX.....	512-258-5191
Cooper Industries Arrow Hart Hartford CT.....	203-249-8471
Hewlett-Packard Palo Alto CA.....	415-857-8000
Kevelex Corp X-Ray Tube Div Scotts Valley CA.....	408-438-5940
Magnaflex Corp Chicago IL.....	312-867-8000
Polaroid Corp Cambridge MA.....	617-577-2000
Pulsar Products Inc Union City CA.....	415-487-5400
Radiation Dynamics Inc Melville NY.....	516-752-1660
RIL Electronics Inc Warrington PA.....	215-343-5075
Spellman High Voltage Electronics Corp	
Plainview NY.....	516-349-8686
Twin City International Inc Amherst NY.....	716-691-8855

X-RAY EQUIPMENT—MEDICAL

American Science & Engineering Inc	
Cambridge MA.....	617-868-1600
Blu-Ray Inc Essex CT.....	203-787-0141
Capintec Instruments Inc Ramsey NJ.....	201-825-9500
Eimac Div Varian Associates San Carlos CA.....	415-592-1221
Hewlett-Packard Palo Alto CA.....	415-857-8000
Polaroid Corp Cambridge MA.....	617-577-2000
Spectronics Corp Westbury NY.....	516-333-4840
Spellman High Voltage Electronics Corp	
Plainview NY.....	516-349-8686
Thomson-CGR Medical Corp Columbia MD.....	301-964-6600

X-RAY TUBES*See Tubes—X-Ray***X-Y RECORDERS***See Recorders—Graphic**See Also Computer Output Plotters***YIG (YTTRIUM-IRON GARNET)***See Garnet; Ferrite Parts—Microwave***YOKES, DEFLECTION—OSCILLOSCOPE**

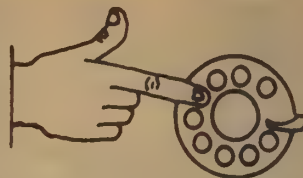
THOMSON COMPONENTS MOSTEK CORP PASSIVE COMPS DIV WOODLAND HILLS CA.....	818-887-1010
Amperex Electronic Corp Smithfield RI.....	401-762-3800
CELCO (Constantine Engineering Labs Co)	
Mahwah NJ.....	201-327-1123
Panasonic Co Electronic Components Div	
Secaucus NJ.....	201-348-5200
Penn Transformer Co Wingate PA.....	814-355-1521
Philips Electronic Comps & Matis Div	
Eindhoven Netherlands.....	040791111
Syntronic Instruments Inc Addison IL.....	312-543-6444
Television Labs Wauconda IL.....	312-763-3800
Thomson Components Mostek Corp Passive Comps Div	
Woodland Hills CA.....	818-887-1010
Thordarson Meissner Inc Mt Carmel IL.....	618-262-5121
Thorn EMI Gencom Inc Fairfield NJ.....	201-575-5586

YOKES, DEFLECTION—RADAR PPI

THOMSON COMPONENTS MOSTEK CORP PASSIVE COMPS DIV WOODLAND HILLS CA.....	818-887-1010
CELCO (Constantine Engineering Labs Co)	
Mahwah NJ.....	201-327-1123
Discom Display Components Inc	
Westford MA.....	617-692-6000
Penn Transformer Co Wingate PA.....	814-355-1521
Syntronic Instruments Inc Addison IL.....	312-543-6444
Thomson Components Mostek Corp Passive Comps Div	
Woodland Hills CA.....	818-887-1010
Thorn EMI Gencom Inc Fairfield NJ.....	201-575-5586

YOKES, DEFLECTION—TV

SHOKAI FAR EAST LTD HARTSDALE NY.....	914-681-0700
THOMSON COMPONENTS MOSTEK CORP PASSIVE COMPS DIV WOODLAND HILLS CA.....	818-887-1010
ATV Research Inc Dakota City NE.....	402-987-3771
CELCO (Constantine Engineering Labs Co)	
Mahwah NJ.....	201-327-1123
Panasonic Co Electronic Components Div	
Secaucus NJ.....	201-348-5200
Penn Transformer Co Wingate PA.....	814-355-1521
Shokai Far East Ltd Hartsdale NY.....	914-681-0700
Television Labs Wauconda IL.....	312-763-3800
Thomson Components Mostek Corp Passive Comps Div	
Woodland Hills CA.....	818-887-1010
Thordarson Meissner Inc Mt Carmel IL.....	618-262-5121
Thorn EMI Gencom Inc Fairfield NJ.....	201-575-5586
Zenith Electronics Corp Rauland Div	
Melrose Park IL.....	312-345-4700

YTTRIUM*See Rare Earths***YTTRIUM—IRON OXIDE***See Garnet; Ferrite Parts—Microwave***ZENER DIODES***See Diodes***ZINC***See Metals***ZINC PLATING***See Production Services—Plating***ZIRCON***See Crystals***ZIRCON CERAMICS***See Ceramics***ZIRCONIUM***See Metals; Wire—Bare*

**“I’ve got the
company name—
now I need
the address
and
a person
to contact.”**



**Want
a company’s
latest catalog?**

**Look
in the
white pages
and order
in seconds
with the
postpaid
reply card.**

**Look
in the
GREEN PAGES
of this
book.**

**Electronics
Buyers’
Guide**

Electronics **BUYERS' GUIDE** **1986-87**

DIRECTORY OF CATALOGS

How to send for catalogs:

1. Catalogs are grouped by product classification in alphabetical order as follows:
Active Components—Discrete Semiconductors & Electron Tubes
Active Components—Hybrid Circuits
Active Components—Integrated Circuits
Active Components—Optoelectronics
Communications & Microwave Equipment
Computers & Peripheral Equipment
Controls & Display Equipment
Interconnection & Packaging Components—Connectors
Interconnection & Packaging Components—Hardware, Chassis, Enclosures
Interconnection & Packaging Components—Wire, Cable, Printed Circuits
Materials
Passive Electronics Components—Capacitors
Passive Electronic Components—Filters, Crystals, Magnetic Components
Passive Electronic Components—Resistors—Fixed & Variable
Passive Electronic Components—Switches & Relays
Power Supplies & Sources
Production Equipment
Test & Measuring Equipment
2. All product classifications are indexed alphabetically at top of each page.
3. Catalogs within a product classification are listed by company alphabetically. A reader service number is supplied for each catalog.
4. Six post-paid reader service cards are bound in at the conclusion of this section. Simply circle the numbers you want at any time, fill in your name, address, and industry classification and mail.

ACTIVE COMPONENTS— DISCRETE SEMICONDUCTORS & ELECTRON TUBES

- 1 **AEG Corporation**
Cathode Ray Tubes
- 2 **AEG Corporation**
Gate Turn-Off Thyristors
- 3 **Allen-Bradley Co**
*Power Semiconductor Selector
Guide-PTC 102-51*
- 4 **Alpha Electronics Inc**
Electron Tube Guide
- 5 **Alpha Electronics Inc**
Special Purpose & Receiving Tubes
- 6 **American Microsemiconductor Inc**
Capability Brochure
- 7 **American Microsemiconductor Inc**
Price List
- 8 **D.A.T.A. Inc**
*Discrete Semiconductor
Replacements*
- 9 **Edal Industries Inc**
Bridges—B-144
- 10 **Edal Industries Inc**
High Voltage—B138
- 11 **Edal Industries Inc**
Power—B135
- 12 **Edal Industries Inc**
Diodes—B108
- 13 **Edal Industries Inc**
Selenium—B101
- 14 **Electronic Devices Inc**
*Bridge Rectifiers, Diodes, HV
Assemblies*
- 15 **Electronic Devices Inc**
MIL Spec Rectifier Assemblies
- 16 **ELEVAM Corp**
*Neon Glow, Xenon Flash & Rare
Gas Discharge Lamps*
- 17 **ELEVAM Corp**
Surge Absorbable Discharge Tubes
- 18 **ELEVAM Corp**
*Hot Cathode Fluorescent Color
Light*
- 19 **ELEVAM Corp**
*Cold Cathode Fluorescent Color
Light/UV Light*
- 20 **Fagor Electronic Components Inc**
Diodes
- 21 **Fagor Electronic Components Inc**
Rectifiers
- 22 **Fagor Electronic Components Inc**
Transient Suppressors
- 23 **ILC Data Device Corp**
Product Catalog
- 24 **International Components Corp**
Window on the World of Diodes
- 25 **International Components Corp**
Electron Tubes

- 26 **International Rectifier Semiconductor**
*1986/87 Product Digest of Power
Semiconductors*
- 27 **ISKRA Electronics Inc**
Diodes & Rectifiers
- 28 **Mercury Electronic Co**
Electron Tubes
- 29 **Microsemi Corp**
Data Book
- 30 **Oscillatek Div K & L Microwave**
*Temperature Compensated Crystal
Oscillators*
- 31 **Philips ECG Inc**
Master Semiconductor Guide
- 32 **Philips Electronics Ltd**
Semiconductor Short Form
- 33 **Powerex Inc (Joint Venture W, GE,
Mitsubishi)**
Quick Reference Guide
- 34 **SADA Elettronica SpA**
*Epoxy Cases for Discrete
Semiconductors*
- 35 **Sager**
Semiconductors & Accessories
- 36 **Sanders Associates Inc**
Pulsed Laser Diodes & Accessories
- 37 **Solid State Electronics Corp**
Signal Converters
- 38 **Temtron Electronics Ltd**
Camera, Transmitting, CRT Tubes
- 39 **Voltage Multipliers Inc**
Rectifier Assemblies
- 40 **Voltage Multipliers Inc**
High Voltage Rectifiers
- 41 **Voltage Multipliers Inc**
Voltage Multipliers

ACTIVE COMPONENTS—HYBRID CIRCUITS

- 42 **ACC Electronics**
Custom Thick Film Assemblies
- 43 **Aeroflex Labs Microelectronics Div**
Custom Hybrid Circuits
- 44 **Aeroflex Labs Microelectronics Div**
Custom Active Filters
- 45 **Aeroflex Labs Microelectronics Div**
*MIL-STD 1553 Data Bus
Components*
- 46 **Anderson Electronics Inc**
Custom Hybrid Networks
- 47 **Anderson Electronics Inc**
Clock Oscillators
- 48 **Bel Fuse Inc**
Active Delay Lines
- 49 **Data Delay Devices Inc**
Delay Lines-Digital

- 50 **Data Delay Devices Inc**
Pulse Generators
- 51 **Data Delay Devices Inc**
Pulse Discriminators
- 52 **Elgenco Inc**
Noise Source Modules
- 1080 **Fujitsu Components of America Inc**
Hybrid ICs
- 53 **Hytek Microsystems Inc**
Custom Thick Film Hybrid Circuits
- 54 **ILC Data Device Corp**
Short Form Catalog
- 55 **ILC Data Device Corp**
MIL-STD 1553 Designer's Guide
- 56 **ITT Components**
Clock Oscillators
- 57 **Micra Corp**
Facility Brochure
- 58 **Micra Corp**
New Standard Product Catalog
- 59 **Murata Erie North America Inc**
Oscillators
- 60 **Northwest Microcircuits**
Custom Hybrid Circuits
- 61 **Northwest Microcircuits**
Programmable Timers
- 62 **Oscillatek Div K & L Microwave**
Hybrid Clock Oscillators
- 63 **Oscillatek Div K & L Microwave**
Micro Electronic Sub-Assemblies
- 64 **Philips Electronics Ltd**
Semiconductor Short Form
- 65 **RCD Components Inc**
Hybrid Circuits
- 66 **Research Instrument Co Inc**
Chip Carrier Sealing
- 67 **Research Instrument Co Inc**
*Glass Sealing with the RICO
Thermal Conductivity Sealer*
- 68 **Solid State Electronics Corp**
Freqmeters
- 69 **TDK Corp**
DC to DC Converters
- 70 **TDK Corp**
Digital Audio Low Pass Filters
- 71 **TDK Corp**
Delay Lines
- 72 **Unitrode Corp**
Linear ICs
- 73 **Vectron Labs Inc**
Crystal Oscillators—Hybrid

ACTIVE COMPONENTS— INTEGRATED CIRCUITS

- 74 **Alpha Electronics Inc**
IC Catalog

- 75 **AT&T Components & Electronic Systems**
Communications Devices Data Book CA86-17SMOS
- 76 **AT&T Components & Electronic Systems**
Low Power Schottky Devices CA86-11DBIP
- 77 **D.A.T.A. Inc**
IC Replacements
- 78 **ILC Data Device Corp**
MIL-STD-1533 Designer's Guide
- 79 **International Instrumentation Inc**
Bug Box IC Storage Retrieval Systems
- 80 **Oshino Electric Lamp Works Ltd**
Sub-Miniature Incandescent Lamps
- 81 **Oshino Electric Lamp Works Inc**
LEDs
- 82 **Oshino Electric Lamp Works Ltd**
Photo Couplers
- 83 **Sager**
Integrated Circuits
- 84 **Temtron Electronics Ltd**
ICs & Semiconductors
- 85 **TTE Inc**
Active Filters
- 86 **TTE Inc**
Programmable Filters

- 98 **Excel Technology Intl Corp**
LCD's—Liquid Crystal Displays
- 99 **Excel Technology Intl Corp**
Dot Matrix Liquid Crystal Display Modules
- 1078 **General Instruments/Optoelectronics Div**
Optoisolators
- 100 **Optical Data Systems Inc**
Fiber Optic Components
- 101 **Philips ECG Inc**
Optoelectronics Catalog
- 102 **Philips Electronics Ltd**
Semiconductor Short Form
- 103 **Sager**
Optoelectronics
- 104 **Sanders Associates Inc**
Infrared Detectors & Lasers
- 105 **Silonex Inc**
Photocells
- 106 **Silonex Inc**
Silicon Cells
- 107 **Silonex Inc**
Silicon Planar Photodiodes
- 108 **Silonex Inc**
Silicon Multi-Element Arrays
- 109 **Sylvania Miniature Lighting**
Miniature Sealed Beam Lamps #205
- 110 **Wamco Inc**
Light Emitting Diodes—Discrete & Based

- 120 **Ehrhorn Technological Operations**
Amplifiers—RF, Power
- 121 **Electronic Navigation Industries**
RF Amplifiers
- 122 **General Microwave Corp**
Microwave Components & Instruments
- 123 **General Microwave Corp**
PIN Diode Switches
- 124 **M/A-COM Microwave Power Devices Inc**
*AB Band 1000 watt, 850-1450MHz
AN/ALT USN Airborne Jammer Systems*
- 125 **M/A-COM Microwave Power Devices Inc**
*CD Band 1000 watt, 100-500MHz
AN/ALT USN Airborne Jammer Systems*
- 126 **M/A-COM Microwave Power Devices Inc**
EWAL/PWAL Class AB Linear 1.5-1450MHz
- 127 **M/A-COM Microwave Power Devices Inc**
*UPLINK Transmitter
1750-1850MHz, Radar Transmitter
1370-1400MHz*
- 128 **M/A-COM Microwave Power Devices Inc**
Update: RF/Microwave Power
- 129 **Mallory Components Div Emhart**
UHF & VHF Tuners
- 130 **Mallory Components Div Emhart**
Inductuners (Inductance Tuning)

ACTIVE COMPONENTS OPTOELECTRONICS

- 87 **AEG Corporation**
Optoelectronics Selection Guide
- 88 **AMP Inc**
Data Links for Fiberoptic Communication
- 89 **Andersen Laboratories Inc**
Acousto-Optic Modulators
- 90 **Andersen Laboratories Inc**
Acousto-Optic Modulator Driver
- 91 **AT&T Components & Electronic Systems**
*Quick Reference Guide to Lightwave Products
CA84-010DL*
- 92 **Clairex Electronics**
Photo Cell Design Manual
- 93 **Clairex Electronics**
Opto Isolator Design Folder
- 94 **Cord Electronics Inc**
Lamp & Lamp Assemblies
- 95 **D.A.T.A. Inc**
Optoelectronic Devices
- 96 **EG&G Vactec**
Optoelectronic Products—Rev D
- 97 **Ehrhorn Technical Operations**
Alpha Power Amplifiers

COMMUNICATIONS & MICROWAVE EQUIPMENT

- 111 **Andersen Laboratories Inc**
SAW Hybrid Oscillators & VCO's
- 112 **Andersen Laboratories Inc**
*SAW Dispersive & IMCON
Dispersive Delay Lines*
- 113 **Andersen Laboratories Inc**
*Pulse Expansion/Compression
Systems*
- 114 **Andersen Laboratories Inc**
Compressive IF Receivers
- 115 **Bird Electronic Corp**
*Coaxial Wattmeters, Monitors,
Attenuators, Loads, Switches*
- 116 **Bird Electronic Corp**
*Digital Directional Wattmeters—
50mW, 1/2-2300 MHz*
- 117 **CML Macarr Div**
*E270B—Public Address System-
Shipboard*
- 118 **Cord Electronics Inc**
Microphones & Cartridges
- 119 **D.A.T.A. Inc**
Microwave Devices
- 131 **MG Electronics**
OEM Loudspeakers
- 132 **MG Electronics**
Speakers & Parts
- 133 **MG Electronics**
*Security Products Paging Speakers
& Sirens*
- 134 **Microwave Control Div**
*RF Amplifier System, Model S1027
Product Data Sheet 484B*
- 135 **Microwave Control Div**
*RF Amplifier System, Model S1015
Product Data Sheet 484A*
- 136 **Optical Data Systems Inc**
Multiplexers
- 137 **Optical Data Systems Inc**
Modems
- 138 **Philips Electronics Ltd**
Semiconductor Short Form
- 139 **Radio Research Instrument Co**
Radio & RF Reference Guide
- 140 **Sanders Associates Inc**
*Microwave Components &
Subsystems*
- 141 **Solid State Electronics Corp**
Telemetry

- 142 **Temtron Electronics Ltd**
State/Studio Lamps/Broadcast
Products
- 143 **Vectron Labs Inc**
Low Noise Crystal Oscillators

COMPUTERS & PERIPHERAL
EQUIPMENT

- 144 **Abacus Controls Inc**
Uninterruptible Power Supplies
- 145 **Alps Electric USA Inc**
Computer Peripherals
- 146 **Alps Electric USA Inc**
Keyboards
- 147 **A P Circuit Corp**
Antialiasing Filters
- 148 **Astro-Med Inc**
Ticket Printers
- 149 **Bertan Associates Inc**
IEEE-488 Interface
- 150 **B-G Instruments Inc**
OEM Thermal Printer/Plotters
- 151 **Computer Conversions Corp**
Synchro Converters, Displays
- 152 **Connecticut microComputer Inc**
Data Acquisition Systems
- 153 **Control Technology Co Inc**
D C Power Amplifiers
- 154 **Eagle Magnetic Co Inc**
Magnetic Shielding for C&P
Equipment
- 155 **Fujitsu Components of America Inc**
Keyboards
- 156 **Fujitsu Components of America Inc**
Keycaps
- 157 **ILC Data Device Corp**
Product Catalog
- 158 **ILC Data Device Corp**
MIL-STD- 1533 Designer's Guide
- 159 **ILC Data Device Corp**
Short Form Catalog
- 160 **Indus-Tool**
Noise Filters
- 161 **International Microsystems Inc**
PROM Programmers
- 162 **Micro Parts Inc**
Chemically Etched Precision Metal
Parts
- 163 **Newport Electronics Inc**
820A Thermal Data Printer
- 164 **Newport Electronics Inc**
821/822 Alphanumeric Thermal
Printers
- 165 **Omega Engineering Inc**
Flow Measurement Control
Handbook & Encyclopedia

- 166 **Omega Engineering Inc**
pH & Conductivity Measurement
Handbook & Encyclopedia
- 167 **Omega Engineering Inc**
Pressure & Strain Measurement
Handbook & Encyclopedia
- 168 **Omega Engineering Inc**
Temperature Measurement
Handbook & Encyclopedia
- 169 **Optical Data Systems Inc**
Data Link & Local Area Networks
- 170 **Opto 22**
Microprocessor I/O Data Book
- 171 **Sager**
Custom Computer Cable
- 172 **SL Waber**
Sequential Switching Timer with
Surge & Noise Suppression
- 173 **Superior Electric Co**
AC Voltage Conditioning
Equipment
- 174 **Superior Electric Co**
Voltage Regulating Equipment
- 175 **Superior Electric Co**
Voltage Monitoring Equipment
- 176 **Temtron Electronics Ltd**
Display Monitors

CONTROLS & DISPLAY
EQUIPMENT

- 177 **APM Hexseal Corp**
Colored Silicone Filters for
Incandescent Mini Lamps
- 178 **Basler Electric Co**
Electro-Mechanical & Electronic
Controls
- 179 **BEI Motion Systems Inc**
Optical Encoder Design Guide
- 180 **BEI Motion Systems Inc**
Guide to Optical Shaft Encoders
- 181 **Bertan Associates Inc**
High Voltage CRT Power Supplies
- 182 **Canyon Electronics Inc**
Mini-Pak Readout Assemblies
- 183 **CML Macarr Div**
Public Address System—
Shipboard-E270B
- 184 **Computer Conversions Corp**
Synchro Converters/Displays/
Absolute Encoders
- 185 **Control Technology Co Inc**
Servo Control Systems
- 186 **Control Technology Co Inc**
Servo Indicators
- 187 **Control Technology Co Inc**
Resolver to Synchro Amplifiers
- 188 **Eagle Magnetic Co Inc**
Magnetic Shielding for Displays

- 1079 **Endicott Research Group Inc**
DC-DC Converters/DC-AC
Inverters for Displays
- 189 **Farrand Controls Div**
Analog to Digital Converter-
Model CVU
- 190 **Farrand Controls Div**
Digital Readouts Brochure
- 191 **Fujitsu Components of America Inc**
Keyboards
- 192 **Fujitsu Components of America Inc**
Keycaps
- 1081 **Fujitsu Components of America Inc**
Plasma Displays
- 193 **Handok California Co Ltd**
Liquid Crystal Segment, Character
& Graphic (DOT Matrix) Type
Display Modules
- 194 **Handok California Co Ltd**
Monochrome & Color Monitor with
CRT & Enclosure
- 195 **ILC Data Device Corp**
Product Catalog
- 1100 **International Instrumentation Inc.**
Bezels
- 196 **Itek Measurement Systems Div**
Absolute & Incremental Encoders
- 197 **Itek Measurement Systems Div**
Spacecraft Encoders
- 198 **Kavlico Corp**
Pressure Transducers
- 199 **Kin-Tronics Inc**
Monitors
- 200 **Maxwell Electronics**
Stepping Motor Controllers
- 201 **Measurement Systems Inc**
Positioning & Tracking Controls
- 202 **Measurement Systems Inc**
Miniature Joysticks
- 203 **Measurement Systems Inc**
Trackball Products
- 204 **Measurement Systems Inc**
Control Grids
- 205 **Newport Electronics Inc**
Q2000/Q9000 Modular Meter/
Controllers
- 206 **Newport Electronics Inc**
Short Form Catalog
- 207 **Omega Engineering Inc**
Flow Measurement & Control
Handbook & Encyclopedia
- 208 **Omega Engineering Inc**
pH & Conductivity Measurement
Handbook & Encyclopedia
- 209 **Omega Engineering Inc**
Temperature Measurement
Handbook & Encyclopedia
- 210 **Omega Engineering Inc**
Pressure & Strain Measurement
Handbook & Encyclopedia

- 211 **Paneltec Inc**
Control Panel Technology
- 212 **Quantem Corp**
Temperature Controllers
- 213 **Quantem Corp**
Digital Indicating Controllers
- 214 **RMF Products Inc**
Display Bezels
- 215 **SADA Elettronica SpA**
Lamps & Indicator Lights
- 216 **Sager**
Displays & Readouts
- 217 **Sager**
Lamps & Indicators
- 218 **Superior Electric Co**
Stepping Motors & Controls
- 219 **Superior Electric Co**
Controls—Single & Two Axis
- 220 **Superior Electric Co**
Motion Controls
- 221 **Temtron Electronics Ltd**
Programmable Controllers
- 222 **Wamco Inc**
Quartz Halogen Lamps & Hi D Lamps

INTERCONNECTION & PACKAGING COMPONENTS—CONNECTORS

- 223 **Almo Electronics Inc**
Connectors
- 224 **AMP Inc**
HDI 2 Piece PC Board Connector
- 225 **AMP Inc**
Latch Ribbon Cable Connection System
- 226 **AT&T Components & Electronic Systems**
Fastech Packaging System CA85-12INT
- 227 **Ceramaseal Div Clevepak Corp**
8605-Multi-Conductor Connectors, Vacuum, TC, Instrumentation
- 228 **Ceramaseal Div Clevepak Corp**
50-Ohm Coaxial Connectors—8308
- 229 **Ceramaseal Div Clevepak Corp**
7903—Thermocouple Feedthrust
- 230 **Concord Electronics Corp**
PC Jacks
- 231 **Connector Corp**
CRT Sockets
- 232 **Connector Corp**
Connectors
- 233 **Cord Electronics Inc**
Telephone Accessories
- 234 **Cord Electronics Inc**
Cable & Connectors

- 235 **Continental Connector Corp**
Commercial & Military Connectors
- 236 **Continental Connector Corp**
Printed Circuit Connectors MIL-C
- 237 **Continental Connector Corp**
Micro-Miniature Rectangular Connectors
- 238 **Continental Connector Corp**
Sub-Miniature Rectangular Connectors
- 239 **Continental Connector Corp**
Removable Wire Crimp Contact Connectors
- 240 **Continental Connector Corp**
Cardedge Connectors .100" Spacing
- 241 **Continental Connector Corp**
Cardedge Connectors .125" Spacing
- 242 **Continental Connector Corp**
Cardedge Connector .156" Spacing
- 243 **Continental Connector Corp**
Terminal Blocks
- 244 **D.A.T.A. Inc**
Connectors
- 245 **Eldre Corporation**
Power BUS, Power Distribution Bus Bars
- 246 **Electrical Products Sales Corp**
Terminals
- 247 **FIC Corp**
Terminal Blocks
- 248 **Fischer America Inc**
Precision, Swiss Made, Circular Connectors
- 1082 **Fujitsu Components of America Inc**
Connectors
- 249 **International Eyelets Inc**
Electronic Eyelet Products
- 250 **Keystone Electronics Corp**
Battery Holders, Clips & Connectors
- 251 **Lear Siegler Inc Elctn Instr Div**
Pin Bars
- 252 **Manhattan Electric Cable Corp**
RF Connectors
- 253 **Mark Eyelet Inc Sub AMP Inc**
Spring Sockets
- 254 **Micro Contacts Inc**
Precision Custom Precious & Base Metal Stampings
- 255 **Micro Contacts Inc**
Precision Custom Injection Molding/Insert Molding
- 256 **Micro Parts Inc**
Chemically Etched Precision Metal Parts
- 257 **Mill-Max Mfg Co**
Standard Products Catalog for Electronic Interconnect

- 258 **Mouser Electronics**
Electronics Purchasing Manual
- 259 **Mupac Corp**
Connectors
- 260 **Mupac Corp**
Sockets IC
- 261 **Mupac Corp**
IC Packaging Systems
- 262 **Omega Engineering Inc**
Temperature Measurement Handbook & Encyclopedia
- 263 **Peerless Radio Corp**
4th Edition Catalog
- 264 **Power Dynamics Inc**
IEC Power Connectors
- 265 **SADA Elettronica SpA**
Card Edge Connectors
- 266 **SADA Elettronica SpA**
IC Sockets
- 267 **Sager**
Connectors & Sockets
- 268 **Sager**
Terminals, Boards & Lugs
- 269 **Shokai Far East Ltd**
Electronic & Electromechanical Components
- 270 **Superior Electric Co The**
Binding Posts
- 271 **Superior Electric Co**
Connectors
- 272 **Tecknit**
ZEBRA Conductive Elastomeric Connectors
- 273 **Trompeter Electronics Inc**
MIL-STD 1553B & 1760 Military Digital Data Bus Update
- 274 **US Components Inc**
Engineered Electronic Connectors & Assemblies
- 275 **US Components Inc**
GR/RGR High Density Wrap/Crimp Connectors
- 276 **Zierick Mfg Corp**
Lugs, Clips, Solder & Solderless Connectors #30
- 277 **Zierick Mfg Corp**
Wiring Devices for Printed Circuit Boards
- 278 **Zierick Mfg Corp**
Strip Terminals for Automatic Applications
- 279 **AEG Corporation**
Fractional Horsepower Motors

INTERCONNECTION & PACKAGING COMPONENTS—HARDWARE, CHASSIS, ENCLOSURES, MOTORS & FANS

- 280 **AEG Corporation**
A Concept for Electronic Packaging Assembly
- 281 **Alco Electronic Products Inc**
Control Knobs
- 282 **Alexander Mfg Co**
Battery Holders
- 283 **Allen-Bradley Co**
Brushless DC Motors
- 284 **Aluminum Design Corp**
Aluminum Flux Dipped Brazed Structures
- 285 **Aluminum Design Corp**
Flux-Less Vacuum Brazed Products
- 286 **APM Hexseal Corp**
Self-Sealing Fasteners
- 287 **BEI Motion Systems Inc**
Brushless DC Motors & Actuators
- 288 **Bud Industries Inc**
Custom Built Enclosures #84
- 289 **Bud Industries Inc**
Guardian Carrying Cases
- 290 **Canon USA Inc Elctn Comps Div**
Subfractional HP DC Motors
- 291 **Canon USA Inc Elctn Comps Div**
Sub-Fractional HP DC Gearmotors
- 292 **Canon USA Inc Elctn Comps Div**
Sub-Fractional HP Brushless Motors
- 293 **Compac**
RFI/EMI Shielded Enclosures
- 294 **Concord Electronics Corp**
Chassis & Panel Hardware
- 295 **Concord Electronics Corp**
Panel Components
- 296 **EG&G Wakefield Engrg Co Components**
Aluminum Extrusions for Heat Sinks
- 297 **EG&G Wakefield Engrg Co Components**
Heat Sinks for Thermal Dissipation Less Than 10 Watts
- 298 **EG&G Wakefield Engrg Co Components**
Power Module Coolers
- 299 **Fuses Unlimited**
Fuseholders, Blocks & Clips
- 311 **Georator Corp**
Line Conditioners/Motor Generators
- 312 **Graphite Metallizing Corp**
DS-218 Graphalloy Brushes, Slip Rings & Assemblies
- 313 **Graphite Metallizing Corp**
DS-117 & DS-1001 Graphalloy Bushings, Pillow Blocks
- 314 **Graphite Metallizing Corp**
Brush Inquiry Form 109
- 315 **Graphite Metallizing Corp**
270 & 277 Miniature Bronze-Graphalloy Bushings
- 316 **Grayhill Inc**
Termination Hardware
- 300 **IMC Magnetics Corp**
Tubeaxial Fans—AC & DC (BOXER & FULMAR Models)
- 301 **IMC Magnetics Corp**
Vaneaxial Fans & Cooling Systems
- 303 **IMC Magnetics Corp**
SYNCHRON Synchronous Motors
- 304 **IMC Magnetics Corp**
DC Motors & Motor Encoders-WU1
- 305 **IMC Magnetics Corp**
ASTROSYN Stepping Motors-WA1
- 306 **IMC Magnetics Corp**
Stepping Motor Drive IC—WB1
- 307 **IMC Magnetics Corp**
TORMAX Steppers & Controls
- 308 **IMC Magnetics Corp**
AC & DC Tubeaxial Fans—NHL 14
- 1090 **IMC Magnetics Corp**
EB3 Centrifugal Blowers
- 1091 **IMC Magnetics Corp**
EF4 Fan Catalog (Propeller & Tubeaxial)
- 1092 **IMC Magnetics Corp**
EV4 Vaneaxial Fans
- 317 **International Eyelets Inc**
Electronic Eyelet Products
- 318 **Lear Siegler Inc Elctn Instr Div**
Pin Bars
- 319 **Mabuchi Motor America Corp**
Economy Series-Sub FHP Perm Mag Motors
- 320 **Mabuchi Motor America Corp**
Low Noise & Electronically Governed Series-Sub FHP DC Perm Mag Motors
- 321 **Mabuchi Motor America Corp**
Heavy Duty Series-Sub FHP DC Perm Mag Motors
- 322 **McLean Midwest Sub Zero Corp**
Air Conditioners for Electronic Enclosures
- 323 **McLean Midwest Sub Zero Corp**
Heat Exchangers for Electronic Enclosures
- 324 **Melcor-Materials Elctns Prods Corp**
Frigichip-Miniature Ceramic Modules
- 325 **Micro Parts Inc**
Chemically Etched Precision Metal Parts
- 326 **Miller Co Inc W A**
Stock—Cases-Cabinets-Enclosures
- 327 **Miller Co Inc W A**
Custom Built—Cases-Cabinets-Enclosures
- 328 **Mill-Max Mfg Co**
Standard Products Catalog for Electronic Connect
- 329 **Peerless Radio Corp**
4th Edition Catalog
- 330 **Power Dynamics Inc**
Knobs
- 331 **Power Dynamics Inc**
Battery Holders
- 332 **Premier Metal Products Co**
Distinctive Electronic Enclosures
- 333 **SADA Elettronica Spa**
Fuseholders
- 334 **Sager**
Enclosures
- 335 **Sager**
Motors & Fans
- 336 **Shinano Kenshi Corp**
Stepping Motors, DC
- 337 **Shinano Kenshi Corp**
Coreless Motors, DC
- 338 **Shinano Kenshi Corp**
Brushless Motors, DC
- 339 **Shinano Kenshi Corp**
Synchronous Motors, AC
- 340 **Shinano Kenshi Corp**
Geared Motors, AC
- 341 **Sigma Instruments Inc Motion Control**
Stepping Motors—MC224
- 342 **Sigma Instruments Inc Motion Control**
Sigmax Enhanced Motor—MC249
- 343 **Sigma Instruments Inc Motion Control**
Sigmax 3800 Ser Motor/Driver Packages—MC251, 252, 253
- 344 **Steward Mfg Co D M**
Insulators—Feed-Through & Standoff
- 345 **Superior Electric Co The**
Synchronous/Stepping Motors & Controls
- 346 **Tran-Tec Corp**
Semiconductor Coolers
- 347 **Unicorp Inc**
H-1B—Standoffs & Spacers-Threaded & Unthreaded
- 348 **Unicorp Inc**
H-2B—Precision Male to Female Standoffs
- 349 **Unicorp Inc**
H-3—Captive Panel Hardware
- 350 **Unicorp Inc**
H-2—Threaded & Unthreaded Standoffs Swage & Rivet Type
- 351 **Unicorp Inc**
H-6—Handles Panel & Rack
- 352 **Unicorp Inc**
H-7—Precision Shoulder Screws
- 353 **Unicorp Inc**
H-4S—Insulating Washers

- 354 **Unicorp Inc**
H-5—Thumbscrews
- 355 **Unicorp Inc**
Precision Electronic Hardware
- 356 **Wise Components Inc**
Enclosures for Electronic Equipment
- 357 **Wise Components Inc**
Hardware

INTERCONNECTION & PACKAGING COMPONENTS—WIRE, CABLE, PRINTED CIRCUITS

- 358 **ACC Electronics**
Custom Printed Circuit Assemblies
- 359 **Almor Co Inc**
Power Supply Cord Sets
- 360 **Almor Co Inc**
Molded Cord & Cable Products
- 361 **AT&T Components & Electronic Systems**
C&ES Sales Aid CA86-100th
- 362 **Basler Electric Co**
Circuits: High Precision, High Technology Printed Wiring Boards
- 363 **Basler Electric Co**
Custom Designs PC Boards Assemblies
- 364 **Bud Industries Inc**
Modular Packaging MP-77
- 365 **Ceramaseal Div Clevepak Corp**
Duplex High Temperature Cables—8510
- 366 **Ceramaseal Div Clevepak Corp**
Conductor Contacts—8440
- 367 **Compac**
Custom Cable Assemblies
- 368 **Concord Electronics Corp**
Wire Wrap Terminations
- 369 **Consolidated Electronic Wire & Cable Corp**
585-Complete Guide Electronic Wire & Cable
- 370 **Consolidated Electronic Wire & Cable Corp**
7710-Tubing/Sleeving/Spiral Wrap Products
- 371 **Consolidated Electronic Wire & Cable Corp**
C750-Electronic Cords & Cordsets
- 372 **Cord Electronics Inc**
Telephone Accessories
- 373 **Cord Electronics Inc**
Cable/Connectors
- 374 **Eldre Corporation Inc**
Two BUS, Power Distribution on Printed Circuit Boards
- 375 **Elgenco Inc**
Noise Generator Cards
- 376 **General Elec Co Glass & Metallurgical Prods Mktg & Sales Oper**
Lead Wires
- 377 **General Technology Corp**
Printed Circuit Boards
- 378 **Keipro Circuit Systems Inc**
Etched Circuit Products D-8302
- 379 **King Wire & Cable Corp**
Electronic Wire & Cable
- 380 **Magnetic Shield Division**
WC-1 Magnetic Shielding Wire, Cable, Conduit & Sleeving
- 381 **Manhattan Electric Cable Corp**
Electronic & Electrical Wire & Cable #112
- 382 **Manhattan Electric Cable Corp**
Instrumentation & Thermocouple Extension Wire & Cable
- 383 **Manhattan Electric Cable Corp**
Shrinkable & Non-Shrink Tubing
- 384 **Mill-Max Mfg Co**
Standard Products Catalog for Electronic Interconnect
- 385 **Northwest Microcircuits**
Thick Film Substrates
- 386 **Peerless Radio Corp**
4th Edition Catalog
- 387 **Power Dynamics Inc**
Power Cords
- 388 **SADA Elettronica SpA**
Flat Cable Jumpers
- 389 **SADA Elettronica SpA**
Fuseholders
- 390 **Sager**
Fiber Optic Components
- 391 **Sager**
Power Supply Cords
- 392 **Sager**
Wire & Cable
- 393 **Speedy Circuits Inc**
Multilayer Boards
- 394 **Speedy Circuits Inc**
Prototype PC Boards
- 395 **Teknecomp SpA Div Zincocelere**
Printed Circuits
- 396 **Teledyne Geotech**
Printed Circuits
- 397 **Test Probes Inc**
Patchcords & Interconnect Cables
- 398 **U S Electronics Corp**
Wire Cutting & Stripping Services
- 399 **Zeus Industrial Products Inc**
Snaptube/Wrappings
- 400 **Zeus Industrial Products Inc**
Heat Shrink Tubing of Teflon
- 401 **Brush Wellman Inc**
Beryllia Ceramics
- 402 **Conap Inc**
P-140 Filled & Unfilled Polyurethane Potting Compounds
- 403 **Conap Inc**
P-160 Epoxy Potting & Encapsulating Systems
- 404 **Conap Inc**
C-110 Dielectric Conformal Coatings
- 405 **D.A.T.A. Inc**
Plastics & Adhesives
- 406 **Eagle Magnetic Co Inc**
Magnetic Shielding Materials
- 407 **Electronic Crystals Corp**
Crystal Blanks
- 408 **Filtronetics Inc**
Quartz Crystal 1 to 30MHz Range
- 409 **General Elec Co Glass & Metallurgical Prods Mktg & Sales Oper**
Electronic Phosphors
- 410 **General Elec Co Glass & Metallurgical Prods Mktg & Sales Oper**
DUMET & CUMET Wire
- 411 **General Elec Co Glass & Metallurgical Prods Mktg & Sales Oper**
High Purity Inorganic Chemicals
- 412 **Liberty Mirror Div/LOF Glass**
Optical Thin Film Coated Glass
- 413 **Liberty Mirror Div/LOF Glass**
Fabricated Glass
- 414 **Liberty Mirror Div/LOF Glass**
Mirrors
- 415 **Magnetic Shield Division**
MG-5 Magnetic Shielding Alloys
- 416 **Micro Contacts Inc**
Precision Custom Precious & Base Metal Stampings
- 417 **Micromech Mfg Corp**
Diamond Wheels
- 418 **Miller-Stephenson Chemical Co**
Chemicals for High Technology
- 419 **Miller-Stephenson Chemical Co**
Epoxy Resins/Curing Agents
- 420 **Miller-Stephenson Chemical Co**
Conformal Coatings
- 421 **3M Co Static Control Systems**
Total Control of the Static in Your Business
- 422 **Olin Hunt Specialty Products Inc**
Full Line of Acids, Solvents, Etchants & Other Processing Chemicals
- 423 **Olin Hunt Specialty Products Inc**
Polymer Thick Films—Innovations in Circuitry
- 424 **Olin Hunt Specialty Products Inc**
Waycoat Photoresists
- 425 **Pennwalt Corp Kynar Piezo Group**
Plastic Film—Piezoelectric

MATERIALS

- 400 **Alconox Inc**
Detergents-For Cleaning Electronic Parts, PC Boards etc.

- 426 **Philips ECG Inc**
Hi-Tech Chemicals
- 427 **Philips Electronics Ltd**
Passive Components Short Form
- 428 **Precision Metallurgical Co A Leach & Garner Co**
Clad Metals
- 429 **Precision Metallurgical Co A Leach & Garner Co**
Metal Parts
- 430 **SAES Getters/USA Inc**
Alkali Metal Dispensers
- 431 **SAES Getters/USA Inc**
Gaseous Mercury Sources
- 432 **Steward Mfg Co D M**
Cordierite Parts—Ferrite Carrier Bead Powder
- 433 **Steward Mfg Co D M**
Ceramics & Ceramic Parts
- 434 **Steward Mfg Co D M**
Magnetic Materials—Soft Ferrites
- 435 **Steward Mfg Co D M**
Magnetic Shielding
- 436 **Steward Mfg Co D M**
Magnets, Permanent
- 437 **Superior Technical Ceramics Corp**
Steatite-Alumina-Lava
- 438 **Superior Technical Ceramics Corp**
Illustrated Property Chart/Insulators
- 439 **TDK Corp**
Ferrites (Soft)
- 440 **TDK Corp**
Ferrite & REC Magnets
- 441 **Tecknit**
EMI Shielding Products
- 442 **Tecknit**
EMI Shielding Design Guide
- 443 **Tetko Inc**
Wire Cloth & Fabric Screens
- 444 **Vernitron Piezoelectric Div**
Modern Piezoelectric Ceramics—PD-9247
- 445 **Zeus Industrial Products Inc**
The Source for Tubing of Teflon
- 446 **Zeus Industrial Products Inc**
The World's Smallest Tubing
- 447 **Zeus Industrial Products Inc**
Catalog #7

PASSIVE ELECTRONIC COMPONENTS—CAPACITORS

- 448 **Alps Electric USA Inc**
Trimmer Capacitors
- 449 **American Technical Ceramics Corp**
UHF/Microwave Porcelain & Ceramic Chip Capacitors ATC 1-083

- 450 **American Technical Ceramics Corp**
UHF/Microwave Capacitors—3 Ring Binder
- 451 **AT&T Components & Electronic Systems**
Wound Film Capacitors CA75-24CAP
- 452 **Capco/Lectrohm**
Film Capacitors—Precision & Special Design
- 453 **Del Electronics Corp**
High Voltage Capacitors
- 454 **Del Electronics Corp**
Precision Capacitors
- 455 **Del Electronics Corp**
Custom Design Capacitors
- 456 **Delevan Div API**
Delcap Div—Multilayer Ceramic Chip Capacitor
- 457 **Eldre Corporation Inc**
CAP BUS Power Distribution with Noise Control without Decoupling Capacitors
- 458 **High Vacuum Electronics Inc**
Variable Capacitors, Vacuum
- 459 **Illinois Capacitor Inc**
MPW Metallized Polypropylene Film Capacitors
- 460 **Illinois Capacitor Inc**
PMB Mini Case Polyester Film Capacitors
- 461 **Illinois Capacitor Inc**
RSS Sub SUB-Mini Low Profile Aluminum Electrolytic Capacitors
- 462 **Illinois Capacitor Inc**
CKR Submini Radial Lead Aluminum Electrolytic Capacitors
- 463 **Illinois Capacitor Inc**
RSM Mini Radial Aluminum Electrolytic Capacitors
- 464 **IMB Electronic Products Inc**
Capacitors—Fixed Film
- 465 **International Components Corp**
Aluminum Electrolytic, Film & Disc Capacitors
- 466 **ISKRA Electronics Inc**
Capacitors
- 467 **ITT Components**
TAR Tantalum Capacitors
- 468 **ITT Components**
TAP Tantalum Capacitors
- 469 **Johanson Mfg Corp**
Variable Capacitors
- 470 **Mouser Electronics**
Electronics Purchasing Manual
- 471 **Multi Products International**
Ceramic Capacitors
- 472 **Murata Erie North America Inc**
Monolithic Ceramic Capacitors
- 473 **National Capacitor**
Axial Capacitors

- 474 **National Capacitor**
Radial Capacitors
- 475 **National Capacitor**
Variable Capacitors
- 476 **Northwest Microcircuits**
RC Networks
- 477 **Philips Electronics Ltd**
Passive Components Short Form
- 478 **Piconics Inc**
Inductive Components for Microelectronic Circuits
- 479 **Sager**
Capacitors
- 480 **S&EI Manufacturing**
Precision Capacitors
- 481 **Shelley-Ragon Inc**
Ceramic Capacitors
- 482 **Shelley-Ragon Inc**
Tantalum Capacitors
- 483 **Shigma Inc**
Capacitors
- 484 **Shokai Far East Ltd**
Capacitors
- 485 **Sprague-Goodman Electronics Inc**
#205 PISTONCAP Precision Trimmer Capacitors
- 486 **Sprague-Goodman Electronics Inc**
#207 Microwave PISTONCAP Sapphire Trimmer Capacitors
- 487 **Sprague-Goodman Electronics Inc**
#208A JFD PISTONCAP Trimmer Capacitors
- 488 **Sprague-Goodman Electronics Inc**
#305 Ceramic Dielectric Trimmer Capacitors
- 489 **Sprague-Goodman Electronics Inc**
#402D FILMTRIM Capacitors
- 490 **Surcom Associates Inc**
Vacuum Capacitors
- 491 **Surcom Associates Inc**
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- 492 **Surcom Associates Inc**
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- 493 **TDK Corp**
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- 494 **TDK Corp**
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- 495 **TDK Corp**
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- 496 **Teapo Electronic Corp of America**
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- 497 **Tecdia Inc**
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- 498 **Tecdia Inc**
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- 499 **Thomson Components-Mostek Corp**
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- 500 **Thomson Components-Mostek Corp**
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- 501 **Thomson Components-Mostek Corp**
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Industrial Film Capacitors
- 502 **Trim-tronics Inc**
Air Plate Trimmers 11 MM Size
- 503 **Trim-tronics Inc**
Air Plate Trimmers 8 MM Size
- 504 **Trim-tronics Inc**
Air Tubular Trimmers
- 505 **Wesco Electrical Co Inc**
Condensed Catalog
- 506 **Wesco Electrical Co Inc**
Yellow Main-Line Catalog
- 507 **Wesco Electrical Co Inc**
Metallized Polypropylene Film
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- 508 **Wright Capacitors**
Hi Voltage & Custom Ceramic
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- PASSIVE ELECTRONIC
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- 509 **Abacus Controls Inc**
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- 510 **Allen Avionics Inc**
Electromagnetic Delay Lines
- 511 **Allen Avionics Inc**
L-C Filters
- 512 **Allen Avionics Inc**
Video & Pulse Delay Lines
- 513 **Allen-Bradley Co**
Electronics BO Catalog
- 514 **Allen-Bradley Co**
Hard Facts on Why a Brushless DC
Motor is Better-MHGI-117
- 515 **AMP Inc**
Quiet Line Filter Products
- 516 **Andersen Laboratories Inc**
SAW Bandpass Filters
- 517 **Andersen Laboratories Inc**
SAW Delay Lines-Bulk Acoustic
Wave
- 518 **Andersen Laboratories Inc**
UHF & Microwave Frequency
Synthesizers
- 519 **Anderson Electronics Inc**
Quartz Crystals
- 520 **A P Circuit Corp**
Active Filter Modules
- 521 **Basler Electric Co**
Magnetic Components Facilities &
Capabilities
- 522 **Basler Electric Co**
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- 523 **Basler Electric Co**
Direct & Indirect Plug-In
Transformers
- 524 **Bel Fuse Inc**
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- 525 **Bicron Electronics Co**
Toroidal Power Transformers
- 526 **Bicron Electronics Co**
Current/Instrument Transformers
- 527 **Caddell-Burns Mfg Co Inc**
High Current Chokes
- 528 **Caddell-Burns Mfg Co Inc**
Variable Inductors
- 529 **Caddell-Burns Mfg Co Inc**
Guide to the Specification of
RF Inductors
- 530 **Caddell Coil Corp**
RF Coils for OEM's
- 531 **Capco/Lectrohm**
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- 532 **Captor Corp**
Typical Custom-Designed EMI
Filters #2843
- 533 **Captor Corp**
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- 534 **Corcom Inc**
RFI Powerline Filters—861F
- 1093 **Corcom Inc**
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- 535 **Cord Electronics Inc**
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- 536 **Data Delay Devices Inc**
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- 537 **Data Delay Devices Inc**
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- 538 **Delevan Div API**
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- 539 **Delevan Div API**
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Components
- 540 **Delevan Div API**
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- 541 **Electronic Crystals Corp**
Quartz Crystals
- 542 **Electronic Precision Components
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- 543 **ESC Electronics Corp**
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- 544 **ESC Electronics Corp**
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- 545 **ESC Electronics Corp**
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- 546 **Fair-Rite Products Corp**
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- 547 **Fair-Rite Products Corp**
Ferrites Components as EMI
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- 548 **Fair-Rite Products Corp**
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- 549 **Fair-Rite Products Corp**
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- 550 **Fair-Rite Products Corp**
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- 551 **Fair-Rite Products Corp**
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- 552 **Filtronetics Inc**
Bandpass, Band Reject, Low & High
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- 553 **Filtron Co Inc**
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- 554 **Filtron Co Inc**
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- 555 **Filtron Co Inc**
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- 556 **Frequency Selective Networks Inc**
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- 557 **Hisonic Inc**
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- 558 **Hisonic Inc**
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- 559 **Hisonic Inc**
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- 560 **Hisonic Inc**
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- 561 **Hisonic Inc**
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- 562 **Hisonic Inc**
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- 563 **Hytek Microsystems Inc**
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- 564 **Inductive Products Inc**
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- 565 **Inductive Products Inc**
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- 566 **Inductive Products Inc**
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- 567 **Inductive Products Inc**
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- 568 **Inductor Supply Inc**
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- 569 **Indus-Tool Corp**
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- 570 **ITT Components**
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- 571 **Jensen Transformers Inc**
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- 572 **Jensen Transformers Inc**
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- 573 **Jensen Transformers Inc**
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- 574 **Jensen Transformers Inc**
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- 575 **Jensen Transformers Inc**
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- 576 **Jensen Transformers Inc**
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- 577 **Krystinel Corp**
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- 578 **Krystinel Corp**
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- 579 **KVG**
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- 580 **KVG**
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- 581 **Liberty Mirror Div/LOF Glass**
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- 582 **MF Electronics Corp**
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- 583 **MF Electronics Corp**
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- 584 **MF Electronics Corp**
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- 585 **Microtran Co Inc**
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- 586 **Microtran Co Inc**
F251-International Series PC Power Transformers
- 587 **Microtran Co Inc**
F257-Splitform/Flat Stack PC Power Transformers
- 588 **Microtran Co Inc**
F851-Miniaturized Audio & Power Transformers, MIL Commercial
- 589 **Mouser Electronics**
Electronics Purchasing Manual
- 590 **Multi Products International**
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- 591 **Multi Products International**
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- 592 **Murata Erie North America Inc**
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- 593 **Pan-Magnetics International Inc**
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- 594 **Pan-Magnetics International Inc**
EMI Filters & Common Mode Chokes
- 595 **Philips Electronics Ltd**
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- 596 **Pico Electronics Inc**
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- 597 **Piconics Inc**
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- 598 **Piconics Inc**
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- 599 **Pletronics Inc**
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- 600 **Pletronics Inc**
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- 601 **Pletronics Inc**
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- 602 **Power Dynamics Inc**
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- 603 **Prem Magnetics Inc**
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- 604 **Prem Magnetics Inc**
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- 605 **Prem Magnetics Inc**
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- 606 **RCD Components Inc**
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- 607 **Rockwell Intl/Collins Mechanical Filters**
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- 608 **Rockwell Intl/Collins Mechanical Filters**
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- 609 **SAES Getters/USA Inc**
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- 610 **Sager**
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- 611 **Sanders Associates Inc**
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- 612 **Schott Corp**
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- 613 **Schott Corp**
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- 614 **Shokai Far East Ltd**
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- 615 **Signal Transformer Co Inc**
40N-4 Low Profile PC Transformers
- 616 **Signal Transformer Co Inc**
39N-1 Custom Transformers to Your Specifications
- 617 **Signal Transformer Co Inc**
41N-5 Split Bobbin Transformers
- 618 **Superior Electric Co The**
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- 619 **TDK Corp**
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- 620 **TDK Corp**
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- 621 **TDK Corp**
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- 622 **Technipower A Penril Co**
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- 623 **T T E Inc**
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- 624 **T T E Inc**
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- 625 **Ulveco Electronics Inc**
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- 626 **Ulveco Electronics Inc**
Toroidal Transformers
- 627 **Ulveco Electronics Inc**
Rectifier Transformers
- 628 **U S Electronics Corp**
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- 629 **Vernitron Piezoelectric Div**
FTF Resonator Data Sheet
- 630 **Vernitron Piezoelectric Div**
Piezoelectric Ignition Systems
- 631 **Venitron Piezoelectric Div**
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- 632 **Wilco Corp**
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- 633 **Wilco Corp**
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- 634 **Wilco Corp**
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- 635 **Wise Components Inc**
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- 636 **Xsis Electronics Inc**
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- 637 **Allen-Bradley Co**
BC Chip Resistors—EC 5220-21
- 638 **Allen-Bradley Co**
Electronic Components—EC 1224
- 639 **Allen-Bradley Co**
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- 640 **Alps Electric USA Inc**
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- 641 **Bird Electronic Corp**
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- 642 **Bird Electronic Corp**
Coaxial Attenuators—2-75 Watts, 1-30 dB
- 643 **Capco/Lectrohm**
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- 644 **Cord Electronics Inc**
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- 645 **Delevan Div API**
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- 646 **Huntington Electric Inc**
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- 647 **IET Labs Inc**
*Digital Potentiometers—
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- 648 **International Components Corp**
*Carbon Film & Metal Film
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- 649 **ISKRA Electronics Inc**
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- 650 **Mallory Components Div Emhart**
*Potentiometers—Wirewound,
Non-Precision*
- 651 **Mallory Components Div Emhart**
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- 652 **Mallory Components Div Emhart**
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- 653 **Micro Ohm Corp**
*Precision Wirewound & Power
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- 654 **Micro Ohm Corp**
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- 655 **Micro Ohm Corp**
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- 656 **Micro Ohm Corp**
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- 657 **Micro Ohm Corp**
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- 658 **Mouser Electronics**
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- 659 **Murata Erie North America Inc**
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- 660 **Murata Erie North America Inc**
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- 661 **Northwest Microcircuits**
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- 662 **Philips Electronics Ltd**
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- 663 **Piconics Inc**
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- 664 **RCD Components Inc**
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- 665 **RCD Components Inc**
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- 667 **RCL-Shellcross**
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- 668 **RCL-Shellcross**
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- 669 **Sager**
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- 670 **Sensor Scientific Inc**
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- 671 **Servo Instrument Corp**
*Non Linear Conductive Plastic
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- 672 **Servo Instrument Corp**
*Precision Potentiometers & Electro
Mechanical Assemblies*
- 673 **Shelley-Ragon Inc**
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- 674 **Shelley-Ragon Inc**
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- 675 **Shelley-Ragon Inc**
Wirewound Resistors
- 676 **Shelley-Ragon Inc**
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- 677 **Shigma Inc**
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- 678 **Shokai Far East Ltd**
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- 679 **TDK Corp**
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- 680 **TDK Corp**
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- 681 **TDK Corp**
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- 682 **Tel-Labs Inc**
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- 683 **Tel-Labs Inc**
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- 684 **Thermometrics Inc**
Thermistor Catalog 182—76 Pgs
- 685 **Thermometrics Inc**
*Thermistor Sensor
Handbook—200 Pgs*

PASSIVE ELECTRONIC COMPONENTS—SWITCHES & RELAYS

- 686 **Alco Electronic Products Inc**
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- 687 **Alps Electric USA Inc**
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- 688 **Airpax Corp Cambridge Div**
*2016—Circuit Breakers for the
International Market*
- 689 **Airpax Corp Cambridge Div**
2000—Circuit Breaker Handbook
- 690 **Airpax Corp Cambridge Div**
*2004—Cardgard—Miniature &
Circuit Breaker for PC Boards*
- 691 **APM Hexseal Corp**
*Sealing Boots for Switches &
Circuit Breakers*
- 692 **Aromat Corp**
Relay Catalog
- 693 **Aromat Corp**
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- 694 **Bel Fuse Inc**
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- 695 **C & K Components Inc**
Full Line Switches—8606

- 696 **C & K Components Inc**
Clayton Div Products—C8601
- 697 **Clairex Electronics**
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- 698 **Clare Div General Instrument Corp**
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- 699 **Clare Div General Instrument Corp**
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- 700 **Clare Div General Instrument Corp**
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- 701 **Cole Instrument Corp**
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- 702 **Compac**
Transfer Switches
- 703 **Compac**
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- 704 **Cord Electronics Inc**
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- 705 **EAO Switch Corp**
GC85-1 Switches—92 Pgs
- 706 **Electrical Products Sales Corp**
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- 707 **Electric Switches Inc**
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- 708 **Electronic Equipment Co Ltd**
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- 709 **Electronic Equipment Co Ltd**
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- 710 **Filtronetics Inc**
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- 711 **Filtronetics Inc**
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- 712 **Fujitsu Components of America Inc**
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- 713 **Fuses Unlimited**
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- 714 **Fuses Unlimited**
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- 715 **General Microwave Corp**
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- 716 **Grayhill Inc**
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- 717 **Grayhill Inc**
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- 718 **Grayhill Inc**
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- 719 **Grayhill Inc**
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- 720 **Grayhill Inc**
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- 721 **Grayhill Inc**
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- 722 **Hasco Components Inc**
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- 723 **Hasco Components Inc**
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- 724 **Hasco Components Inc**
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- 725 **ITT Components**
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- 726 **Janco Corp**
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- 727 **Janco Corp**
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- 728 **Kay Elemetrics Corp**
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- 729 **Kin-Tronics Inc**
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- 730 **Linemaster Switch Corp**
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- 731 **Magnecraft Electric Co**
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- 732 **Magnecraft Electric Co**
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- 733 **Magnecraft Electric Co**
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- 734 **Magnecraft Electric Co**
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- 735 **Magnecraft Electric Co**
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- 736 **Marquardt Switches Inc**
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- 737 **Marquardt Switches Inc**
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- 738 **Micro Contacts Inc**
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- 739 **Micro Contacts Inc**
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- 740 **Mouser Electronics**
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- 741 **NKK Switches of America Inc**
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- 742 **NKK Switches of America Inc**
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- 743 **Opto 22**
Solid State Relay Data Book
- 744 **Paneltec Inc**
Membrane Switches
- 745 **Peerless Radio Corp**
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- 746 **Philips ECG Inc**
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- 747 **Power Dynamics Inc**
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- 748 **Regdon Corp**
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- 749 **SAES Getters/USA Inc**
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- 750 **SAES Getters/USA Inc**
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- 751 **Sager**
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- 752 **Sager**
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- 753 **Shallco Inc**
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- 754 **Shelley-Ragon Inc**
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- 755 **Shigma Inc**
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- 756 **Shokai Far East Ltd**
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- 757 **Solid State Electronics Corp**
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- 758 **Solid State Electronics Corp**
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- 759 **Surcom Associates Inc**
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- 760 **Tech Laboratories**
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- 761 **Teledyne Relays**
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- 762 **Teledyne Solid State**
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- 763 **Unimax Switch Corp**
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- 764 **Unimax Switch Corp**
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- 765 **Unimax Switch Corp**
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- 766 **Unimax Switch Corp**
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- 767 **Wise Components Inc**
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- 768 **Abacus Controls Inc**
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- 770 **Alexander Mfg Co**
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- 771 **AT&T Components & Electronic Systems**
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- 772 **Atlas Energy Systems**
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- 773 **Atlas Energy Systems**
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- 774 **Atlas Energy Systems**
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- 775 **Basler Electric Co**
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- 776 **Battery Specialties**
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- 777 **Battery Specialties**
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- 778 **Battery Specialties**
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- 779 **Bertan Associates Inc**
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- 780 **Bertan Associates Inc**
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- 781 **CML Macarr Div**
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- 782 **CML Macarr Div**
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- 783 **CML Macarr Div**
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- 784 **Computer Conversions Corp**
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- 785 **Condor Inc**
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- 786 **Condor Inc**
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- 787 **Condor Inc**
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- 788 **Control Technology Co Inc**
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- 789 **Control Technology Co Inc**
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- 790 **Control Technology Co Inc**
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- 791 **Cord Electronics Inc**
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- 792 **Cord Electronics Inc**
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- 793 **Cord Electronics Inc**
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- 794 **Del Electronics Corp**
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- 795 **Del Electronics Corp**
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- 797 **Ehrhorn Technical Operations**
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- 00 **Electro Industries Inc**
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- 01 **Electronic Navigation Industries**
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- 03 **Electro Powerpacs Corp**
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- 04 **Elgar Corp**
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- 05 **Elgar Corp**
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- 06 **Emco High Voltage**
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- 07 **Endicott Research Group Inc**
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- 08 **Endicott Research Group Inc**
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- 09 **Entran Devices Inc**
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- 03 **Epsco Inc**
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- 10 **Eveready Battery Co Inc**
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- 11 **Eveready Battery Co Inc**
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- 12 **FIC Corp**
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- 13 **Fidelity Tech Inc**
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- 17 **Fuses Unlimited**
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- 18 **Gates Energy Products Inc**
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- 19 **Gates Energy Products Inc**
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- 20 **Gates Energy Products Inc**
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- 21 **Georator Corp**
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- 22 **Georator Corp**
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- 23 **Georator Corp**
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- 824 **Handok California Co Ltd**
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- 302 **IMC Magnetics Corp**
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- 832 **Kepco Inc**
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- 838 **Panasonic Industrial Co Battery Sales**
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- 839 **Panasonic Industrial Co Battery Sales**
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- 840 **Panasonic Industrial Co Battery Sales**
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- 841 **Panasonic Industrial Co Battery Sales**
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- 842 **Panasonic Industrial Co Battery Sales**
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- 849 **Power-Sonic Inc**
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- 854 **Sierracin/Power Systems**
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- 858 **SL Waber**
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- 1097 **Spellman High Voltage Electronics Corp.**
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- 1098 **Spellman High Voltage Electronics Corp.**
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- 1099 **Spellman High Voltage Electronics Corp.**
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- 859 **Superior Electric Co**
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- 860 **Superior Electric Co The**
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- 861 **Superior Electric Co The**
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- 864 **TDK Corp**
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- 865 **TDK Corp**
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- 866 **Teapo Electronic Corp of America**
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- 867 **Technipower A Penril Co**
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- 870 **Texmate Inc**
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- 911 **3M Co Static Control Systems**
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- 913 **Olin Hunt Specialty Products Inc**
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- 915 **Perkin-Elmer Corp Semiconductor Equip Group**
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- ☐ b Communications Equipment & Systems
- ☐ c Navigation, Guidance, or Control Systems
- ☐ d Aerospace, Underseas, Ground Support Equip.
- ☐ e Test & Measuring Equipment
- ☐ f Consumer Products
- ☐ g Industrial Controls & Equipment
- ☐ h Components & Subassemblies
- ☐ i Independent R&D Organizations
- ☐ j Government

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☐ b Communications Equipment & Systems
☐ c Navigation, Guidance, or Control Systems
☐ d Aerospace, Underseas, Ground Support Equip.
☐ e Test & Measuring Equipment
☐ f Consumer Products
☐ g Industrial Controls & Equipment
☐ h Components & Subassemblies
☐ i Independent R&D Organizations
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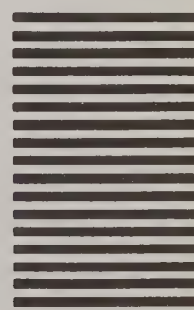


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- ☐ a Computers & Related Equipment
☐ b Communications Equipment & Systems
☐ c Navigation, Guidance, or Control Systems
☐ d Aerospace, Underseas, Ground Support Equip.
☐ e Test & Measuring Equipment
☐ f Consumer Products
☐ g Industrial Controls & Equipment
☐ h Components & Subassemblies
☐ i Independent R&D Organizations
☐ j Government

NAME _____
 TITLE _____
 COMPANY _____
 STREET _____
 CITY _____
 STATE _____ ZIP _____
 AREA CODE _____ PHONE _____

1 35 69 103 137 171	205 239 273 307 341 375	409 443 477 511 545 579	613 647 681 715 749 783	817 851 885 919 953 987	1021 1055 1089 1123 1157 1191	1225 1259 1293 1327 1361 1395 1429 1463
2 36 70 104 138 172	206 240 274 308 342 376	410 444 478 512 546 580	614 648 682 716 750 784	818 852 886 920 954 988	1022 1056 1090 1124 1158 1192	1226 1260 1294 1328 1362 1396 1430 1464
3 37 71 105 139 173	207 241 275 309 343 377	411 445 479 513 547 581	615 649 683 717 751 785	819 853 887 921 955 989	1023 1057 1091 1125 1159 1193	1227 1261 1295 1329 1363 1397 1431 1465
4 38 72 106 140 174	208 242 276 310 344 378	412 446 480 514 548 582	616 650 684 718 752 786	820 854 888 922 956 990	1024 1058 1092 1126 1160 1194	1228 1262 1296 1330 1364 1398 1432 1466
5 39 73 107 141 175	209 243 277 311 345 379	413 447 481 515 549 583	617 651 685 719 753 787	821 855 889 923 957 991	1025 1059 1093 1127 1161 1195	1229 1263 1297 1331 1365 1399 1433 1467
6 40 74 108 142 176	210 244 278 312 346 380	414 448 482 516 550 584	618 652 686 720 754 788	822 856 890 924 958 992	1026 1060 1094 1128 1162 1196	1230 1264 1298 1332 1366 1400 1434 1468
7 41 75 109 143 177	211 245 279 313 347 381	415 449 483 517 551 585	619 653 687 721 755 789	823 857 891 925 959 993	1027 1061 1095 1129 1163 1197	1231 1265 1299 1333 1367 1401 1435 1469
8 42 76 110 144 178	212 246 280 314 348 382	416 450 484 518 552 586	620 654 688 722 756 790	824 858 892 926 960 994	1028 1062 1096 1130 1164 1198	1232 1266 1300 1334 1368 1402 1436 1470
9 43 77 111 145 179	213 247 281 315 349 383	417 451 485 519 553 587	621 655 689 723 757 791	825 859 893 927 961 995	1029 1063 1097 1131 1165 1199	1233 1267 1301 1335 1369 1403 1437 1471
10 44 78 112 146 180	214 248 282 316 350 384	418 452 486 520 554 588	622 656 690 724 758 792	826 860 894 928 962 996	1030 1064 1098 1132 1166 1200	1234 1268 1302 1336 1370 1404 1438 1472
11 45 79 113 147 181	215 249 283 317 351 385	419 453 487 521 555 589	623 657 691 725 759 793	827 861 895 929 963 997	1031 1065 1099 1133 1167 1201	1235 1269 1303 1337 1371 1405 1439 1473
12 46 80 114 148 182	216 250 284 318 352 386	420 454 488 522 556 590	624 658 692 726 760 794	828 862 896 930 964 998	1032 1066 1100 1134 1168 1202	1236 1270 1304 1338 1372 1406 1440 1474
13 47 81 115 149 183	217 251 285 319 353 387	421 455 489 523 557 591	625 659 693 727 761 795	829 863 897 931 965 999	1033 1067 1101 1135 1169 1203	1237 1271 1305 1339 1373 1407 1441 1475
14 48 82 116 150 184	218 252 286 320 354 388	422 456 490 524 558 592	626 660 694 728 762 796	830 864 898 932 966 1000	1034 1068 1102 1136 1170 1204	1238 1272 1306 1340 1374 1408 1442 1476
15 49 83 117 151 185	219 253 287 321 355 389	423 457 491 525 559 593	627 661 695 729 763 797	831 865 899 933 967 1001	1035 1069 1103 1137 1171 1205	1239 1273 1307 1341 1375 1409 1443 1477
16 50 84 118 152 186	220 254 288 322 356 390	424 458 492 526 560 594	628 662 696 730 764 798	832 866 900 934 968 1002	1036 1070 1104 1138 1172 1206	1240 1274 1308 1342 1376 1410 1444 1478
17 51 85 119 153 187	221 255 289 323 357 391	425 459 493 527 561 595	629 663 697 731 765 799	833 867 901 935 969 1003	1037 1071 1105 1139 1173 1207	1241 1275 1309 1343 1377 1411 1445 1479
18 52 86 120 154 188	222 256 290 324 358 392	426 460 494 528 562 596	630 664 698 732 766 800	834 868 902 936 970 1004	1038 1072 1106 1140 1174 1208	1242 1276 1310 1344 1378 1412 1446 1480
19 53 87 121 155 189	223 257 291 325 359 393	427 461 495 529 563 597	631 665 699 733 767 801	835 869 903 937 971 1005	1039 1073 1107 1141 1175 1209	1243 1277 1311 1345 1379 1413 1447 1481
20 54 88 122 156 190	224 258 292 326 360 394	428 462 496 530 564 598	632 666 700 734 768 802	836 870 904 938 972 1006	1040 1074 1108 1142 1176 1210	1244 1278 1312 1346 1380 1414 1448 1482
21 55 89 123 157 191	225 259 293 327 361 395	429 463 497 531 565 599	633 667 701 735 769 803	837 871 905 939 973 1007	1041 1075 1109 1143 1177 1211	1245 1279 1313 1347 1381 1415 1449 1483
22 56 90 124 158 192	226 260 294 328 362 396	430 464 498 532 566 600	634 668 702 736 770 804	838 872 906 940 974 1008	1042 1076 1110 1144 1178 1212	1246 1280 1314 1348 1382 1416 1450 1484
23 57 91 125 159 193	227 261 295 329 363 397	431 465 499 533 567 601	635 669 703 737 771 805	839 873 907 941 975 1009	1043 1077 1111 1145 1179 1213	1247 1281 1315 1349 1383 1417 1451 1485
24 58 92 126 160 194	228 262 296 330 364 398	432 466 500 534 568 602	636 670 704 738 772 806	840 874 908 942 976 1010	1044 1078 1112 1146 1180 1214	1248 1282 1316 1350 1384 1418 1452 1486
25 59 93 127 161 195	229 263 297 331 365 399	433 467 501 535 569 603	637 671 705 739 773 807	841 875 909 943 977 1011	1045 1079 1113 1147 1181 1215	1249 1283 1317 1351 1385 1419 1453 1487
26 60 94 128 162 196	230 264 298 332 366 400	434 468 502 536 570 604	638 672 706 740 774 808	842 876 910 944 978 1012	1046 1080 1114 1148 1182 1216	1250 1284 1318 1352 1386 1420 1454 1488
27 61 95 129 163 197	231 265 299 333 367 401	435 469 503 537 571 605	639 673 707 741 775 809	843 877 911 945 979 1013	1047 1081 1115 1149 1183 1217	1251 1285 1319 1353 1387 1421 1455 1489
28 62 96 130 164 198	232 266 300 334 368 402	436 470 504 538 572 606	640 674 708 742 776 810	844 878 912 946 980 1014	1048 1082 1116 1150 1184 1218	1252 1286 1320 1354 1388 1422 1456 1490
29 63 97 131 165 199	233 267 301 335 369 403	437 471 505 539 573 607	641 675 709 743 777 811	845 879 913 947 981 1015	1049 1083 1117 1151 1185 1219	1253 1287 1321 1355 1389 1423 1457 1491
30 64 98 132 166 200	234 268 302 336 370 404	438 472 506 540 574 608	642 676 710 744 778 812	846 880 914 948 982 1016	1050 1084 1118 1152 1186 1220	1254 1288 1322 1356 1390 1424 1458 1492
31 65 99 133 167 201	235 269 303 337 371 405	439 473 507 541 575 609	643 677 711 745 779 813	847 881 915 949 983 1017	1051 1085 1119 1153 1187 1221	1255 1289 1323 1357 1391 1425 1459 1493
32 66 100 134 168 202	236 270 304 338 372 406	440 474 508 542 576 610	644 678 712 746 780 814	848 882 916 950 984 1018	1052 1086 1120 1154 1188 1222	1256 1290 1324 1358 1392 1426 1460 1494
33 67 101 135 169 203	237 271 305 339 373 407	441 475 509 543 577 611	645 679 713 747 781 815	849 883 917 951 985 1019	1053 1087 1121 1155 1189 1223	1257 1291 1325 1359 1393 1427 1461 1495
34 68 102 136 170 204	238 272 306 340 374 408	442 476 510 544 578 612	646 680 714 748 782 816	850 884 918 952 986 1020	1054 1088 1122 1156 1190 1224	1258 1292 1326 1360 1394 1428 1462 1496



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- ☐ g Industrial Controls & Equipment
- ☐ h Components & Subassemblies
- ☐ i Independent R&D Organizations
- ☐ j Government

NAME _____

TITLE _____

COMPANY _____

STREET _____

CITY _____

STATE _____ ZIP _____

AREA CODE _____ PHONE _____

Electronics BUYERS' GUIDE CATALOG INQUIRY CARD

NOT VALID WITHOUT
FULL DATA REQUESTED

1986/87

1 35 69 103 137 171	205 239 273 307 341 375	409 443 477 511 545 579	613 647 681 715 749 783	817 851 885 919 953 987	1021 1055 1089 1123 1157 1191	1225 1259 1293 1327 1361 1395 1429 1463
2 36 70 104 138 172	206 240 274 308 342 376	410 444 478 512 546 580	614 648 682 716 750 784	818 852 886 920 954 988	1022 1056 1090 1124 1158 1192	1226 1260 1294 1328 1362 1396 1430 1464
3 37 71 105 139 173	207 241 275 309 343 377	411 445 479 513 547 581	615 649 683 717 751 785	819 853 887 921 955 989	1023 1057 1091 1125 1159 1193	1227 1261 1295 1329 1363 1397 1431 1465
4 38 72 106 140 174	208 242 276 310 344 378	412 446 480 514 548 582	616 650 684 718 752 786	820 854 888 922 956 990	1024 1058 1092 1126 1160 1194	1228 1262 1296 1330 1364 1398 1432 1466
5 39 73 107 141 175	209 243 277 311 345 379	413 447 481 515 549 583	617 651 685 719 753 787	821 855 889 923 957 991	1025 1059 1093 1127 1161 1195	1229 1263 1297 1331 1365 1399 1433 1467
6 40 74 108 142 176	210 244 278 312 346 380	414 448 482 516 550 584	618 652 686 720 754 788	822 856 890 924 958 992	1026 1060 1094 1128 1162 1196	1230 1264 1298 1332 1366 1400 1434 1468
7 41 75 109 143 177	211 245 279 313 347 381	415 449 483 517 551 585	619 653 687 721 755 789	823 857 891 925 959 993	1027 1061 1095 1129 1163 1197	1231 1265 1299 1333 1367 1401 1435 1469
8 42 76 110 144 178	212 246 280 314 348 382	416 450 484 518 552 586	620 654 688 722 756 790	824 858 892 926 960 994	1028 1062 1096 1130 1164 1198	1232 1266 1300 1334 1368 1402 1436 1470
9 43 77 111 145 179	213 247 281 315 349 383	417 451 485 519 553 587	621 655 689 723 757 791	825 859 893 927 961 995	1029 1063 1097 1131 1165 1199	1233 1267 1301 1335 1369 1403 1437 1471
10 44 78 112 146 180	214 248 282 316 350 384	418 452 486 520 554 588	622 656 690 724 758 792	826 860 894 928 962 996	1030 1064 1098 1132 1166 1200	1234 1268 1302 1336 1370 1404 1438 1472
11 45 79 113 147 181	215 249 283 317 351 385	419 453 487 521 555 589	623 657 691 725 759 793	827 861 895 929 963 997	1031 1065 1099 1133 1167 1201	1235 1269 1303 1337 1371 1405 1439 1473
12 46 80 114 148 182	216 250 284 318 352 386	420 454 488 522 556 590	624 658 692 726 760 794	828 862 896 930 964 998	1032 1066 1100 1134 1168 1202	1236 1270 1304 1338 1372 1406 1440 1474
13 47 81 115 149 183	217 251 285 319 353 387	421 455 489 523 557 591	625 659 693 727 761 795	829 863 897 931 965 999	1033 1067 1101 1135 1169 1203	1237 1271 1305 1339 1373 1407 1441 1475
14 48 82 116 150 184	218 252 286 320 354 388	422 456 490 524 558 592	626 660 694 728 762 796	830 864 898 932 966 1000	1034 1068 1102 1136 1170 1204	1238 1272 1306 1340 1374 1408 1442 1476
15 49 83 117 151 185	219 253 287 321 355 389	423 457 491 525 559 593	627 661 695 729 763 797	831 865 899 933 967 1001	1035 1069 1103 1137 1171 1205	1239 1273 1307 1341 1375 1409 1443 1477
16 50 84 118 152 186	220 254 288 322 356 390	424 458 492 526 560 594	628 662 696 730 764 798	832 866 900 934 968 1002	1036 1070 1104 1138 1172 1206	1240 1274 1308 1342 1376 1410 1444 1478
17 51 85 119 153 187	221 255 289 323 357 391	425 459 493 527 561 595	629 663 697 731 765 799	833 867 901 935 969 1003	1037 1071 1105 1139 1173 1207	1241 1275 1309 1343 1377 1411 1445 1479
18 52 86 120 154 188	222 256 290 324 358 392	426 460 494 528 562 596	630 664 698 732 766 800	834 868 902 936 970 1004	1038 1072 1106 1140 1174 1208	1242 1276 1310 1344 1378 1412 1446 1480
19 53 87 121 155 189	223 257 291 325 359 393	427 461 495 529 563 597	631 665 699 733 767 801	835 869 903 937 971 1005	1039 1073 1107 1141 1175 1209	1243 1277 1311 1345 1379 1413 1447 1481
20 54 88 122 156 190	224 258 292 326 360 394	428 462 496 530 564 598	632 666 700 734 768 802	836 870 904 938 972 1006	1040 1074 1108 1142 1176 1210	1244 1278 1312 1346 1380 1414 1448 1482
21 55 89 123 157 191	225 259 293 327 361 395	429 463 497 531 565 599	633 667 701 735 769 803	837 871 905 939 973 1007	1041 1075 1109 1143 1177 1211	1245 1279 1313 1347 1381 1415 1449 1483
22 56 90 124 158 192	226 260 294 328 362 396	430 464 498 532 566 600	634 668 702 736 770 804	838 872 906 940 974 1008	1042 1076 1110 1144 1178 1212	1246 1280 1314 1348 1382 1416 1450 1484
23 57 91 125 159 193	227 261 295 329 363 397	431 465 499 533 567 601	635 669 703 737 771 805	839 873 907 941 975 1009	1043 1077 1111 1145 1179 1213	1247 1281 1315 1349 1383 1417 1451 1485
24 58 92 126 160 194	228 262 296 330 364 398	432 466 500 534 568 602	636 670 704 738 772 806	840 874 908 942 976 1010	1044 1078 1112 1146 1180 1214	1248 1282 1316 1350 1384 1418 1452 1486
25 59 93 127 161 195	229 263 297 331 365 399	433 467 501 535 569 603	637 671 705 739 773 807	841 875 909 943 977 1011	1045 1079 1113 1147 1181 1215	1249 1283 1317 1351 1385 1419 1453 1487
26 60 94 128 162 196	230 264 298 332 366 400	434 468 502 536 570 604	638 672 706 740 774 808	842 876 910 944 978 1012	1046 1080 1114 1148 1182 1216	1250 1284 1318 1352 1386 1420 1454 1488
27 61 95 129 163 197	231 265 299 333 367 401	435 469 503 537 571 605	639 673 707 741 775 809	843 877 911 945 979 1013	1047 1081 1115 1149 1183 1217	1251 1285 1319 1353 1387 1421 1455 1489
28 62 96 130 164 198	232 266 300 334 368 402	436 470 504 538 572 606	640 674 708 742 776 811	844 878 912 946 980 1014	1048 1082 1116 1150 1184 1218	1252 1286 1320 1354 1388 1422 1456 1490
29 63 97 131 165 199	233 267 301 335 369 403	437 471 505 539 573 607	641 675 709 743 777 811	845 879 913 947 981 1015	1049 1083 1117 1151 1185 1219	1253 1287 1321 1355 1389 1423 1457 1491
30 64 98 132 166 200	234 268 302 336 370 404	438 472 506 540 574 608	642 676 710 744 778 812	846 880 914 948 982 1016	1050 1084 1118 1152 1186 1220	1254 1288 1322 1356 1390 1424 1458 1492
31 65 99 133 167 201	235 269 303 337 371 405	439 473 507 541 575 609	643 677 711 745 779 813	847 881 915 949 983 1017	1051 1085 1119 1153 1187 1221	1255 1289 1323 1357 1391 1425 1459 1493
32 66 100 134 168 202	236 270 304 338 372 406	440 474 508 542 576 610	644 678 712 746 780 814	848 882 916 950 984 1018	1052 1086 1120 1154 1188 1222	1256 1290 1324 1358 1392 1426 1460 1494
33 67 101 135 169 203	237 271 305 339 373 407	441 475 509 543 577 611	645 679 713 747 781 815	849 883 917 951 985 1019	1053 1087 1121 1155 1189 1223	1257 1291 1325 1359 1393 1427 1461 1495
34 68 102 136 170 204	238 272 306 340 374 408	442 476 510 544 578 612	646 680 714 748 782 816	850 884 918 952 986 1020	1054 1088 1122 1156 1190 1224	1258 1292 1326 1360 1394 1428 1462 1496

Electronics BUYERS' GUIDE 1986-87

MANUFACTURERS' SALES OFFICES AND DISTRIBUTORS

**The following information is supplied
by each company:**

1. Company name, address, telephone number with area code.
2. Name and title of individual to be contacted for sales information.
3. Number of engineers.
4. Number of employees.
5. Annual dollar volume of sales.
6. Local sales offices and/or manufacturers representatives listed geographically by state.
7. Local distributors are listed geographically by state.
8. For quick referral, all advertisers' listings and advertising page numbers are in boldface type.

AAI CORP BOX 6767 BALTIMORE
MD 21204 TWX 710-232-1800.....301-666-1400
G MANESS EMP 3000 ENG 1000 OVER \$10,000K
CA AAI Oakland.....839-1349
FL AAI Orlando.....291-1904
OH AAI Dayton.....253-8891

AAK CORP 747 RIVER ST HAVERHILL
MA 01830.....617-373-3769
S MUSUMECI EMP 10 ENG 2
CA Cleland & Co Culver City.....213-390-7477
FL Brennan Assoc Clearwater.....813-446-5006
IL Bierhaus Sales 1013 E 31 St La Grange
IN Loren Green Indpls.....317-293-9827
MN Hei Lite Sales Mnpls.....612-861-6051
OH Tiby Co Cleveland.....216-371-5335

A & D ELECTRICAL INSTRUMENTS
73-07 88TH ST GLENDALE
NY 11385.....718-275-6516
D SCHETTINI

AAVID ENGINEERING INC ONE
KOOL PATH LACONIA NH 03247
TWX 510-298-1127.....603-524-4443
C NELSON EMP 300 ENG 4

AZ Cartwright & Bean Inc Huntsville.....205-830-1540
AZ Jarko Assoc Phoenix.....602-243-4387
AR Matthews & Associates Dallas.....214-248-7881
CA Cook Enterprises El Monte.....213-686-2120
CA Shaw-Tech Palo Alto.....215-961-4775
CO Matthews & Assoc Denver.....303-450-6476
CT Kitchen & Kutchen North Haven.....203-239-0212
DE Jack McCoy Inc Downingtown.....215-363-0350
DC Marktron Inc Rockville.....301-251-8990
FL Cartwright & Bean Orlando.....305-422-4531
GA Cartwright & Bean Inc Atlanta.....404-233-2939
ID Charles Fields & Associates SLC.....801-531-6177
IL Beta Technology Sales Glendale
Hts.....312-790-9886
IN Kahr Sales Inc Indpls.....317-888-8396
IA SPS Assoc Des Moines.....515-225-0607
KS SPS Assoc Olathe.....913-764-4450
KY Kahr Sales Inc Cincinnati.....513-922-3133
LA Cartwright & Bean Inc Covington.....504-892-1170
MD Marktron Inc Hunt Valley.....301-628-1111
MA Kitchen & Kutchen Burlington.....617-229-2660
MI Norwood Scroggys Co Jackson.....517-750-1170
MN M Johnson Brainerd.....218-829-8180
MS Cartwright & Bean Inc Jackson.....601-981-1170
MO SPS Assoc Earth City.....314-291-0520
NJ Jack McKey Inc Medford.....609-953-0770
NM Ron-Tek Albuquerque.....505-299-4124
NY Reagan/Comp Albany.....518-489-7408
NY Cambridge-Allen & Assoc
Berkeley Hts.....201-464-0203
NC Cartwright & Bean Inc Raleigh.....919-781-6560
OH Kahr Sales Inc Cincinnati.....513-922-3133
OR SPS Electronics Portland.....503-297-6919
PA Jack McCoy Inc Downingtown.....215-363-0350
TN Cartwright & Bean Inc Knoxville.....615-693-7450
TX Matthews & Assoc Dallas.....214-248-7881
UT Chas Fields & Assoc SLC.....801-531-6177
VA Marktron Inc Charlottesville.....804-973-5874
WA SPS Electronics Redmond.....206-323-4140
WI Beta Technology Sales Milwaukee.....414-543-6609
FR Isla Caribe Electro Sales
Guaynabo PR.....809-720-4430
FR R-Theta Inc Mississauga ON.....416-890-0221

ABACUS CONTROLS INC 86
READING RD SOMERVILLE
NJ 08876 TWX 888186.....201-526-6010
G O'SULLIVAN EMP 40 ENG 3 \$1,000-\$2,500K
ADV PG 336
AL Scientific Devices Huntsville.....205-536-1969
CA Power Partners Los Angeles.....213-215-0800
CT Electronic Sales of NE
New London.....203-443-2646
FL Scientific Devices Orlando.....305-841-8180
GA Scientific Devices Atlanta.....404-979-7971
MA Electronic Sales of NE Wareham.....617-295-7634
NC Scientific Devices Winston-Salem.....919-765-5776
TX True Technology Dallas.....214-691-7870

ABALON PRECISION MFG CORP
1040 HOME ST BRONX NY 10459.....212-589-5682
L ORENT EMP 25 ENG 2
FL Scientific Devices Orlando.....305-841-8180
GA Scientific Devices Atlanta.....404-979-7971
MA Electronic Sales of NE Wareham.....617-295-7634
NC Scientific Devices Winston-Salem.....919-765-5776
TX True Technology Dallas.....214-691-7870

ABALON PRECISION MFG CORP
1040 HOME ST BRONX NY 10459.....212-589-5682
L ORENT EMP 25 ENG 2

ABBEON CAL INC 123 GRAY AVE
SANTA BARBARA CA 93101.....805-966-0810
F WERTHEIM EMP 15 ENG 1 \$2,500-\$5,000K
FL Scientific Devices Orlando.....305-841-8180
GA Scientific Devices Atlanta.....404-979-7971
MA Electronic Sales of NE Wareham.....617-295-7634
NC Scientific Devices Winston-Salem.....919-765-5776
TX True Technology Dallas.....214-691-7870

ABBOTT & CO 1611 CASCADE DR
MARION OH 43302.....614-382-8212
R BURKLEW EMP 300 ENG 4 OVER \$10,000K
KY O Martin Glasgow.....502-651-5708
OH Mid-Ohio Sales Box 234 Marion.....614-389-2741

ABBOTT PRODUCTS INC 14-10
123RD ST COLLEGE POINT
NY 11356.....718-358-1400
N JACOBSON EMP 62 ENG 2 \$1,000-\$2,500K

ABBOTT TRANSISTOR LABS INC
5200 W JEFFERSON BLVD
LOS ANGELES CA 90016
TWX 69-1398.....213-936-8185
M BROWN EMP 320 ENG 20 OVER \$10,000K
NJ Abbott Transistor Labs Fort Lee.....201-461-4411
TX Abbott Transistor Labs
Richardson.....214-437-0697

ABBOTT TRANSISTOR LABS POWER
SUPPLY DIV 5200 W JEFFERSON
BLVD LOS ANGELES CA 90016
CA 91506 TWX 69-6282.....213-936-8185
M BROWN EMP 200 ENG 10 OVER \$10,000K
NJ Abbott Transistor Labs Fort Lee.....201-461-4411
TX Abbott Transistor Labs
Richardson.....214-437-0697

ABBOTT TRANSISTOR TRANSFORMER DIV
639 S GLENWOOD PL BURBANK
CA 91506 TWX 69-6282.....818-841-3630
P FERRARI EMP 40 ENG 2 \$1,000-\$2,500K
AL Novus Group Huntsville.....205-881-2207
FL Gugel Assoc Orlando.....305-788-0845
GA Novus Group Liburn.....404-381-1015
ID N R Schultz Co Boise.....208-377-8686
IA Palatine Eng & Sales Cedar
Rapids.....319-365-8071
MA Dynamic Sales of NE Burlington.....617-272-5676
MN Holmgren Assoc Mnpls.....612-786-7641
MO Palatine Eng & Sales Hazelwood.....314-839-0800
NJ Abbott Transistor Labs Fort Lee.....201-461-4411
OR N R Schultz Co Beaverton.....503-643-1644
TX Abbott Transistor Labs
Richardson.....214-437-0697
WA N R Schultz Co Bellevue.....206-454-0300
FR Source Electronics Rexdale ON.....416-675-6235

ABILITIES INC 10 WILLETTS BLVD
ALBERTSON NY 11507
TWX 510-220-0024.....516-PIT 5400
S SEISSLER EMP 170 ENG 8 \$2,500-\$5,000K

ABLE COMPUTER 3080 AIRWAY AVE
COSTA MESA CA 92626
TWX 910-595-1759.....714-979-7030
J OLSON EMP 250 ENG 29 OVER \$10,000K
AZ RML Assoc Phoenix.....602-246-0321
CO RML Assoc Denver.....303-757-6654
FL Col-Ins-Co Orlando.....305-423-7815
GA Abi-Computer Norcross.....312-675-6450
IL Mar-Com Assoc Skokie.....913-888-0215
KS Dytec-South Lenexa.....301-577-3700
MD Data Systems Mktg Lanham.....617-263-1128
MA R D Stout & Assoc Acton.....313-588-2300
MI WKM Assoc Madison Hts.....612-559-7550
MN Prairie Assoc Mnpls.....314-569-2990
MO Dytec-South Inc Maryland Hts.....402-334-1222
NE Dytec-South Omaha.....505-892-2385
NM RML Assoc Rio Rancho.....516-225-1140
NY Data Sys Mktg W Islip.....516-225-1140
OH WKM Assoc Cleveland.....918-622-5708
OK Peripheral Products Tulsa.....503-684-1870
OR Group III Electronics Portland.....412-892-2953
TX Peripheral Products Plano.....214-423-4899
UT RML Assoc Salt Lake City.....801-942-4468
WA Group III Electronics Bellevue.....206-454-0150

ABLESTICK LABORATORIES 833
W 182 ST GARDENA CA 90248
TWX 910-346-7606.....213-532-9341
D LEFFEVER EMP 146 ENG 12
AZ Destech Sales Co Tempe.....602-831-5597
CA Olson Assoc Santa Clara.....408-727-1754
CO Colorado Tech Services
Colorado Springs.....303-598-0916
FL Rowe Electronics Casselberry.....305-339-0492
NH Doyle Sales Litchfield.....603-883-5999
NY Micrel Assoc Chappaqua.....914-238-4961
NY Watmet Inc Lewiston.....716-285-3595
NC Interbit Inc Cary.....919-497-3200
PA E L Assoc Colmar.....215-822-2510
TX Waddle Sales Co Dallas.....214-638-2860
WA Mars Bellevue.....206-747-3292
WI Process Technology Hales Corners.....414-425-2940

ABM SEMICONDUCTOR INC 50
W BROOKAV RD SAN JOSE CA 95110
TWX 510-600-1814.....408-297-7477
Y KURAHASHI EMP 4 ENG 2
AL DTM Inc.....205-536-5938
CA OME Supply.....916-972-7507
CA Fiberoptic Systems Inc.....805-583-2088
CO Dynatech, Inc.....303-773-2830
CT Phoenix Sales Co.....203-438-9644
GA DTM Inc.....401-447-6832
MD Grimm Electronics.....304-744-3254
MA D Taggart Assoc.....617-828-6064
MN Microelectronic Sales.....612-944-1230
NC DTM Inc.....919-878-0909
UT Dynatech, Inc.....801-546-4837
FR Solid State Engineering Co.....514-481-3313

CA KEA Electronics Hayward.....415-887-2900

ABRAMS INSTRUMENT CORP BOX 26007
LANSING MI 48909
TWX 810-251-0785.....517-332-6405
M GATES EMP 50 ENG 5 \$1,000-\$2,500K
CA Jewett Co N Hollywood.....789-8103
CT N-B Assoc New Preston.....203-283-5959
KS Thunderbird Tech Sales
& Serv Wichita.....684-3941
MO Thunderbird Tech Sales
& Serv St Louis.....542-6488

ABSCOA INDUSTRIES 3160
W EL SEGUNDO BLVD HAWTHORNE
CA 90250 TWX 910-328-6180.....213-970-0886
R BUDD EMP 30 ENG 2 \$5,000-\$10,000K
CA Abscoa Industries San Diego.....714-277-5530
NY Abscoa Industries Hawthorne.....914-747-0500

ACC ELECTRONICS AN ECHLIN CO
1300 W OAK INDEPENDENCE
KS 67301 TWX 436-483.....316-331-1000
L E ALLEN EMP 1000 ENG 18 OVER \$10,000K
ADV PG 370

ACCESSORIES FOR ELECTRONICS INC
800 MERRICK RD BALDWIN
NY 11510.....516-546-1751
EMP 15 ENG 2 \$500-\$1,000K

ACCU DYNE CORP BOX 1429
JANESVILLE WI 53547.....608-752-9081
R MOWRIS EMP 300 ENG 20 OVER \$10,000K

ACCUMET ENGINEERING CORP
518 MAIN ST HUDSON MA 01749.....617-568-8313
J SNOOK EMP 40 ENG 2 \$2,500-\$5,000K
MD Spectro-Lambda Pasadena.....301-437-7633
NJ Micro-Lambda Inc E Windsor.....609-443-3113
NY Micrel Inc Chappaqua.....914-238-4961

ACCUPOINT INC 70 INDUSTRIAL AVE
LOWELL MA 01852
TWX 710-343-1958.....617-454-4999
R HAMEL EMP 50 ENG 10

ACCURATE ELECTRONICS CORP
BOX 1287 ELYRIA OH 44036.....216-365-1211
J SEYBOLD EMP 35 ENG 4 \$1,000-\$2,500K

ACCURIDE 12311 S SHOEMAKER AVE
SANTA FE SPRINGS CA 90670
TWX 910-586-1632.....213-944-0921
M HART ENG 20

CA Accuride Pleasanton.....408-554-7813
CO Accuride Englewood.....303-694-4775
IL Accuride Sales Lockport.....312-843-2585
MA Accuride Holliston.....617-429-2474
MI Accuride Holland.....616-392-3446
MN Gibb Elctn Sales Minnetonka.....612-935-4600
NH Accuride Nashua.....603-886-0826
NJ Components For Electronics
Mountain Lake.....201-334-2921
NY Accuride Rochester.....716-227-5835
NY Accuride Carmel.....914-277-3879
NC Accuride Thomasville.....919-475-8761
OH Accuride Olmsted Falls.....216-235-8538
PA Accuride Havertown.....215-525-0464
TX Accuride Dallas.....214-991-4233
WA Rep-West Seattle.....206-283-8351
FR Beaver Marketing N Vancouver BC.....604-985-5824

ACCUSION SYSTEMS CORP
2101 JERICHO PK NEW HYDE PARK
NY 11040.....516-328-3300
D WISEN EMP 15 ENG 1 \$1,000-\$2,500K

ACCUTEST 25 INDUSTRIAL AVE
CHELMSFORD MA 01824
TWX 710-347-0620.....617-256-8124
T EMERY EMP 250 ENG 40 OVER \$10,000K

AZ Accutest Corp Mesa.....602-894-9233
CA Accutest Corp Anaheim.....714-630-6343
CA Accutest Corp San Jose.....408-946-8025
FL Accutest Corp St Petersburg.....813-576-9567

ACDC ELECTRONICS DIV EMERSON
ELEC CO 401 JONES RD
OCEANSIDE CA 92054 TWX 350227.....619-757-1880
L SLAGAL EMP 1000 ENG 47 OVER \$10,000K
CA Acacia Sales Sunnyvale.....408-745-7200
MN Cahill, Schmitz & Cahill St Paul.....612-646-7217

A C D CORP 1336 STANLEY AVE
DAYTON OH 45404.....513-222-2600
M LINCOLN EMP 55 ENG 4 \$1,000-\$2,500K

ACHESON COLLOIDS CO BOX 288
PORT HURON MI 48060
TWX 810-231-5265.....313-984-5581
J CONIGLIO EMP 220 ENG 25

CA D French Covina.....213-353-0414
CA L B Allison Santa Clara.....408-247-7767
GA F T O Toole Atlanta.....404-451-7452
IL E Egloff Chicago.....312-664-2032
MO K J Hollstrom 4312 E 110 St KC.....816-966-0323
NJ D Delaney Manasquan.....201-353-0414
NY W D Signer Rochester.....716-381-7610
PA J F Murray Box 345 Exton.....215-363-6646

ACI AUROR COMMUNICATIONS INC
2700 LANCASTER RD OTTAWA
ON K1B 4T7 TWX 0533172.....613-523-9933
R WELLAND EMP 30 ENG 8 \$2,500-\$5,000K

ACI DATA PRODUCTS INC 17921
SAMPSON LA HUNTINGTON BEACH
CA 92647 TWX 655328.....714-842-2945
EMP 15 ENG 3 \$2,500-\$5,000K

CA McKnight Co San Jose.....408-942-0880
FL SEMI Casselberry.....305-831-2822
GA Mountain Electro Norcross.....404-448-5594
IL Electra Sales Naperville.....312-369-8240
MA Forsberg Sales Taunton.....617-824-3840
MI Genesis Ann Arbor.....313-439-8201
NV Unitronics Reno.....702-825-1978
NY L Tronix Hicksville.....516-935-022C
OR Power Sources Portland.....503-292-082C
TX Mil-Rep Richardson.....214-644-6731
WA Power Sources Lynnwood.....206-743-6641

A C INTERFACE INC 17911
SAMPSON LA HUNTINGTON BEACH
CA 92647 TWX 655328.....714-841-609C
H BECKER EMP 15 ENG 3 \$5,000-\$10,000K

ACKERMAN GOULD CO INC 125
WILBUR PL BOHEMIA NY
11716-2400 516-589-2000
EMP 20 ENG 3

ACL INC 1960 E DEVON AVE
ELK GROVE VILLAGE IL 60007
TWX 4330251 312-981-9212
B DALE EMP 10

DISTRIBUTORS

CA Biggam Entrp San Jose 408-298-6810
CA VWR Scientific San Francisco 415-468-7150
CA South Pak Doraville 404-452-0773
L American Scientific Prods
Mogaw Park 312-689-8410
MA Riley & Geehr Chicago 312-327-8100
MA Julie Assoc Billerica 617-667-1958
NJ Rae Stat Denville 201-625-8084
NJ Arbell Burlington ON 416-757-8703

ACME DIV ALLIED PRODS CORP
BOX 1404 NEW HAVEN CT 06505 203-562-2171
T BIANCO EMP 80 ENG 7

ACME ELECTRIC CORP 125
S UNION ST OLEAN NY 14760 716-968-2400
M HESKETH EMP 1200 ENG 35 OVER \$10,000K

ACME ELECTRIC CORP BEEHIVE DIV
5416 W AMELIA EARHART DR
SALT LAKE CITY UT 84116
TWX 5106003087 801-539-0227
EMP 300 OVER \$10,000K

ACME ELECTRIC CORP ELECTROGUARD
DIV 125 S UNION ST OLEAN
NY 14760 716-373-3255
\$1,000-\$2,500K

ACME ELECTRIC CORP ENGINEERED
PRODS DIV 20 WATER ST CUBA
NY 14727 TWX 532493 716-968-2400

ACME ELECTRIC CORP TRANSFORMER
DIV RT 4 BOX 54 LUMBERTON
NC 28358 TWX 556219 919-738-4251
EMP 180

ACME MODEL ENGINEERING CO
654 BERGEN BLVD RIDGEFIELD
NJ 07067 201-943-7650
L PARKS EMP 16 ENG 1

ACOPIAN CORP BOX 638 EASTON
PA 18044 TWX 510-6514919 215-258-5441
T SKOPAL

AL Acoopian Corp Melbourne 305-727-1172
AD Doss Electronics Ellicott City 301-465-1336

ACOSTONE CORP 80 WYTHE AVE
BROOKLYN NY 11211 718-782-5560
G BACKER EMP 50 ENG 1

CA Meyer & Ross Burlingame 415-348-6800
CA Tequi-Rep Sun Valley 818-768-4223
CA Stan Silz & Assoc Louisville 303-666-4760
L Bencisk Assoc Ocala 904-732-9775
N Ken Levy & Assoc Chicago 312-763-5000
N Jim Church Market Bloomington 812-334-0383
AA R G Assoc Stow 617-897-7146
AI Ted Firaneck Sales Pontiac 313-373-9595
AI Kodo Assoc Mpls 612-881-1255
AO C A Vignola Assoc Jefferson City 314-636-3121
AY Jack Brown Assoc Whitestone 718-767-1977
AY J Mesnick Sales Liverpool 315-622-3211
AC Adams & Assoc Greensboro 919-272-6838
JR Repronics St Marys 419-394-4724
JR R Minthorne Co Portland 503-246-4556
A Richard Lewis Sales Glenside 215-886-1555
N L Jones Memphis 901-683-7616
X C Wells Fort Worth 817-284-0261
JR Morhan Export Plainview 516-293-5582
JR E D Magnus & Assoc Chicago IL 312-679-6070
JR White Radio Ltd No Vancouver BC 604-984-4301

ACR ELECTRONICS INC 5757
RAVENSWOOD RD FT LAUDERDALE
FL 33312 TWX 51-9645 305-981-3333
G WOODS EMP 280 ENG 9

ACRODYNE INDUSTRIES INC
516 TOWNSHIP LINE RD
BLUE BELLA PA 19422
TWX 510-661-7265 215-542-7000
J WOZNAK EMP 50 ENG 12

ACROMAG INC 30765 WIXOM RD
WIXOM MI 48096 TWX 247354 313-624-1541
W CAREY EMP 116 ENG 21 \$5,000-\$10,000K

AZ And Controls Tucson 602-293-1730
CA Eletek Systems Laguna Hills 714-830-4856
CA Sharman Inc Walnut Creek 415-947-5771
CA Tech Mktg & Mfg Lakewood 303-232-1516
L Leroy E Rogers Co Ruskin 813-645-1453
CA Freeman Equip Atlanta 404-938-1227
L Carvel Engrg Hoffman Est 312-885-8800
N Process Controls Corp Indpls 317-259-1316
A Dy-Troxin Cedar Rapids 319-377-8275
S Dave Allert Co Shawnee Mission 913-831-4244
A Devitt Pancost Controls
Inc Baton Rouge 504-291-0074
AD Koch Assoc Cockeysville 301-666-7040
AA Bordewieck Eng & Sales
Co Norwell 617-659-4915
AI Geo R Peters Assoc Troy 313-362-1220
AI Shertron Co Marquette 906-228-6540
AI Bican Co Cedar 612-434-7733
AD Dy-Troxin Inc Raytown 816-356-6340
J J Koch Assoc Blackwood 609-227-5000
Y Analog Instr E Syracuse 315-437-8413

NY Chippewa Instr Buffalo 716-838-5050
NY Flowmaster Controls Co New York 212-741-9675
NC W K Hille & Co Matthews 704-847-9125
OH Jay Ind Sales Cleveland 216-831-9393
OH George Drysdale Assoc Cincinnati 513-528-2200
OK Dave Allert Co Tulsa 918-743-7705
OR McLaren Inc Portland 503-297-2248
PA Instrument Svcs Bridgeville 412-221-3601
TN Mel Watson Co Memphis 901-345-0890
TN Hile Controls of TN Knoxville 615-584-0208
TX Pan/Tech Engrg Corp Sugarland 713-240-1220
TX Daco/Dave Allert Co Irving 214-986-1506
TX Collier Equip Corp Corpus Christi 512-289-6181
UT Specialty Sales Co West Jordan 801-561-0222
VA Hile Controls of VA Chester 804-796-3001
WA McLaren Inc Bellevue 206-544-3400
WV Instrument Svcs Charleston 304-345-0348
WI Carvel Engrg Sheboygan 414-457-8800
FR Willer Engrg & Sales Willowdale ON 416-499-4421
FR Telematic Controls Edmonton AB 403-436-0511

ACROMARK CO INC THE 60
LOCUST AVE DPT 650 BERKELEY
HEIGHTS NJ 07922 201-464-6474
W SCHMIDT EMP 50 ENG 3 \$1,000-\$2,500K
AZ D Jones Phoenix 602-954-8505
CA Technical Methods Hermosa Beach 213-374-1789
FL MacGregor Assoc Clearwater 813-446-7310
GA MacGregor Marietta 404-973-1692
IL Schiffer Asso Chicago 312-847-2400
MI Industrial Systems Bloomfield Hills 313-338-7230
MO MAKE Sales St Louis 314-432-6011
NH Process Technologies Atkinson 603-382-8567
NY Taggart Assoc Penfield 214-245-0261
NC MacGregor Assoc Charlotte 704-542-6001
OH Spur Assoc Columbus 614-471-0586
OR Shaw Tech Sales Lake Oswego 503-635-8111
TN MacGregor Memphis 901-386-2349
TX Thermo Reps Carrollton 214-245-0261

ACRO SWITCH 333C STRAWBERRY
FLD RD BOX 6910 WARWICK
RI 02886 401-738-4360
R JACKSON EMP 50

ACROSYS SYSTEMS CORP 66 CHERRY
HILL DR BEVERLY MA 01915 617-927-8880
H TOBEY
AL Lee Assocs Huntsville 205-533-5896
AZ Dave Menegay Assoc Scottsdale 602-994-9519
CA RDX Corp Pasadena 213-681-3451
FL VK Sales Winter Park 305-657-0837
IL Automation Sales Bensenville 312-595-5708
KS Advanced Ind Systems
Overland Pk 913-432-8065
MA FLW of New Eng No Reading 617-664-0116
MN Mark Co Mpls 612-933-3026
NY Syronics Inc Liverpool 315-451-0968
NY Neville & Vespo Corp Thompson Ridge 914-457-9209
NC Lee Assocs Raleigh 919-848-8818
OH Stress Analysis Svcs Medina 216-725-7733
PA PDC Corp Jenkintown 215-887-9610
TX Abcor Inc Houston 713-486-9251
UT Mgmt & Control Consultants SLC 801-364-3174
FR Webster Instr Ltd Mississauga ON 416-625-0600

ACROTECH 570M W LAMBERT RD BREA
CA 92621 714-529-4666
J BLESSUM EMP 15 ENG 3 \$250-\$500K
FR Intertechnology Don Mills ON 416-445-5500

DISTRIBUTORS

FL Tare Inc Oldsmar 800-237-6422
NJ Totalcomp Inc Fairlawn 800-631-0347

ACTION INSTRUMENTS INC
8601 AERO DR SAN DIEGO
CA 92123 TWX 910-335-2030 619-279-5726
F WILLIAMS EMP 250 ENG 25 OVER \$10,000K

AL SESCO Birmingham 205-988-8304
AK Engineered Equipment Anchorage 907-276-4050
AZ Williams Assoc Scottsdale 602-947-4297
CA Electronic Engrg Assoc
San Carlos 415-593-2189
CA Western Automation Laguna Hills 714-859-6988
CO Frontier Indus Controls Denver 303-534-5065
FL SESCO St Petersburg 813-576-6991
GA SESCO Atlanta 404-458-6423
IL Patrick & Douglas Lombard 312-971-1800
IN Tech Sales & Mktg Indpls 317-849-6612
KS Carlton Co KC 816-363-5300
LA SESCO Baton Rouge 504-928-4951
MI Anderson Elctns Farmington Hls 313-553-7600
MN Trask Engrg Mpls 612-537-2434
MT Marcum Instr Svcs Billings 406-259-9901
NJ Techtrol Emerson 201-967-7640
NM Rustco Enterprises Albuquerque 505-292-2741
NY Naco Elctns No Syracuse 315-699-2651
NY Naco Elctns Utica 315-699-2651
NC SESCO Raleigh 919-467-7482
OH RDP Dayton 513-253-6175
OK SESCO Tulsa 918-622-3868
OR Brett-Ross Portland 503-256-9727
PA Wainwright Tech Sales Pittsburgh 412-487-5055
TX SESCO Austin 512-892-2490
UT Control Systems SLC 801-364-6425
WA Brett-Ross Kirkland 206-821-4903
WI T R Bickler Assoc Wauwatosa 414-784-2600

ACTION LABS INC 425 BEST RD
WOODVILLE WI 54028 715-698-2525
T THOMPSON EMP 50 ENG 1 \$500-\$1,000K
MN Willman Assoc 612-566-5010

ACTIVE ALLOYS INC 1089
E GRAND ST ELIZABETH NJ 07201 201-351-9500
S ROBBINS EMP 20 \$500-\$1,000K

A C TRANSFORMER CORP 89
MADISON ST NEWARK NJ 07105 201-589-8574
G GIANGRANDE EMP 14 ENG 2 \$500-\$1,000K

ACUREX AUTODATA 555 CLYDE
AVE BOX 7555 MOUNTAIN VIEW
CA 94039 415-964-3200
R LADWIG EMP 700 ENG 150 OVER \$10,000K

AL Kemp Instruments Co Huntsville 205-837-4304
CA Jay Stone & Assoc Los Altos 415-948-4563
CA INSS Inc Irvine 714-250-0320
CO Emcar Mktg Inc Arvada 303-424-0108
FL Datatrep Inc Orlando 305-843-5224
GA Kemp Instruments Co Atlanta 404-452-8050
IN Stress Anal Svcs Plainfield 317-839-8235
KS Advanced Industrial Systems
Overland Pk 913-432-8065
MI Stress Analysis Svcs Hartland 313-632-6110
MN Trask Engineering Mpls 612-537-2434
MO Advanced Ind Sys Ellisville 314-391-0366
NJ Neville Assoc Spring Lake Hts 201-974-1520
NM Hannah-Hill Los Lunas 505-865-5767
NY Vespo Mktg Montgomery 914-457-9209
NC Walk-Man Instruments Charlotte 704-375-3132
OH Stress Analysis Svcs Medina 216-725-7733
OK Acudata Inc Stillwater 405-743-1886
PA PDC Corp Jenkintown 215-887-9610
TX Acudata Inc Plano 214-424-3567
WA Unit Process Co Kirkland 206-827-0433

ADAC CORPORATION 70 TOWER
OFFICE PK WOBURN MA 01801
TWX 951802 617-935-6668
L SILVERN EMP 75

AZ RML Assoc Phoenix 602-246-0321
CA Adac Corp L A 213-476-6535
CA Adac Corp Cupertino 408-973-7829
CO RML Assoc Denver 303-757-6654
FL E G Holmes & Assoc Orlando 305-894-8901
GA E G Holmes & Assoc Chamblee 404-451-6161
KS Ramsey Assoc Lenexa 913-541-1007
MO Ramsey Assoc St Louis 314-878-5042
NJ Sci-Rep Marlton 609-596-4447
NM RML Assoc Rio Ranch 505-892-2385
NY DB Assoc De Witt 315-446-0220
NC E G Holmes & Assoc Cary 919-469-8850
OR Brett-Ross Inc Portland 503-256-9727
TX Adac Corp Houston 713-771-9347
UT RML Assoc Salt Lake City 801-942-4468
WA Brett-Ross Inc Kirkland 206-821-4903

ADAMS MACDONALD ENTERPRISES INC
2999 MONTEREY/SALINAS HWY
MONTEREY CA 93940 TWX 882141 408-373-3607
S ADAMS EMP 4

ADAMS RITE PRODUCTS INC
540 W CHEVY CHASE DR GLENDALE
CA 91204 TWX 910-497-2276 818-241-5121
R SNYDER EMP 130 ENG 6 \$5,000-\$10,000K

ADAMS-RUSSELL CO INC RT
110 HAVERHILL RD AMESBURY
MA 01913 TWX 710-347-6360 617-388-5210
DRYAN EMP 350 ENG 30 OVER \$10,000K

CA RDH Assoc Box 91251 L A 213-396-4100
CA Dura Cupertino 408-255-2084
GA Repco Systems Robins AFB 912-923-8314
MA Russell Engrg Svcs Lowell 617-458-7146
MO W E B Assoc Box 597 Florissant 314-921-5720
NY CDB Enterprises Huntington 516-692-5200
TX N & W Sales Inc Arlington 817-461-4443
UT Logistic Spec Consultants
No Salt Lake 801-292-3030
WA Gentech Redmond 206-881-6456

DISTRIBUTORS

AZ Sierra Tech Group Tempe 602-894-2335
MD Delmarva Eng Ltd Severna Park 301-647-8007
MN Deerland Distributors Mpls 612-331-6433
NJ F & M Tech Sales Glen Gardner 201-832-7216

ADAMS-RUSSELL CO INC ANZAC DIV
80 CAMBRIDGE ST BURLINGTON
MA 01803 TWX 710-332-0258 617-273-3333
J PARKER EMP 300 ENG 22 OVER \$10,000K

AL Hughes Assoc 2913 Gov Dr Huntsville 205-837-4304
AZ Faser Tech Sales 11421 N 66 St Scottsdale 602-973-1000
CA Thorson West 625 Ellis St Mt View 415-964-9300
CA Adams-Russell 2192 Dupont Dr Irvine 714-851-1022
FL Precision Mktg Svcs Box 9258 Coral Springs 303-597-5343
IL Feller Assoc 550 Frontage Northfield 312-424-3567
KS Midwest Tech Sales 8015 W 63 St Merriam 913-424-3567
MD R L Engrg Box 100 Davidsonville 410-321-1000
MA Russell Eng Services 965 Chelmsford Lowell 617-273-3333
NM J Smith Assoc 524 Chama NE Albuquerque 505-292-2741
NY Lightstone Corp 8446 Tuttle Rd Bridgeport 203-336-1000
NY Phase Four 277 Northern Blvd Great Neck 516-461-4443
OH Technical Sales Assoc 1928 Brompton Cleveland

PA Wm Assoc 910 Denston Dr Ambler 215-533-9108
TX Adams-Russell Box 344682 Dallas 602-267-0981
WA Datacom Assoc 1616 Bigelow Av Seattle 206-881-6456

ADAMS-RUSSELL MODPAK 80
CAMBRIDGE ST BURLINGTON
MA 01803 TWX 710-332-0258 617-273-3333
F WEBER EMP 5 ENG 1 \$500-\$1,000K

AL Hughes Assoc Huntsville 205-837-4304
AZ J Smith Assoc Phoenix 602-267-0981
CA Adams-Russell Irvine 714-851-1022
CA Thorson West Mtn View 415-964-9300
CO J Smith Assoc Colo Springs 303-597-5343
FL Precision Mktg Svcs Coral Springs 305-752-1700
GA Precision Mktg Svcs Perry 912-987-2555

KS	Midwest Tech Sales Merriam	913-236-8555
MA	Nand Services No Andover	617-688-6740
MS	Hughes Assoc Corinth	601-287-2915
MO	Midwest Tech Sales St Charles	314-441-1012
NM	J Smith Assoc Albuquerque	505-265-3046
NY	Lightstone Corp Bridgeport	315-699-5747
NY	Phase Four Inc Great Neck	516-482-1093
NC	Hughes Assoc Raleigh	919-833-0323
PA	WM Assoc Ambler	215-643-4119
TN	Hughes Assoc Morristown	615-587-2433
TX	Tri Tech Sales Dallas	214-247-3041
VA	Clifton Electronics Alexandria	703-755-5665
WA	Datacom Assoc Seattle	206-285-2525
FR	Soquelec Telecomm LTEE	
	Montreal PQ	514-482-6427
FR	Soquelec Telecomm LTÉE Nepean ON	613-226-1696

ADAPTEC INC	580 COTTONWOOD DR	
MILPITAS CA 95035	TWX 171-618	408-946-8600
H O'HARA EMP	130 ENG 30	
AZ	Glen White Assoc Huntsville	205-533-5272
AL	Luscombe Engineering Scottsdale	602-949-9333
CO	Simpson Assoc Littleton	303-794-8381
CT	Pioneer Hamden	203-288-7005
FL	Pioneer Fort Lauderdale	305-771-7520
GA	Glen White Assoc Norcross	404-441-1447
IN	G & A Sales Indpls	317-271-5183
IA	The Beams Co Des Moines	515-255-1148
KS	The Beams Co Shawnee Mission	913-631-0300
MD	Glen White Assoc Timonium	301-252-6360
MA	Datacom Waltham	617-891-4600
MI	G & A Sales Detroit	313-348-3811
MN	Electronic Innovators Eden Prairie	612-941-0830
MO	The Beams Co St. Louis	314-434-8448
NY	Crane & Egert Elmont	516-872-0800
NC	Glen White Assoc Raleigh	919-848-1931
OH	G & A Sales Cleveland	216-261-9705
OR	Electronic Sources Tigard	503-684-0040
PA	QED Willow Grove	215-657-5600
TN	Glen White Assoc Gray	615-477-8850
TX	Technical Concepts Austin	512-835-7604
UT	Simpson Assoc Midvale	801-566-3691
VA	Glen White Assoc Lynchburg	804-237-6291
WA	Electronic Sources Bellevue	206-451-3500

DISTRIBUTORS

AL	Pioneer Huntsville	205-837-9300
AZ	Wyle Labs Phoenix	602-249-2232
CA	Wyle Labs El Segundo	213-322-8100
CA	Wyle Labs Santa Clara	408-727-2500
CO	Wyle Labs Thornton	303-457-9953
CT	Pioneer Norwalk	203-853-1515
GA	Pioneer / Atlanta Norcross	404-448-1711
IL	Pioneer Elk Grove Vlg	312-437-9680
IN	Pioneer Indpls	317-849-7300
MD	Pioneer Gaithersburg	301-921-0660
MA	Pioneer Lexington	617-861-9200
MI	Pioneer Livonia	313-525-1800
MN	Pioneer Minnetonka	612-935-5444
NJ	Pioneer Pine Brook	201-575-3510
NY	Pioneer Vestal	607-748-8211
NY	Pioneer / Military Hauppauge	516-231-9200
NY	Pioneer / Military Fairport	716-381-7070
NY	Pioneer Woodbury	516-921-8700
NC	Pioneer Charlotte	704-527-8188
OH	Pioneer Cleveland	216-587-3600
OR	Almac Elctns Beaverton	503-641-9070
OR	Wyle Labs Hillsboro	503-640-6000
PA	Pioneer Horsham	215-674-4000
PA	Pioneer Pittsburgh	412-782-2300
TX	Pioneer Dallas	214-386-7300
TX	Wyle Labs Richardson	214-235-9953
TX	Pioneer Houston	713-988-5555
UT	Wyle Labs SLC	801-974-9953
WA	Almac Elctns Bellevue	206-643-9992
WA	Wyle Labs Bellevue	206-453-8300
FR	Zentronics Vancouver BC	604-273-5575
FR	Zentronics Calgary AB	403-272-1021
FR	Zentronics Winnipeg MB	204-775-8661
FR	Zentronics Toronto	416-451-9600
FR	Zentronics Montreal PQ	514-735-5361

ADAX INC	6961 PEACHTREE IND BLVD	
NORCROSS GA 30071	TWX 707355	404-662-1504

ADCOTECH CORP	1980 TAROB CT	
MILPITAS CA 95035		
TWX 910-338-2333		408-943-9430
B SENDELL EMP	125 OVER \$10,000K	
AZ	Adcotech Mesa	602-838-9130
GA	More Marietta	404-992-5172
MA	Marketing East Framingham	617-879-3355

ADC TELECOMMUNICATIONS		
4900 W 78TH ST MINNEAPOLIS		
MN 55435	TWX 910 576-2832	612-835-6800
J BRANDMUELLER EMP	1,467 ENG 60	

A D DATA SYSTEMS INC	200	
COMMERCE DR ROCHESTER		
NY 14623	TWX 510-253-3246	716-334-9649
J PETZ EMP	50 ENG 5 \$1,000-\$2,500K	
AZ	Trembly Assoc Tempe	602-967-2058
CA	Amasco Carson	213-516-8561
CO	Trembly Assoc Wheat Ridge	303-421-8900
MD	Sel-Tronics Inc Silver Spring	301-589-3391
MA	Scheineff Assoc Reading	617-944-2304
NV	Scheinff Assoc Las Vegas	702-739-9770
NJ	Judson Corp Red Bank	201-741-6298
NM	Trembly Assoc Albuquerque	505-266-8616
OH	Technical Sales Lyndhurst	216-461-0826
PA	Scientific Devices 215 N Main N Wales	
TX	Scientific Devices Richardson	214-231-8106
UT	Trembly Assoc SLC	801-486-5292
WA	DATACOM Assoc Seattle	206-285-2525

ADDITIVE PRODUCTS DIV KOLLMORGEN		
CORP WEST LANE AQUEBOGUE		
NY 11931	TWX 510-220-0022	516-722-4100
B HEGARTY EMP	400 OVER \$10,000K	
CA	Earle Assoc San Diego	619-278-5441
CT	Whitehead Assoc Meriden	203-634-1280
IL	Wavan Assoc Itasca	312-773-3560
IN	Wavan Assoc Indpls	317-842-7037
MA	Whitehead Assoc Wakefield	617-246-5070
NC	Wallace Elctn Sales Kernersville	919-996-2742
TX	Norcom Dallas	214-386-4888

ADDITIVE TECHNOLOGY CORP		
210 TYNGSBORO RD N CHELMSFORD		
MA 01863		617-251-4931
K PETERSON EMP	25 ENG 2 \$1,000-\$2,500K	

ADDMASTER CORP	416 JUNIPERO	
SERRA DR SAN GABRIEL CA 91776		
TWX 674770		818-285-1121
L WIRTZ EMP	500 ENG 15	

ADE CORP	77 ROWE ST NEWTON	
MA 02168	TWX 922415	617-969-0600
V REGAL EMP	180 ENG 40 OVER \$10,000K	
CA	Ade San Jose	408-946-4124
CA	Texel Informedia Seal Beach	213-596-9411
CO	Hannah & Hill Arvada	303-424-0108
FL	Periphix / Teospec Palm Harbor	813-785-2276
GA	ADE Corp Norcross	404-448-2917
MA	Production Devices Peabody	617-532-4411
MI	Lowell Wendt Mktg Livonia	313-464-2722
MN	Torkelson Assoc Mnpls	612-835-2414
MO	Palatine Engrg Hazelwood	314-839-0800
NJ	Scientific Repts Pensacola	609-662-5222
NY	Ossmann Inst East Syracuse	215-437-7052
OH	Abitec Co Euclid	216-531-9122
PA	Blason Enterprises Haverford	609-767-6733
TX	ADE Corp Plano	214-578-8099
VA	Scientific Repts Fairfax	703-385-0600
WI	ADE Corp Madison	608-222-7567

DISTRIBUTORS

CT	Intertrade Scientific Vernon	203-871-0401
PA	M Basara Blue Bell	215-834-0266
FR	Instrument Sales Ltd Toronto ON	416-677-1431

ADHESIVES RESEARCH INC	BOX 100	
GLEN ROCK PA 17327		
TWX 84-0454		717-235-7979
G CRAMER EMP	105 ENG 10	

ADIC BOX	2996 REDMOND WA 98073	206-881-8004
A BLACKSTONE		

ADIT CO	1525 KINGS HWY	
FAIRFIELD CT 06430		203-366-3861
S LEO EMP	75 ENG 8 \$1,000-\$2,500K	

ADRE CO INC	BOX 09415 MILWAUKEE	
WI 53209		414-352-3531
G HERRIDER EMP	1 UP TO \$100K	

ADISOR TECHNOLOGY INC		
3520 1/2 NE 85 ST BOX 51160		
SEATTLE WA 98115		206-523-6468
J DOLAN EMP	8 ENG 2 \$500-\$1,000K	

ADTECH INC	BOX 10415 HONOLULU	
HI 96816		808-941-0708
K WELDON EMP	15 ENG 6 \$500-\$1,000K	

ADTECH POWER INC	1620 S SUNKIST	
ANAHEIM CA 92806	TWX 681498	714-634-9211
D TSAMOUKAKIS EMP	65 ENG 3 \$2,500-\$5,000K	
CA	Sedillo Co Campbell	408-374-5220
CA	C C O'Reilly Camarillo	805-987-4818
MA	EML Electronics Stoughton	617-341-0781
NJ	Judson Corp Red Bank	201-741-6298
TX	Carey, McMahill & Berbe Co Houston	713-771-1500
WA	Showalter Instr Bellevue	206-746-7970

DISTRIBUTORS

CA	RPS Buena Park	714-521-5230
CA	Zack Palo Alto	415-326-5432
CA	Zack San Francisco	415-626-1444
CA	Metermaster L A	213-685-4340
IL	Newark Elect Chicago	312-638-4411
IL	Classic Components Northbrook	312-272-9650
LA	Ralph's Lafayette	318-233-0105
MD	MS Elect Rockville	301-340-6400
MA	Mac Bearing Co Woburn	617-933-2110
MI	LWC Distributors Livonia	313-464-7700
MN	Stark's Elect Mnpls	612-332-1325
MO	Olive Indus Elect St Louis	314-426-5500
NY	Summit Dist Buffalo	716-884-3450
PA	Philadelphia Elect Phila	215-568-7400
PA	Pioneer Horsham	215-674-4000
TX	Allied Elect Ft Worth	817-336-5401
WI	Industrial Electronics Milwaukee	414-276-1212

ADVA BOX	620181 WOODSIDE	
CA 94062		415-851-8354
B BROWN EMP	6 ENG 2 \$100-\$250K	

ADVANCE CARBON PRODUCTS INC		
171-E INDUSTRIAL WAY BRISBANE		
CA 94005		415-468-1670
H HYDE EMP	53	
CA	Wes Hoxeng Box 907 L A	213-628-3341
OK	Riddle & Hubbell Box 7573 Tulsa	918-743-9851
OR	Advance Carbon Prods Portland	503-224-2466

ADVANCE CONVERSION DEVICES CO		
274 S SALEM ST RANDOLPH		
NJ 07869		201-989-0095
D FEDDERLY EMP	25 ENG 6 \$500-\$1,000K	

ADVANCED CIRCUIT TECHNOLOGY INC		
BOX 547X NASHUA NH 03061		
TWX 710-228-8961		603-880-6000
EMP	130 ENG 10 \$5,000-\$10,000K	

ADVANCED COATINGS & CHEMICALS		
4343 TEMPLE CITY BLVD		
TEMPLE CITY CA 91780		
TWX 615594		818-579-6271
T HUGHES EMP	43 ENG 7	

ADVANCED COLOR TECHNOLOGY INC		
21 ALPHA RD CHELMSFORD		
MA 01824	TWX 951-419	617-256-1221
J CARREIRO EMP	50 ENG 5	

DISTRIBUTORS

AZ	PAR Assoc Phoenix	602-437-1488
CA	E M S Tustin	714-832-9921
MD	Barlett Assoc Rockville	301-231-9300
MA	Barlett Assoc Framingham	617-879-7533
NY	Barlett Assoc White Plains	914-949-6477
NY	Barlett Assoc Holcomb	716-657-6300
OR	Group III Electronics Portland	503-684-1870
PA	Barlett Assoc Norristown	215-666-7100
TX	Abcor Inc Houston	713-486-9255
WA	Group III Elect Bellevue	206-454-0125
FR	Megatronix Ltd Weston ON	416-742-8011

ADVANCED COMPONENTS INDUSTRIES		
INC 114 CENTER ST EL SEGUNDO		
CA 90245		213-322-4241
I SPREITZER EMP	4 ENG 1 \$100-\$250K	

ADVANCED CONTROL SYSTEMS CORP		
24 TEED DR RANDOLPH MA 02368		617-963-4541
L BRIC EMP	6 ENG 2 \$250-\$500K	

ADVANCED DETECTOR CORP		
15251 E DON JULIAN RD		
CITY OF INDUSTRY CA 91746		
TWX 910-584-4890		818-369-6888
S THORPE EMP	200 ENG 20 OVER \$10,000K	

AZ	Western High Tech Mktg	
	Scottsdale	602-949-0871
CA	Weseloh/Swanson Assoc Mtn View	415-961-0566
CO	Piper Sales Longmont	303-651-2371
GA	Hollingsworth & Still Norcross	800 241-5711
IL	Hill Sales Corp Buffalo Grove	312-541-0666
KS	Rep-tronics Olathe	913-764-1077
MA	Poulin Assoc Sudbury	617-443-7330
MI	Engineered Comp Inc Brooklyn	517-592-3233
MN	Furber Sales Minneapolis	612-881-3620
MO	Rep-tronics St Louis	314-576-9811
NY	Pacnet Eng Corp Great Neck	516-482-4671
NY	R J Kennedy Co Rochester	716-271-6332
NC	Zim-Tek Fayetteville	919-488-4171
OH	Engineered Components Cincinnati	513-474-2943
OR	Components Technology Portland	503-292-1511
TX	Moore Assoc Richardson	214-690-4923
UT	Piper Sales SLC	801-466-9333
VA	Beacon North Inc Fairfax	703-591-1300

ADVANCED ELECTRONIC PACKAGING		
2159 BAY ST LOS ANGELES		
CA 90021		213-622-9041
D HILL EMP	30 ENG 10	

ADVANCED ELECTRONICS DESIGN INC		
440 POTRERO AVE SUNNYVALE		
CA 94086-3632	TWX 357498	408-733-3555
L DROZDOWSKI EMP	100 ENG 12 OVER \$10,000K	
CA	Advanced Elctns Design LA	213-498-6711
IL	Advanced Elctns Design Chicago	312-858-7300
MA	Advanced Elctns Design Boston	617-272-4501

ADVANCED FILTER DEVICES INC		
6241 YARROW DR CARLSBAD		
CA 92008		619-438-2071
EMP	60 ENG 3 \$5,000-\$10,000K	

ADVANCED HIGH VOLTAGE CO INC		
BOX 2136 LANCASTER CA 93539		818-997-7221
J RICHARDSON EMP	13 ENG 2	

ADVANCED INPUT DEVICES		
W 250 A I D DRIVE COEUR		
D'ALENE ID 83814		
TWX 510-776-0584		208-765-8000
J OVERBY EMP	500 ENG 50 OVER \$10,000K	

AL	Remco Huntsville	205-533-3763
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Electro Tech Assoc Mnpls	612-927-5878
TAM Cedar Knolls	201-285-9094
TAM So. Hauptpaug	516-348-0800
Net Sales Co Fairport	716-467-4538
Imagtron Sales Co Pikesville	717-763-9577
Control Agency SLC	801-972-8788
Ransom Co Lynnwood	206-775-0222
Pipe-Thompson Ltd Islington	416-236-2355

DISTRIBUTORS

Electronic Hardware Ltd Tempe	602-967-1691
Cameo Elect Comps Phoenix	602-269-6201
Electronic Hdw Ltd No Hollywood	818-982-6100
Electronic Hdw Ltd Santa Clara	408-988-1000
Sierra West Elect Sunnyvale	408-747-1188
J V Electronics Co East Haven	203-469-2321
Cobra Components Norwalk	203-847-6442
Action Electronics Melbourne	305-242-3456
Lo Dan Electronics Arlington Hts	312-398-5311
Wm B Allen Supply Co New Orleans	504-525-8222
Axis Electronics Gaithersburg	301-840-9640
Cameo Electronics Owings Mills	301-363-6161
J V Elect of Boston Wilmington	617-273-4300
Electronic Pkg Components Canton	617-821-2111
Vantage Components Clifton	201-777-4100
Tonar Industries Rockaway	201-586-9000
Masline Electronics Rochester	716-546-5373
Vantage Components Commack	516-543-2000
Armor Elect Gahana	614-471-9588
Cal-Greg Components Warwick	401-884-5100
J V Elect Houston	713-447-5800
Western Controls No. Salt Lake	801-292-5900
Oman & Assoc Lynnwood	206-774-1887

ADVANCED KINETICS INC 1231 VICTORIA ST COSTA MESA CA 92627 TWX 18-2714	714-646-7165
M BARKER EMP 35 ENG 17 \$500-\$1,000K	

ADVANCED MATRIX TECHNOLOGY INC 1157 TOURMALINE DR NEWBURY PARK CA 91320 TWX 286695	805-499-8741
R ROGERS EMP 95 ENG 12	

ADVANCED MICRO DEVICES INC 901 THOMPSON PL MS145 SUNNYVALE CA 94086 TWX 910-339-9280	408-732-2400
G BALZER EMP 14000 ENG 800 OVER \$10,000K	

Advanced Micro Devices Huntsville	205-882-9122
Advanced Micro Devices San Diego	619-560-7030
Advanced Micro Devices Denver	303-691-5100
Advanced Micro Devices Southbury	203-264-7800
Advanced Micro Devices Clearwater	813-530-9971
Advanced Micro Devices Norcross	404-449-7920
Advanced Micro Devices Itasca	312-773-4422
Advanced Micro Devices Indpls	317-244-7207
Advanced Micro Devices Dorsey	301-796-9310
Advanced Micro Devices Burlington	617-273-3970
Advanced Micro Devices Minnetonka	612-938-0001
Advanced Micro Devices Parsippany	201-299-0002
Advanced Micro Devices Woodbury	516-364-8020
Advanced Micro Devices Charlotte	704-525-1875
Advanced Micro Devices Columbus	614-891-6455
Advanced Micro Devices Portland	503-245-0080
Advanced Micro Devices Allentown	215-398-0006
Advanced Micro Devices Austin	512-346-7830
Advanced Micro Devices Bellevue	206-455-3600
Advanced Micro Devices Brookfield	414-782-7748

DISTRIBUTORS

I2 Santa Clara	408-988-3400
Hamilton / Avnet Elect Culver City	213-558-2121
Kierulff Elect Cypress	714-220-6300
Intermountain Technology Boise	208-322-5022
SAI Mktg Corp Indpls	317-241-9276
Lorenz Sales Cedar Rapids	319-377-4666
SAI Mktg Corp Brighton	313-227-1786
Lorenz Sales Lincoln	402-475-4660
Electronic Devices Albuquerque	505-884-2950
Nycom Inc East Syracuse	315-437-8343
Schwabe Elect Westbury	516-334-7474
Arrow Elect Melville	516-694-6800
Dolfuss Root & Co Dayton	513-433-6776
Dolfuss Root & Co Strongsville	216-238-0300
Dolfuss Root & Co Bridgeville	412-221-4420
X Hall-Mark Elect Dallas	214-343-5000
R2 Marketing SLC	801-595-0631
Almac Elect Bellevue	206-613-9992
Future Elect Pte Claire PQ	514-694-7710

ADVANCED PERIPHERALS INC 11000 CEDAR AVE CLEVELAND OH 44106	216-721-6665
R SIMONS EMP 8 ENG 3 UP TO \$100K	

ADVANCED POWER CORP/SMS LTD 10400 N TANTAU AVE CUPERTINO CA 95014 TWX 910-338-2319	408-255-9955
S BROOKS EMP 50 ENG 10 OVER \$10,000K	

Luscombe Engrg	602-949-9333
Great American Rep Co LA	714-954-0371
Power Assoc San Diego	619-275-0641
Luscombe Engrg	303-772-3342
Access Systems	603-888-8160
F & F Metro New York	516-482-4080
Franklin Sales	716-248-8251
Tesco	214-681-1376
Sales & Engineering Assoc	206-883-4999

ADVANCED PRODUCTS CO 33 DEFCO PARK RD NORTH HAVEN CT 06473 TWX 963409	203-239-3341
D PEIFFER EMP 100 ENG 6	
AZ Aero Indus Sales Phoenix	602-225-9597
CA E Wilcox So San Francisco	415-871-5350
CA E A Wilcox Co LA	213-723-6436
IL P Miles River Forest	312-366-3271
IN Dick Bigler Assoc Goshen	219-533-6740
IN T S Bowen Indpls	317-842-6999
IA WECO Engrd Sales Cedar Rapids	319-393-4310
MN John Beardsley & Assoc Bloomington	612-944-6791
MO Rothkopf & Assoc St Louis	314-961-4485
OH Tri-State Mktg Cincinnati	513-761-7993
TX Pace Tech Sales Houston	713-467-6655
WA E A Wilcox Co Seattle	206-243-5450
WI N L Kuehn Co Milwaukee	414-964-3300

ADVANCED RESEARCH & APPLICATIONS CORP 1223 E ARQUES AVE SUNNYVALE CA 94086 S WORKMAN	408-733-7780
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ADVANCED SEMICONDUCTOR INC 7525 ETHEL AVE NORTH HOLLYWOOD CA 91605 TWX 18-2651	818-982-1202
A KLEIN EMP 35 ENG 2 \$2,500-\$5,000K	
AZ Semi-Systems AZ Scottsdale	602-991-1151
CA Silicon Valley Sales Campbell	408-371-8814
CT Data Mark Inc Wallingford	203-269-4420
GA Electro-Sales Atlanta	404-394-1122
IL Synmark Sales Co Des Plaines	312-296-0180
NC Repco Mktg Raleigh	919-787-7887

ADVANCED STORAGE CONCEPTS INC 9660 HILLCROFT HOUSTON TX 77096	713-729-6388
D KEEFUS EMP 4 ENG 3	

ADVANCED SYSTEMS CONCEPTS INC 1440 N LAKE AVE PASADENA CA 91104 TWX 701 215	213-793-8972
J GREEN EMP 20 ENG 4 \$1,000-\$2,500K	

ADVANCE INDUSTRIES DIV OVERHEAD DOOR CORP 2002 FRENCH RD APPLETON WI 54911	414-739-6121
S GRANT EMP 130 ENG 1 \$5,000-\$10,000K	

AD-VANCE MAGNETICS INC 625 MONROE ST ROCHESTER IN 46975 TWX 810-290-0294	219-223-3158
K NIXON EMP 32 ENG 1 \$2,500-\$5,000K	
CA A-Tronics Woodland Hills	213-703-7212
CA Frauman Assoc Los Altos	415-941-0660
CT Abbott-Allison Meriden	203-237-9232
FL Gillum Sales Inc Orlando	305-857-2110
GA Rakes Engr & Mktg Corp Atlanta	404-447-6947
IL W G Broulette Assoc Westchester	312-345-6500
MN J H Hanson Edina	612-893-9960
NY R C Engrg Sales Commack	516-543-3325
OH Makin Assoc Cincinnati	513-871-2424
PA Eastern Components W Conshohocken	215-825-8610
TX Space Elctns Irving	214-251-3836
VA Eastern Components Manassas	703-471-1025

ADVANTEK INC 7750 W 78 ST MINNEAPOLIS MN 55435	
TX 910-578-3157	612-944-7654
J MAY EMP 10 ENG 4 \$2,500-\$5,000K	

ADVANTEST CORP 4-1 NISHI-SHINJUKU 2-CHOME SHINJUKU-KU TOKYO JAPAN TWX 232-4914	03-342-7500
H YASUI EMP 1218 OVER \$10,000K	

AED CORP 566 B AV NW NEW BRIGHTON MN 55112	612-636-6760
D SMITH EMP 10 ENG 3 \$2,500-\$5,000K	
MN Lee Collins Co Mnpls	612-788-3903

AEGIS INC 50 WELBY RD NEW BEDFORD MA 02745	617-998-3141
M LOFFRUONTO EMP 100 ENG 16	

AEG CORPORATION ROUTE 22 ORR DR BOX 3800 SOMERVILLE NJ 08876-1269 TWX 833409	201-722-9800
R GRAHAM	
ADV PGS 117,163,173,219,287,300,479, 510,515,520	

AZ Cantec Sales Tempe	602-829-0191
CA ATA Assoc San Clemente	714-498-7181
CA ATA Assoc Oceanside	619-967-9066
CA Cook Enterprises El Monte	213-686-2120
CA Cook Enterprises San Diego	619-695-9888
CA W W Posey Sunnyvale	408-746-0771
CO Western Region Mktg Westminster	303-430-8883
CT Ray Perron & Co Farmington	203-673-4825
FL Sigma Tech Assoc Clearwater	813-791-0271
FL L Farley Tampa	813-935-2782
GA Electramark Norcross	404-446-7915
IL Phase II Mktg Schaumburg	312-303-5092
MD V G Sales Co Annapolis	301-267-9830
MA Ray Perron Co Needham	617-449-6162
MN Robt W Marshall Mnpls	612-929-0451
NH Ray Perron & Co Dover	603-742-2321
NJ Sunday O'Brien Haddonfield	609-429-4013
NY ERA Commack	516-543-0510
NY P H Tronics Inc Syracuse	315-455-7346
NY M H Lynn Whitestone	718-352-9233
NC Zucker Assoc Raleigh	919-782-8433
OH Arthur H Baier Co Cleveland	216-461-6161
OR Electronic Comp Sales Tigard	503-245-2342
UT Western Region Mktg SLC	801-355-7239
WA Electronic Comp Sales Mercer Island	206-232-9301
FR Cantec Reps Brampton ON	416-791-5922

FR Cantec Reps Dollard Des Ormeaux PQ	514-683-6131
FR Cantec Reps Ottawa ON	613-725-3704

DISTRIBUTORS

AL Contact Elect Huntsville	205-881-9321
AZ Cetec/Future Phoenix	602-272-7951
CA Pacesetter Sunnyvale	408-734-5470
CA SAI Manhattan Beach	213-376-0861
CA Future Electronics San Jose	408-945-9100
CA Semiconductor Inc Tarzana	818-996-7400
CA Cetec/Future Chatsworth	818-900-0914
CA IEC Chatsworth	818-998-2200
CA IEC Sacramento	916-424-5297
CO Future Elect Westminster	303-650-0123
CO IEC Denver	303-292-6121
CT Future Elect Danbury	203-743-9594
FL Intertec Components Longwood	305-834-7777
FL Repron Tampa	813-855-4656
FL Semiconductor Inc Riviera Bch	305-842-0305
FL Future Elect Orlando	305-767-8414
FL SAI Altamonte Springs	305-831-6201
GA Repron Elect Norcross	404-446-1300
IL Repron Schaumburg	312-373-4830
IL Classic Components Northbrook	312-272-9650
IL IEC Hoffman Estates	312-843-2040
IN Mar Electronics Indpls	317-875-4510
IN Deeco Inc Cedar Rapids	319-365-7551
MD Future Elect Columbia	301-995-1222
MD General Radio Sply Columbia	301-997-6337
MA Future Elect Westboro	617-366-2400
MA SAI Woburn	617-938-5460
MA Repron Livonia	313-525-2700
MA Classic Components Mnpls	612-944-1167
MN Repron Elect Minnetonka	612-938-0000
NJ Semiconductor Inc Clark	201-396-1660
NJ General Radio Camden	609-964-8560
NJ Exact Inc Cherry Hill	609-429-6586
NJ General Components West Berlin	609-768-6767
NJ Future Elect Mt Laurel	609-778-7600
NM Electronic Devices Inc Albuquerque	505-881-2950
NY Plainview Elect Plainview	516-249-6677
NY SAI Farmingdale	516-293-2710
NY Future Elect Liverpool	315-451-2371
OH Repron Worthington	614-436-6675
OR IEC Beaverton	503-641-1690
TX Swico Inc Ft Worth	817-335-6521
TX Sherman Elect San Antonio	512-224-1004
UT Future Elect SLC	801-972-8489
UT IEC No SLC	801-298-1869
VT SAI Rutland	802-775-7126
WA IEC Bellevue	206-455-2727
WA Future Elect Bellevue	206-881-8199
WI Classic Components New Berlin	414-786-5300
FR Future Elect Pte Claire PQ	514-694-7710
FR Future Elect Ottawa ON	613-820-8313
FR Future Elect Downsview	416-438-5545
FR Future Elect Vancouver	604-438-5545
FR Future Elect Calgary	403-235-5325

AEHR TEST SYSTEMS 135 CONSTITUTION DR MENLO PARK CA 94025 TWX 910-373-2040	415-321-1580
K BLACKIE EMP 200 ENG 50	
AL Equipment Sales Co Huntsville	205-536-5399
CA Aehr Test Systems Irvine	714-955-2347
CT Equipment Sales Co Hamden	203-281-4578
FL Equipment Sales Co Altamonte Springs	305-339-2972
IL Len Felder Assoc Wheaton	312-665-9070
KS Dytec South Lenexa	913-888-0215
MA Equipment Sales Co Lowell	617-459-7000
MA Dytec North St Paul	612-645-5816
MO Dytec South Maryland Hts	314-569-2990
NJ K & J Assoc Wayne	201-696-5390
OR Northwest Test & Mgmt Tigard	503-246-0962
TX Aehr Test Systems Richardson	214-680-2347
WA Northwest Test & Mgmt Redmond	206-881-8857

AEMC CORP 99 CHAUNCEY ST BOSTON MA 02111 TWX 95-1073	617-451-0227
J HENDERSON	
CA Signal Enterprises Montrose	619-790-7848
CA G & R Sales Concord	415-827-1727
CO Nelson Co Denver	303-295-1017
FL Dick Cushing Rep Longboat Key	313-383-1070
GA J J Perry Reps Atlanta	404-237-8239
KY Neal Engrg Sales Co Louisville	502-267-8337
MD Electra-Tech Inc Perry Hill	301-256-2723
MA Atlantic Instr Services Westford	617-692-4143
MN CMI Corp Mnpls	612-566-6930
MO Delltron Co St Louis	314-869-4779
NJ Applied Process Instruments West Orange	201-325-2511
NY D & O Engrg Cazenovia	315-655-8602
NY D & O Engrg Youngstown	716-745-3915
NC Venture Assoc Raleigh	919-876-4775
OH Wagner-Sullivan Co Cleveland	216-464-8350
OR ROI Northwest Lake Oswego	503-636-2839
PA Instrumentation Specialties Co Phila	215-742-0898
TX HKC Sales Dallas	214-357-6366
VA Electra-Tech Dumfries	703-670-6962
FR La Soc Des Compteurs Pro Ltee Montreal PQ	514-273-8331
FR Canadian Dynamics Nova Ltd Vancouver BC	604-872-8106
FR Duncan Instr Ltd Weston ON	416-742-4448

AEROCOM 3090 S W 37TH AVE MIAMI FL 33133 TWX 264256	305-448-6503
T COLEMAN EMP 90 ENG 9 \$2,500-\$5,000K	
CA Aeronaual Electcs Sls LA	670-5166

AEROFLEX LABS INC S SERVICE RD PLAINVIEW NY 11803 TWX 510-224-6417	516-694-6700
H KULIK EMP 517 ENG 54 OVER \$10,000K	
KS Avionics Engrg Sales Co Wichita	316-264-6201
FR Frathom Corp NYC	212-687-9390

AEROFLEX LABS MAGNETIC PRODUCTS
DIV SOUTH SERVICE ROAD
PLAINVILLE NY 11803TXW 510
224-6417.....516-694-6700
A PIPITONE EMP 570 ENG 125 OVER \$10,000K

AEROFLEX LABS INC MICROELECTRONICS
DIV 35 S SERVICE RD PLAINVILLE
NY 11803 TXW 510-224-6417.....516-694-6700
H SEMBLER EMP 290 ENG 25 OVER \$10,000K
ADV PG 217

AZ Knight Co Phoenix.....602-994-1311
CA Knight Co Los Angeles.....213-670-2833
CA H B Marketing Los Altos.....415-941-4080
CA Knight Co San Diego.....619-743-5136
CO Parker Webster Co Parker.....303-841-4888
CT Multitronics Sales Co Simsbury.....203-651-0140
IL Feller Assoc Northfield.....312-446-8065
IA Feller Assoc Cedar Rapids.....319-364-0566
MD Micro-Comp Baltimore.....301-247-0400
MN International Electronics Mpls.....612-571-0000
NY Henley Overseas Sales New York.....212-687-9390
NY Nexus Technology Smithtown.....516-864-2263
TX Tesco Inc Garland.....214-681-1376
UT Parker Webster Co SLC.....801-266-9939
VA Micro-Comp Baltimore.....301-247-0400
FR Elcom GMB Inc Pte Claire PQ.....514-697-4556

AEROJET ELECTRO SYSTEMS CO
1100 W HOLLYVALE ST AZUSA
CA 91702 TWX 670-431.....818-334-6211
H MCKAY EMP 2184 ENG 850 OVER \$10,000K
CO Aerojet ElectroSys Colo Springs.....303-597-9904
DC Aerojet ElectroSys Washington.....202-828-6831
NJ Aerojet ElectroSys Denville.....201-625-9658

AERONAUTICAL ELECTRIC CO
5656 NORTHWEST HWY CHICAGO
IL 60646.....312-784-5200
EMP 25 ENG 1 \$500-\$1,000K
NY R E Breuer Co Pt Washington.....516-883-7810
FR A Deskin Sales Corp Markham ON.....416-495-1412

AEROSPACE AVIONICS INC
AIRPORT INTL PLAZA BOHEMIA
NY 11716 TWX 510-228-7889.....516-467-5500
J MCCABE EMP 550 ENG 50 OVER \$10,000K
CA Aerospace Avionics Long Beach.....213-498-7373
MO Thunderbird Tech St Louis.....314-567-6488
TX Aerospace Avionics Hurst.....817-284-2266

AEROSPACE KNOB CO DIV DUPREE INC
BOX 1797 CHINO CA 91708-1797.....818-442-4700
B BOWDRY EMP 50 ENG 5 \$1,000-\$2,500K
CA D2 Rep Co San Diego.....714-292-9001
KS R Elston Wichita.....316-682-7082
MA Gilway Sls Co Woburn.....617-935-4442
NY Harold B Heft Lynbrook.....516-599-3351
NY Glaslon Sales Rochester.....716-454-4741
WA E Neher Bellevue.....206-643-6652

AEROSPACE OPTICS INC 3201
SANDY LA FORT WORTH TX 76112
TWX 75-8461.....817-451-1141
R BORKOWSKI EMP 100 ENG 10 \$5,000-\$10,000K

AEROTECH INC 101 ZETA DR
PITTSBURGH PA 15238
TWX 710-795-3125.....412-963-7470
M MANIET EMP 140 ENG 20 OVER \$10,000K

AEROTRONICS SYSTEMS RIVERSIDE DR
CONTOCOOK NH 03229
TWX 710-366-1684.....603-746-4631
EMP 260 ENG 16 OVER \$10,000K

AEROVOX INC 740 BELLEVUE AVE
NEW BEDFORD MA 02745
TWX 710-344-6985.....617-994-9661
J CHMURA EMP 700 ENG 50 OVER \$10,000K

AL 20th Century Mktg Huntsville.....205-533-9281
AZ Interstate Mktg Scottsdale.....602-244-9050
CA Interstate Marketing Woodland Hills.....818-883-7606
CA Luscombe Engrg Co Campbell.....408-370-2020
CO Delta Sales Englewood.....303-799-0646
CT Jebco North Haven.....203-239-5369
DE H W Anderson Greenville.....202-655-2917
FL E P M Corp Orlando.....305-425-6149
GA 20th Century Mktg Stone Mountain.....404-292-7088
IL Carlson Elctn Sales Elk Grove Vlg.....312-956-8240

IN F J Campisano Co Indpls.....317-253-7651
IA Carlson Elctn Sales Cedar Rapids.....319-377-6341
MD Imigrator Sales Co Pikesville.....301-521-2020
MA John E Boeing Co Lexington.....617-862-2500
MI RC Nordstrom & Co Lathrup Vlg.....313-559-7373
MN Constrand Inc Mpls.....612-788-9234
MO Beneke & Mccaul Grandview.....816-765-2998
NM Hewitt & Assoc Albuq.....505-299-7746
NY Bob Dean Inc Ithaca.....607-257-1111
NY Contronic Assoc Melville.....516-249-0505
OH F J Campisano Co Cincinnati.....513-574-7141
OK Ammon & Rizos Yukon.....405-942-2552
OR Luscombe Eng Beaverton.....503-636-6664
PA F J Campisano Co Coarapolis.....412-264-5151
TN 20th Century Mktg Knoxville.....615-690-1618
TX Ammon & Rizos Houston.....713-781-6240
WI Carlson Elctn Sales Milwaukee.....414-476-2790
FR Cartwright-Southall Assoc Hamilton ON.....416-528-0294
FR Kaytronics Ltd Ville St Pierre PQ.....514-367-0101

DISTRIBUTORS

CA Ryno Elect San Diego.....714-292-6022
CA Marshall Indus El Monte.....213-686-0141
NH C & H Elect Hudson.....603-882-1313
NY Fairmont Elect Hauppauge.....516-231-3333

AFFILIATED MANUFACTURERS INC
US RTE 22 BOX 5049 NORTH
BRANCH NJ 08876
TWX 710-480-9234.....201-722-7100
C P BROWN EMP 115 ENG 12 OVER \$10,000K
AZ Affiliated Mfrs Inc Phoenix.....863-4111
CA Scrantom Engrg Costa Mesa.....979-6373
CA Meade Assoc Santa Clara.....748-1991
FL Wm J Irvine Co Sarasota.....955-9656
KS Electri-Rep Overland Pk.....649-2168
PA Micro-Tech Assoc High Point.....889-5606
TX Merino Sales Dallas.....661-0655
WA Demarest Seattle.....523-3210
WI Process Technology Hales Corners.....425-2940

AFN CORP 60 NEW BRUNSWICK RD
SOMERSET NJ 08873
TWX 710-480-4280.....201-560-1240
D ASCHER EMP 100 ENG 9 \$5,000-\$10,000K

AGEMA INFRARED SYSTEMS
550 COUNTY AVE SECAUCUS
NJ 07094 TWX 971355.....201-867-5390
B DRABIK EMP 25 ENG 5 \$2,500-\$5,000K
AL AGEma Montgomery.....205-271-1135
CA AGEma Los Gatos.....408-395-6811
CA AGEma El Segundo.....213-322-6257
IL AGEma Westmont.....312-789-0911

AGFA-GEVAERT INC 275 NORTH ST
TETERBORO NJ 07608
TWX 710-990-6137.....201-288-4100
EMP 515
CA Agfa-Gevaert Burlingame.....415-692-2432
CA Agfa-Gevaert LA.....213-552-9622
GA Agfa-Gevaert Atlanta.....404-955-4326
IL Agfa-Gevaert Oak Brook.....312-242-1951
MA Agfa-Gevaert Lexington.....617-861-6740
NJ Agfa-Gevaert Secaucus.....201-330-1800
TX Agfa-Gevaert Irving.....214-255-0505

AGF INC BOX 496 ELIZABETH
NJ 07207 TWX 844297.....201-352-2120
M DANZI EMP 90 ENG 15 \$2,500-\$5,000K
CT Stanley P Rockwell Co Hartford.....203-246-5621
OH A R Griesbach Co Cleveland.....216-333-3129

DISTRIBUTORS

NJ N M Knight Co Millville.....609-327-4855

AGRASHELL INC 275 KEYSTONE DR
BETHLEHEM PA 18017.....215-837-6705
D TINDALL EMP 36 ENG 5

AID ELECTRONICS INC 2618
ROCK ISLAND RD IRVING
TX 75060 TWX 910-860-5927.....214-790-4761
EMP 10 ENG 2 OVER \$10,000K
TX AID Electronics Houston.....713-955-6204

DISTRIBUTORS

TX Newark Electronics Dallas.....214-494-5911
TX Kent Electronics Richardson.....214-669-2600
TX Wallace Electronics Dallas.....214-340-0400
TX Arrow Electronics Dallas.....214-380-6464

AIE MAGNETICS DIV VERNITRON
701 MURFREESBORO RD NASHVILLE
TN 37210 TWX 554466.....615-244-9024
M ARVIN EMP 350 ENG 15 OVER \$10,000K
CA Nova Tronix Santa Clara.....727-9530
CO E & C Johnson Co Thornton.....457-2247
IA Seltex Sales Corp Cedar Rapids.....393-1114
MA AIE Div Vernitron Waltham.....899-5990
NJ DVS Co Lawrenceville.....882-1720
OR Luebbe Sales Co Cincinnati.....871-4211
OH DVS Inc Beaverton 503-641-5790
PA W3 Corp Washington Crossing.....215-493-4642
WA W3 Inc Seattle 282-8063

AIKEN ADVANCED SYS DIV AMSTAR
TECH PRODS INC 5901 EDSALL RD
ALEXANDRIA VA 22304
TWX 710-832-0612.....703-370-0900
C GILMER EMP 235 ENG 30

AZ Aiken Advanced Systems Tucson.....602-886-3219
CA Interface International Saratoga.....408-741-0265
CA WesTech Mktg Culver City.....213-870-9286
FL J Smith & Assoc Colo Springs.....303-597-5343
CO Barkman Assoc Melbourne.....305-254-1863
IL Feller Assoc Northfield.....312-446-8065
IA Feller Assoc Cedar Rapids.....319-364-0566
MA R J Sickles Assoc Lexington.....617-862-5100
NJ U S Tech Mktg Madison.....201-822-0595
NM J Smith & Assoc Albuquerque.....505-265-3040
NY Robtson Skaneateles.....315-685-5731
NY U S Tech Mktg Kings Park.....516-724-4250
WA Arva Hudson Bellevue.....206-455-0773
FR Valcom Guelph ON.....519-824-3220

AIMSCO INC 4024 22 AVE W
SEATTLE WA 98199
TWX 910-444-1333.....206-284-5563
C ERNST EMP 250 ENG 5 OVER \$10,000K

AIR-A-PLANE CORP 3040 VIRGINIA
BCH BL BOX 2496 NORFOLK
VA 23501 TWX 823-417.....804-622-5761
S LEININGER EMP 300 ENG 8 OVER \$10,000K

AIRBORN INC 4321 AIRBORN DR
ADDISON TX 75001
TWX 910-860-5230.....214-931-3200
W CLARK EMP 360 ENG 4 OVER \$10,000K

AIR CONTROL INC 611 COUNTY
LINE RD HUNTINGDON VALLEY
PA 19006.....215-322-5800
EMP 60 ENG 7 \$2,500-\$5,000K

AIRCRAFT & ELECTRONIC SPECIALTIES
INC BOX 248 PLAINFIELD
IN 46168.....317-272-2550
J BARNES EMP 130 ENG 5 \$2,500-\$5,000K

AIRCRAFT INSTRUMENTS CO
4039 SKYRON DR DOYLESTOWN
PA 18901.....215-348-5270
J RYCHLAK EMP 30 ENG 3 \$1,000-\$2,500K

AIR ELECTRO SUPPLY INC
7700 GLORIA AVE VAN NUYS
CA 91406 TWX 910-495-1794.....213-988-4400
S STRULL EMP 37 \$2,500-\$5,000K

AIRFLOW CO 295 BAILES LA
FREDERICK MD 21701 TWX 160998.....301-831-3100

AIRFLYTE ELECTRONICS CO
NEW HOOK RD BAYONNE NJ 07002
TWX 710-729-4489.....201-436-2230
J PIRET EMP 75 ENG 6 \$2,500-\$5,000K

CA Thorson Co Signal Hill.....213-595-0360
CA Poltronics Mtn View.....960-3020
CT Kitchen & Kutchin North Haven.....239-0210
IL Probe Electronics Park Ridge.....698-2040
MA Kitchen & Kutchin Burlington.....229-2660
NJ Avionics Eqt Kinnelon.....838-8100
NY R P Kennedy Inc Rochester.....271-6300
TX Jacobson Co Dallas.....363-7580

AIRGUIDE INSTRUMENT CO
2210 WABANSIA AVE CHICAGO
IL 60647 TWX 254495.....312-486-3000
E RAINES EMP 250 ENG 5

AIR-O-TRONICS DIV TRUSH INC
69 ALBANY ST CAZENOVIA
NY 13035 TWX 710 541-1530.....315-655-2380
P HAWKS EMP 20 ENG 2 \$1,000-\$2,500K

CO Cristee Meade Co Lakewood.....303-232-0280
FL Bolton Assoc Ft Lauderdale.....305-491-6550
MA Anaon Sales Wilmington.....617-270-3710
MI Intercom Atlas.....313-695-0660
MO Delltron Co St Louis.....314-869-4770
NY Jerico Assoc W Seneca.....716-674-6990
PA Certified Elec Sales Ambler.....215-646-8990
WI KMG Sales Co Racine.....414-639-9000
FR Tienkay Toronto ON.....416-736-1220

DISTRIBUTORS

CT Electrotech Sales Corp Milford.....203-877-1240
FL Elcon Oakland Park.....305-491-8440
IL Electro Kinetics Inc Wood Dale.....312-595-6700
MI Moore Bros Elec Co Flint.....313-232-2114
MI S & F Electronics Grand Rapids.....616-459-0200
MI SPEMCO St Clair Shores.....313-771-2720
NJ Feldman Bros Elec Sply Paterson.....201-742-7330
NY Salmon Motor Repair Inc Syracuse.....315-455-7470
NY Park Electric Orchard Park.....716-662-7070
NY M & M Supply Gastonia.....704-867-0020
NC M & M Elec Supply Gastonia.....704-867-0020
PA West Chester Elec West Chester.....215-696-7600
PA Electric Supply Conshohocken.....215-825-4610

AIRPAX CORP CAMBRIDGE DIV
BOX 520 WOODS RD CAMBRIDGE
MD 21613 TWX 710 865-9655.....301-228-4600
R PHILLIPS EMP 660 ENG 20 OVER \$10,000K
ADV PG 91

For Sales Offices & Reps See Airpax Corp Cheshire Div Listings.

AIRPAX CORP CHESHIRE DIV
WEST JOHNSON CHESHIRE
CT 06410 TWX 710-455-4048.....203-272-0300
J RICARDI EMP 700 ENG 60 \$6,000-\$10,000K

AL BCI Huntsville.....205-539-4410
AZ Westrap Phoenix.....602-997-8880
CA Westrap Anaheim.....213-404-3880
CA Airpax Corp Santa Clara.....408-980-0030
CO Lange Sales Littleton.....303-795-3610
CT Selmark Assoc Clinton.....203-573-9000
FL ElectroComp Assoc Deerfield Beach.....305-429-0800

GA BCI Chamblee.....404-455-0440
IL Somers-Reagan Inc Palatine.....312-881-1110
IN Leslie M Devoe Co Indpls.....317-842-3240
IA Rep Assoc Corp Marion.....319-373-0110
MA Selmark Assoc 333 Orchard Mills.....317-376-2900
MI Pine Sales Inc Madison Hts.....313-589-0300
MN PWC Inc 7831 Glenroy Rd Bloomington.....612-831-5990

MO Delltron Co 10309 Deem Dr St Louis.....314-869-4770
NH Selmark Assoc Irish Hill Rd Hopkinton.....603-746-3250
NY Airpax Corp Rochester.....716-654-7470
NY Airpax Corp Jericho.....516-822-2470
NY C W Floring & Assoc Syracuse.....315-478-2140
NC L G White Southern Winston-Salem.....919-725-3610
OH Baehr Greenleaf & Assoc Cleveland.....216-221-9000

OR Evergreen Group Beaverton.....503-643-8030
PA Thomas Jackson Assoc Harleysville.....215-256-8870
PA Russell F Clark Co Pittsburgh.....412-242-9550
SC L G White Southern Greenville.....803-271-0600
TX Airpax Corp Dallas.....214-733-4330
UT Lange Sales SLC.....801-487-0870
WA Evergreen Mktg Group Seattle.....206-633-3110
WI Larson Assoc Wauwatosa.....414-258-0550
FR Kaytronics Ltd Ville St Pierre.....514-367-0100

AIRPAX CORP FT LAUDERDALE DIV
6801 W SUNRISE BLVD
FT LAUDERDALE FL 33313
TWX 510-955-9866.....305-587-1100
J RUTH EMP 120 ENG 25 \$5,000-\$10,000K
AL D W Prouty Birmingham.....205-979-4070

Westrep Phoenix	602-997-8899
Airpax Anaheim	213-404-3881
FLW Inc Costa Mesa	714-751-7512
Lange Sales Inc Littleton	303-795-3600
Panam Tech Inc Ft Lauderdale	305-587-3769
Control Equip Co Marietta	404-427-8776
Somers-Reagan Inc Palatine	312-991-1108
Leslie M DeVoe & Assoc Indpls	217-842-3245
Rep Assoc Corp Marion	317-473-0152
D & W Systems Sales Kenner	504-466-1692
Strayton Assoc Mount Airy	301-831-7007
Northeast Reps Inc Hingham	617-749-8700
Automatic Controls Co Detroit	313-533-8890
PWC Inc Bloomington	612-831-5999
Delltron Co St Louis	314-869-4779
Neville & Vespo Springlake Hts	201-947-1520
Process Management Inc Buffalo	716-847-0450
C W Floring Syracuse	315-478-2149
MacGuire & Crawford Inc Charlotte	704-366-3454
Baehr Greenleaf & Assoc Cleveland	216-221-9030
Evergreen Mktg Group Beverton	503-643-8020
Thos Jackson & Assoc Harleysville	215-256-8877
Friday Engg Sales Pittsburgh	412-341-1444
Automatic Systems Dallas	214-688-1810
Halton Co Houston	713-782-5625
Process Specialties Salem	206-634-5683
Evergreen Mktg Group Seattle	206-633-3160
Larsen Assoc Wauwatosa	414-258-0529
Ontario Electric Ltd Mississauga	416-274-3454
Southwells Controls Ltd North Vancouver BC	604-980-3688

IRPAX CORP-FREDERICK DIV
BOX 500 HUSKY PARK FREDERICK
MD 21701 TWX 710-862-0901
A KNEZEVICH EMP 450 ENG 11 OVER \$10,000K
or Sales Offices & Reps See Airpax Corp Cheshire
iv Listings

IRPOT CORP 27 LOIS ST NORWALK	
CT 06851 TWX 643688	203-846-2021
M GABERMAN	
A Wilhoit Assoc 2680 Bayshore Frontage	
Mt View	
A D Tomlinson 7841 Balboa San Diego	
O Integrated Motion Systems 3460 S Broadway	
Englewood	
A Wood Sales Corp 687 Highland Av Needham Hts	
Applied Motion Technology Box 178 Newport	
Y Schumacher & Scruggs 25 Great Oak	
La Pittsford	
A Macron Dynamics 526 Swede St Norristown	
X Automated Motion Control 13789 Noel Dallas	

IR PRODUCTS & CHEMICALS INC	
BOX 538 ALLENTOWN PA 18105	
TXW 510-651-3686	215-481-4911
S CHEN EMP 17700 OVER \$10,000K	
L Air Prods & Chem Birmingham	205-870-5603
R Air Prods & Chem Little Rock	501-375-1256
A Air Prods & Chem Mt View	415-961-4560
A Air Prods & Chem Long Beach	213-498-7779
A Air Prods & Chem Jacksonville	904-786-2662
A Air Prods & Chem Albany	312-432-1248
A Air Prods & Chem Hillside	312-449-5850
A Air Prods & Chem South Bend	219-288-4941
A Air Prods & Chem Sioux City	712-252-4466
A Air Prods & Chem Louisville	502-456-6222
A Air Prods & Chem New Orleans	504-241-8310
D Air Prods & Chem Salisbury	301-742-3800
A Air Prods & Chem Detroit	313-893-7420
N Air Prods & Chem Shakopee	612-445-4610
S Air Prods & Chem Clarksdale	601-624-2547
E Air Prods & Chem Omaha	402-341-5500
J Air Prods & Chem Iselin	201-548-4600
C Air Prods & Chem Greensboro	919-299-1361
H Air Prods & Chem Cleveland	216-781-2800
K Air Prods & Chem Oklahoma City	405-232-3456
A Air Prods & Chem Tamaqua	717-467-2981
C Air Prods & Chem Charleston Hts	803-744-2228
D Air Prods & Chem Rapid City	605-342-4490
N Air Prods & Chem Chattanooga	615-265-1019
X Air Prods & Chem La Porte	713-479-6039
A Air Prods & Chem Richmond	804-231-1674
A Air Prods & Chem Renton	206-228-5515
IV Air Prods & Chem Parkersburg	304-485-1691
IV Air Prods & Chem Wauwatosa	414-476-4370
R Air Prods & Chem Brampton ON	416-791-2530

IRTRON DIV LITTON SYSTEMS INC	
200 E HANOVER AVE MORRIS	
PLAINS NJ 07950	
TXW 710-986-7473	201-539-5500
E STRONG EMP 350 ENG 25	
Z Trembly Assoc Tempe	602-967-2058
A Cain Technology W LA	213-477-9054
A Cain-White & Co Los Altos	415-948-6533
C Ted Britt Assoc Washington	202-296-7029
L Precision Mktg Svcs Coral Springs	305-752-1700
A Erickson Lake Park	912-559-5835
R-TEK Palatine	312-991-4404

IA Midwest Meridian Corp Maryland	
Hts	314-878-4441
MD Dickson Sales Co Towson	301-823-0923
MA B B C Chelmsford	617-452-7211
MO Midwest Meridian Corp Maryland	
Hts	314-878-4441
NJ DJ Assoc Madison	201-822-0002
NM Trembly Assoc Albuquerque	505-266-8616
NY Ossmann Instr E Syracuse	315-437-7052
TX Vector Sales Co Richardson	214-234-4291
WA WH Industries Granada Hills CA	818-363-3910
FR RF Microwave Ltd St Laurent PQ	514-335-2335

AIR-VAC ENGINEERING CO
100 GULF ST MILFORD CT 06460
J FRAWLEY EMP 30 ENG 6

AJAX MAGNETHERMIC CORP	
1745 OVERLAND AVE NE WARREN	
OH 44482 TWX 0982482	216-372-8511
EMP 500 ENG 60 OVER \$10,000K	
AL W Cheatham Birmingham	205-870-9747
CA B J Campbell Santa Fe Springs	213-946-4366
CT J Fowles East Lyme	739-9122
IL J Sabo Chicago	312-992-2116
MI J McNeish Michigan Ctr	517-764-2824
MI N O Wilcox Brighton	313-227-1554
NY D Parvis Rochester	716-235-1488
OH E Keller Cleveland	216-459-2252
PA L Jones Pittsburgh	412-931-3737
TX J Miller Houston	713-444-7474
FR T Logan Ajax ON	416-683-4980

AKAI AMERICA LTD BOX 6010
COMPTON CA 90224 TWX 677494
M WIGGINS EMP 110 OVER \$10,000K

AKG ACOUSTICS INC 77 SELLECK ST	
STAMFORD CT 06902	203-348-2121
S RAVICH	
AZ AMH Sales Co Phoenix	602-867-4559
CA JND Fairfax	415-459-3186
CA Marshank Sales Co Culver City	213-559-2591
CT J B Anthony Co Stamford	203-322-9202
FL World Wide Elctns Pembroke Pines	305-966-6622
GA Eirep Sales Tucker	404-938-7108
HI Island Instruments Honolulu	808-523-6751
IL Audiophiles Burr Ridge	312-920-9165
MD Taub Sales Silver Springs	301-622-9100
MA VF Sales Inc Natick	617-237-6544
MN Yore Co White Bear Lake	612-770-9760
MO R J Throckmorton Sales Co KC	816-333-0303
NY B Darmstedter Assoc	
Baldwinsville	315-638-1261
OH Electro Acoustic Mktg Spring Valley	513-862-4495
PA North Coast Mktg Erie	814-456-6435
TX Dimension Point IX Dallas	214-348-9657
WA Northmar Inc Seattle	206-524-5170

AKRO-MILS INC 1293 S MAIN	
BOX 989 AKRON OH 44309	
TXW 98-6321	216-253-5592
D MARTIN EMP 125 ENG 3	
CA J Rastetter Cerritos	926-0465
IL J Nigro Franklin Park	508-5753
NJ L Cuomo Dumont	570-7096
OR R M Minthorne Portland	246-4556
FR D Shaw Agincourt ON	291-7196

ALAN INDUSTRIES INC BOX 1203	
COLUMBUS IN 47202	812-372-8869
W KENNEDY EMP 35 ENG 3 \$2,500-\$5,000K	
AL Saber Assoc Huntsville	800-327-0853
CA RF Assoc LA	213-478-1586
CA RF Assoc Palo Alto	415-494-3311
FL Saber Assoc Melbourne	800-432-6288
GA Saber Assoc Norcross	800-327-0853
IL Electro-Tech Mktg Chicago	312-676-3151
IN Schillinger Assoc Kokomo	317-452-4057
MD C L Malinow Randallstown	301-922-2092
MA Addecco Corp Needham	617-444-4754
NY Ascor Elctns New Rochelle	914-235-8838
NY R & D Assoc Liverpool	315-457-0100
NC Saber Assoc Clayton	800-327-0853
OH F L Ohmer & Assoc Dayton	513-434-1454
PA M Lader Co Lafayette Hill	215-825-3177
SC Saber Assoc Columbia	800-327-0853
TX Airep Electronics Dallas	214-349-4360
WI Electro-Tech Mktg Brookfield	414-785-9554
FR Dage Corp Stamford, CT	203-324-3123

ALUA ENGINEERING 2305
FLORENCIA DR MONTROSE
CA 91020
A BRAUN EMP 3 ENG 3 \$100-\$250K

ALBA LAMPS INC 5641 GAGE ST	
ROSEMONT IL 60018 TWX 285204	312-696-4562
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MN PSI Mnpls..... 314-291-1101
NY BC Elctn Sales Bridgeton..... 516-766-3636
NY Alps Elec USA Inc Rockville Ctr..... 919-996-2742
NC Wallace Elec Sales Kernersville..... 216-333-4040
OH Norcom Tulsa..... 918-832-7747
PA Harry Nash Assoc Willow Grove..... 215-657-2213
TN Jack Harvey & Assoc Knoxville..... 615-524-7057
TX Norcom Dallas..... 214-366-4888
TX Norcom Austin..... 512-451-2757
TX Norcom Houston..... 713-778-0392
WA Venture Elctns Bellevue..... 206-454-4594
FR Vitel Elctns St Laurent PQ..... 514-331-7393

DISTRIBUTORS
CA Valley View LA..... 714-898-0375
MA NEEDS Waltham..... 617-647-5709
MN Electronic Comp Groupe Mnpls..... 612-559-0720

ALTEK CO 245 E ELM ST
TORRINGTON CT 06790..... 203-482-7626
S ALTSCHULER EMP 40 ENG 5 \$2,500-\$5,000K

ALTEK CORP 2150 INDUSTRIAL PKWY
SILVER SPRING MD 20904
TWX 710 825-0422..... 301-622-3906
E RODNEY EMP 75 ENG 9 \$2,500-\$5,000K

ALTERA CORP 3525 MONROE ST
SANTA CLARA CA 95051
TWX 888496..... 408-984-2800
J DUFFY

AL Montgomery Mktg Huntsville..... 205-830-0498
AZ Tusar Scottsdale..... 602-998-3688
CA Addem Carlsbad..... 619-729-9216
CA HTRC Tustin..... 714-730-9561
CA Magna Sales Santa Clara..... 408-727-8753
CO Simpson Assoc Littleton..... 303-794-8381
CT Technology Sales Yalesville..... 203-269-8853
FL EIR Inc Maitland..... 305-660-9600
GA Montgomery Mktg Norcross..... 404-447-6124
IL Oasis Sales Elk Grove Vlg..... 312-640-1850
IN Electro Reps Indpls..... 317-842-7202
KS Midwest Tech Sales Meriam..... 913-236-8555
MD Robert Elect Sales Columbia..... 301-995-1900
MA Technology Sales Waltham..... 617-647-5700
MI Rathsborg Assoc Detroit..... 313-882-1717
MN HMR Mnpls..... 612-888-2122
MO Midwest Tech Sales St Charles..... 314-441-1012
NJ BGR Assoc Marlton..... 609-983-1020
NY T-Squared Electronics Syracuse..... 315-463-8592
NY ERA Commack..... 516-543-0510
NC Montgomery Mktg Cary..... 919-467-6319
OH Lyons Dayton..... 513-278-0714
OR Westerberg & Assoc Portland..... 503-620-1931

TX Technical Mktg Carrollton..... 214-387-3601
TX Technical Mktg Houston..... 713-783-4497
UT Simpson Assoc Midvale..... 801-564-3691
UT Nelco Electronic Albuquerque..... 505-292-3657
VA Robert Elect Sales Richmond..... 804-276-3979
WA Westerberg & Assoc Bellevue..... 206-453-8881
WI Oasis Sales Brookfield..... 414-782-6660
FR Kaytronics Ontario..... 516-669-2262
FR Kaytronics Quebec..... 514-367-0101
FR Technology Sales San German PR..... 809-892-4745

DISTRIBUTORS
CA Wyle Labs Santa Clara..... 408-727-2500
CA Wyle Labs Irvine..... 714-863-9953
IL Schweber Elect Elk Grove Vlg..... 312-364-3750
MD Pioneer Standard Gaithersburg..... 301-921-0660
NY Pioneer Standard Woodbury..... 516-921-8700
NY Schweber Elect Westbury..... 516-334-7474
ND Alliance Elect Albuquerque..... 505-292-3360
OH Pioneer Standard Cleveland..... 216-587-3600
TX Quality Components Addison..... 214-733-4300
FR Future Electronics Pte Claire PQ..... 514-694-7710

ALTHOR PRODUCTS 496 DANBURY RD
WILTON CT 06897..... 203-762-0796
EMP 15 ENG 1 \$100-\$250K

ALTOS COMPUTER SYSTEMS
2641 ORCHARD PKWY SAN JOSE
CA 95134 TWX 171562..... 408-946-6700
L ADAMS EMP 700 ENG 50 OVER \$10,000K
AZ S Delizio Scottsdale..... 602-951-8725
CA H Decker Los Angeles..... 213-629-3460
CT B McPhail Glastonbury..... 203-659-3453
FL Wendell Kaiser Orlando..... 305-774-4722
GA D Fort Atlanta..... 404-458-2469
IL G Peterson Chicago..... 312-397-5186
MA A Thibodeau Burlington..... 617-272-2572
MI K Cotecher Farmington Hills..... 313-855-8690
MO N Riehl St Louis..... 314-878-0984
NJ B Serafini Marlton..... 609-596-6033
NY B Kant Saddlebrook..... 201-368-8220
TX Richard Gaspar Dallas..... 214-458-2305
VA D Hooper Vienna..... 703-442-7500

DISTRIBUTORS
AZ PGI Tempe..... 602-967-1421
CA Western Micro Systems Mt View..... 415-964-2050
FL Tech Data Clearwater..... 813-539-7429
GA Micro Science Atlanta..... 404-998-6551
IL Tek-Aids Arlington Hts..... 312-780-7400
KS Crystal Computers Lenexa..... 913-541-1711
MA Micro America Marlborough..... 617-480-0780
MI Startronic Dist Farmington Hills..... 313-477-7586
MN Loom Computer Prods Eden
Prairie..... 612-944-1114
NJ Sysronics Computer Sys
Hastebrook Hts..... 201-288-3322
NY Arrow Electronics Melville..... 516-694-6800
OR RPC Computer Elect Pittsburgh..... 412-782-3770
TN Multi Computer Products
Cookeville..... 615-528-7777
TX Responsive Computer Systems
Plano..... 214-423-5944
WA Vivatir Computers Bellevue..... 206-454-6307

ALTUS CORP 1610 CRANE COURT
SAN JOSE CA 95112 TWX 678 354..... 408-295-1300
D SNUIGERUD EMP 500 ENG 50 OVER \$10,000K
CA G Weber Palo Alto..... 415-572-2689
NJ S Witley East Windsor..... 609-443-6504
WI C Zickuhr Menomonee Falls..... 414-255-5373

ALUMA TOWER CO INC BOX 2806
VERO BEACH FL 32961
TWX 803405..... 305-567-3423
EMP 30 ENG 2

ALUMINUM DESIGN CORP 9301
W 47TH ST BROOKFIELD IL 60513..... 312-387-3100
M WARREN EMP 70 ENG 6 \$2,500-\$5,000K
ADV PG 372

CA Technical Inc 1908 Calle
Avenue Camarillo..... 805-482-1635
GA Norm Soucy Assoc 7485 Twin
Branch Rd Atlanta..... 404-394-9676
NY Talbot Assoc 11 Cleveland
Pl Springfield..... 201-376-9570
OH Davis Ind Sales 24300 Chagrin
St Beachwood..... 216-464-9655
PA Glaser-Miller Co Box 1058 Exton..... 215-524-1414
FR Tekna Ltd 7200 Arthur Levelliee
Montreal PQ..... 514-648-5040

ALUMINUM FILTER CO 1000 CINDY LA
CARPINTERIA CA 93013
TWX 6713624..... 805-684-7651
B BAKER EMP 150 ENG 3

AZ Air Filtration Products Tucson..... 800-528-1585
CA Vontek Sales Fremont..... 415-651-7966
CA Budenz Assoc Camarillo..... 805-388-2507
CO X-O Sales Louisville..... 303-666-7690
MA Harman Assoc Brookline..... 617-232-6687
MN Peterson & Wolf Eden Prairie..... 612-941-5400




OK	NTR/Datacomp Inc Tulsa.....	918-664-2180
AL	USETT USA INC 3 CECILIA LA PLEASANTVILLE NY 10570.....	914-747-3477
NY	R POZZUOLI EMP 35 ENG 4 Optimum Sales Co Mastic.....	516-589-4664
AL	VDOR SYSTEMS INC 620 ST CLAIR AVE BOX 488 CLAIRTON PA 15025.....	412-233-3910
	R HARMENING EMP 14 ENG 1 \$500-\$1,000K	
AM	ACOIL MACHINERY INC 111 PLAIN AVE NEW ROCHELLE NY 10801 TWX 137466.....	914-235-5050
	ALBERTA M EMP 40 ENG 10	
AM	AREL PRECISION INSTR INC OPTIM DIV 2555 BAIRD RD PENFIELD NY 14526-2385.....	716-381-6309
	W HUNTER EMP 12 ENG 4 \$500-\$1,000K	
AM	ATOM ELECTRONIC HARDWARE CO 446 BLAKE ST NEW HAVEN CT 06515 TWX 963419.....	203-397-3311
	T RUSSO EMP 56 ENG 3	
AL	REMO Huntsville.....	205-533-3763
AZ	Dar-C Inc Scottsdale.....	602-948-2240
AR	Electra Reps Ft Smith.....	501-452-4030
CA	D C Electrs Corp San Francisco.....	408-980-1199
CA	Gabriel & Assoc Anaheim.....	714-666-0660
CO	Dynatech Englewood.....	303-773-2830
CT	The Rep Corp Bethany.....	203-393-0024
FL	Electrocomp Assoc Deerfield Bch.....	305-429-0802
GA	Remco-Atlanta Atlanta.....	404-447-6937
IL	Control Sales Elk Grove Vlg.....	312-595-2110
IN	Aktron Corp Ft Wayne.....	219-747-3650
IA	MSB Assoc Marion.....	319-377-6261
KS	MSB Assoc Shawnee Mission.....	913-432-2131
MA	The Rep Corp Wellesley.....	617-237-6476
MI	Pitcher-Poulin Dearborn.....	313-582-5450
MN	Bohlig & Assoc Eden Prairie.....	612-944-8404
MO	MSB Assoc St Charles.....	314-946-5577
NY	Robt Diamond Inc Bayside.....	212-423-3300
NY	Lenard Co Syracuse.....	315-479-9191
NC	Remco-Raleigh Raleigh.....	919-847-5079
OH	John O Olsen Co Cleveland.....	216-662-3454
OH	John Olsen Co Cincinnati.....	513-574-7711
PA	Jadelectronic Assoc Birchrunville.....	215-296-3800
TX	Electra Reps Dallas.....	214-387-3594
UT	Dynatech Layton.....	801-546-4837
WA	Evergreen Mktg Gp Lynnwood.....	206-775-6656
WI	Control Sales Thiensville.....	414-242-4580
AM	BEO ELECTRONICS 1418 E ARROW HWY IRVINDALE CA 91706.....	213-358-2573
	N BUCHANAN EMP 15 ENG 2 \$250-\$500K	
AM	BER ELECTRO DESIGN INC 4810 JEAN TALON W MONTREAL PQ H4P 2N5 TWX 05-827598.....	514-735-4105
	W JONES EMP 20 ENG 5 \$1,000-\$2,500K	
FR	Allan Crawford Assoc Dartmouth NS.....	902-463-8640
FR	Allan Crawford Assoc Mississauga ON.....	416-890-2010
FR	Allan Crawford Assoc Montreal PQ.....	514-731-8564
FR	Allan Crawford Assoc Calgary AB.....	403-230-1341
FR	Allan Crawford Assoc Burnaby BC.....	604-294-1326
AM	BTECH INDUSTRIES INC 319 KNICKERBOCKER RD HILLSDALE NJ 07642.....	201-666-0504
	EMP 20 ENG 4	
AR	Industrial Controls Assoc El Dorado.....	1-800-272-5477
CA	Tucul Engineering Montebello.....	213-723-4072
CA	Schriber Ind Sales Milbrae.....	415-692-6836
CT	Tech-Quip Assoc Branford.....	203-481-3509
FL	Luttrell Engrg Sales Tampa.....	813-876-0863
GA	Motion Technology Inc Lilburn.....	404-972-5050
IL	R De Laney Crestwood.....	312-388-6464
IN	Dominio Inc Fort Wayne.....	219-456-5512
IA	I L Davidson Co KC.....	816-333-2044
KY	Walter Nussbaum Jr Co Louisville.....	502-895-3057
MD	P Knox Lutherville.....	301-252-1288
MA	McClure Industries Worcester.....	617-755-3472
MI	Xanthus Inc Troy.....	313-528-2000
MN	Northstar Motion & Control St Paul.....	612-770-5311
NJ	Carroll A Brant Entrps Sparks.....	202-358-0829
NJ	Horton Tech Sales Metuchen.....	201-494-6897
NY	Environmental & Safety Assoc Baldwinville.....	315-635-6027
NY	Rudell-Merrifield Assoc Buffalo.....	716-634-4300
NC	B J Shepard Co Charlotte.....	704-588-0693
OH	Loesch Assoc Cleveland.....	216-333-0077
PA	C & H Systems Conneaut Lake.....	412-963-6366
WA	Camco Engineering Winlock.....	206-785-3565
WV	J & R Brisky Assoc McMurray.....	412-941-5570
FR	PTM Industries Downsview ON.....	416-736-4972
AM	CO ENGINEERING CO 3801 N ROSE ST SCHILLER PARK IL 60176 TWX 910-227-3152.....	312-671-6670
	F JOHNSON EMP 360 ENG 10 OVER \$10,000K	
AL	Kemp Instruments Huntsville.....	837-4304
AZ	Gramer & Co Phoenix.....	994-1311
CA	Polack & Bensinger Burlingame.....	697-2525
CA	Knight Co LA.....	670-2833
CA	Knight Co Escondido.....	743-5136
CO	F G Mktg Co Englewood.....	795-9176
CT	Instrument Dynamics Inc Bethel Temco Sales Tampa.....	743-5045
FL	Temco Sales Tampa.....	855-7566
GA	Kemp Instruments Atlanta.....	452-8050
IL	R L Lang & Assoc Bensenville.....	766-3667
IN	Aktron Corp Ft Wayne.....	217-747-3650
IA	Rush & West Davenport.....	388-9494

KS	Rush & West Olathe.....	764-2700
LA	Kemp Engineering Lafayette.....	269-9452
MD	L G White & Co Silver Spring.....	434-1555
MA	Instrument Dynamics Wakefield.....	245-5100
MI	Electro Sales Assoc Livonia.....	474-7320
MN	Bonament Heyda Co St Paul.....	484-8531
MO	Rush & West Ballwin.....	394-7271
NJ	International Sales Div Mahwah.....	201-825-0473
NM	C T Carlberg Assoc Albuquerque.....	888-3883
NY	Naco Electrs Corp North Syracuse.....	699-2651
NY	F & F Metro Great Neck.....	482-4080
NC	L G White & Co Winston Salem.....	725-3612
OH	Electro Sales Assoc Dayton.....	426-5551
OH	Electro Sales Assoc Chesterland.....	729-0190
OR	Eclipse Mktg Group Beaverton.....	642-1661
PA	White-Whiddell Co Edgemont.....	353-6343
PA	Electro Sales Assoc Allison Park.....	487-3801
SC	L G White & Co Greenville.....	271-0630
TX	Kemp Engineering Houston.....	466-1465
TX	Kemp Engineering Austin.....	834-0370
VA	L G White & Co Richmond.....	740-7093
WA	Eclipse Mktg Group Redmond.....	885-6991
AM	D AHL COMMUNICATIONS SYSTEMS DIV 2200 N GREENVILLE RICHARDSON TX 75075 TWX 910-343-6425.....	214-699-9500
	D CANTON EMP 700 OVER \$10,000K	
AM	MECO INC 1900 S CHRIS LA ANAHEIM CA 92805.....	714-634-2220
AM	CORP 101 E MAIN ST LITTLE FALLS NJ 07424.....	201-256-3939
	EMP 12 ENG 2	
FL	EAB Inc Box 6026 Orlando.....	305-898-7444
NJ	Chanco Inc Wyckoff.....	201-891-7866
TX	Control Comps Corp Dallas.....	214-458-8877
FR	Leecraft Industries Ltd Scarborough ON.....	416-439-6320
AM	ERACE CORP NEWBURGH RD HACKETTSTOWN NJ 07840 TWX 6853377.....	201-852-1122
	A MITCHELL EMP 750 ENG 22 OVER \$10,000K	
AL	Control Prods Agency Hoover.....	205-942-4389
AZ	Mercury Engrg Sales Phoenix.....	602-244-0123
CA	J Wilhoit Co Los Altos.....	415-961-3660
CA	Schoenbacher-Dobson Co Tustin.....	714-544-1888
CO	Cliff Beabout Co Denver.....	303-244-3151
CT	Tulimieri Assoc Glastonbury.....	203-659-3531
FL	Budim-Stevens Co Orlando.....	305-425-3202
HI	H C Burgess Mililani.....	808-623-3118
IL	Amerace Algonquin.....	312-658-8933
IA	J L Shumway & Assoc Des Moines.....	515-285-0704
KS	Arehart-Bandis-Rains Overland Pk.....	913-649-9270
ME	Electrical Components East Sebago.....	617-665-2225
MD	Strayton Assoc Mount Airy.....	301-831-7007
MA	Amerace Norwell.....	617-659-4474
MI	Geo R Peters Assoc Troy.....	313-362-1220
MN	Harold Mercer Co Mnpls.....	612-933-7111
MS	Welch & Doby Inc Jackson.....	601-932-5534
MO	Martin Elec Sales Kirkwood.....	314-966-8659
NJ	Amerace Dunellen.....	201-271-0592
NM	Sun Sales Co Albuquerque.....	505-884-2411
NY	Amerace Manhasset.....	516-627-8809
NY	Ontec Rochester.....	716-464-8636
NC	Hile Assoc Greensboro.....	919-288-1500
OH	Amerace West Chester.....	513-777-2472
OR	Leahy Assoc Portland.....	503-644-2505
PA	Cusick Elec Sales Willow Grove.....	215-659-6666
TX	Amerace Houston.....	713-984-8128
WA	Leahy Assoc Bellevue.....	206-641-5080
WV	Faster McClinton Hurricane.....	304-757-6645
WI	Harold Mercer Co Appleton.....	414-739-6223
	DISTRIBUTORS	
CA	Arcolec Bakersfield.....	805-323-8111
FL	Arco Dist Davie.....	305-473-2550
GA	Brownell Electro Atlanta.....	404-762-5181
IL	Electro-Kinetics Wood Dale.....	312-595-6700
IN	Control Design Indpls.....	317-788-4559
MI	Apparatus Service Allston.....	617-787-1300
MI	McNaughton-McKay Madison Hts.....	313-399-7500
NJ	Fromm Elec Supply Piscataway.....	201-981-0400
NY	Genesee Radio Parts Buffalo.....	716-873-9661
NC	Kirkman Elect Winston-Salem.....	919-722-9131
OH	Related Components Dayton.....	513-253-6116
PA	Royal Elec Supply Phila.....	215-221-1200
TN	Richardson Elec Chattanooga.....	615-629-2521
TX	Industrial Equipment Houston.....	713-928-3181
AM	EREX UNIBOX PRODUCTS BOX 2815-B RIVERSIDE CA 92515.....	714-686-1400
	R ORTON	
AM	EROSPACE CONTROLS INC 570 SMITH ST FARMINGDALE NY 11735.....	516-694-5100
	G D'ABRAMO EMP 45 ENG 5 \$2,500-\$5,000K	
CA	Dyna Sales Co LA.....	213-268-1175
AM	ERANALOG 2930 C GRACE LA COSTA MESA CA 92626.....	714-751-7512
	DISTRIBUTORS	
AL	FLW Huntsville.....	205-536-6207
CA	FLW Hayward.....	415-786-9070
CA	FLW San Diego.....	602-225-5359
CA	FLW Costa Mesa.....	714-751-7512
CA	FLW Los Angeles.....	800-225-5359
FL	FLW Orlando.....	305-894-1100
GA	FLW Marietta.....	404-424-1731
HI	FLW Kailua.....	808-945-1030
MI	FLW North Reading.....	617-664-6712
NJ	FLW Metuchen.....	201-548-4343
NC	FLW Charlotte.....	704-542-1431
PA	FLW King of Prussia.....	215-337-4343
TN	FLW Memphis.....	901-345-3563

TX	FLW Houston.....	713-941-7262
AM	ERICAN COMPUTER GROUP INC BOX 68 KENMORE STA BOSTON MA 02215 TWX 710-321-6388.....	617-437-1100
	W GRINKER EMP 80	
CA	Amer Computer Group Sausalito.....	415-332-9030
AM	ERICAN CONTROL PRODS DIV PRECISION TIMER CO INC WESTBROOK IND PK WESTBROOK CT 06498.....	203-399-6250
	G STANNARD EMP 22 ENG 3 \$1,000-\$2,500K	
CA	Silicon Valley Sales San Jose.....	408-286-7511
CA	Electrotek Sales Anaheim.....	714-630-8831
FL	Southern Elect Sales Jupiter.....	305-744-0701
IL	Parcom Inc Elk Grove Vlg.....	312-288-6643
IN	Menze Sales Ft Wayne.....	219-747-5611
KS	R E Gooley Co Prairie Vlg.....	913-831-0200
MA	Wood Sales Corp Needham Hts.....	800-343-0555
MA	Boerger & Assoc Mnpls.....	612-560-3443
NY	All Metro Comps Plainville.....	516-681-3116
NY	Electra Sales Corp Syracuse.....	315-463-1241
PA	Espy Sales Co Rydal.....	215-576-0778
TX	Merco Sales Co Dallas.....	214-226-8226
WA	Calvert Controls Medical Lake.....	509-244-3600
	DISTRIBUTORS	
AL	M G Elect Birmingham.....	205-328-4520
CA	Selco Products Buena Park.....	213-921-0688
CA	Milligan-Spika Co Oakland.....	415-635-2311
CT	Reet Corp Newington.....	201-667-1581
GA	Georgia Control Ctr Atlanta.....	404-876-8831
IL	Electro-Kinetics Wood Dale.....	312-595-6700
IN	Hutch & Sons Evansville.....	812-425-7200
IA	Deeco Cedar Rapids.....	319-365-7555
KS	AMFAC Wichita.....	316-262-3543
KY	Peerless Elect Equip Louisville.....	502-637-7671
LA	M G Elect Harahan.....	504-733-0001
MA	T F Cushing Springfield.....	413-788-7374
MN	Electronic Center Mnpls.....	612-317-5200
NJ	Relay Specialties Fair Lawn.....	201-797-3311
NM	Walker Elect Supply Albuquerque.....	505-883-2959
NY	Summit Distributors Buffalo.....	800-462-1818
NC	Southeastern Elect Raleigh.....	919-288-2331
ND	Border States Elec Supply Fargo.....	701-293-5831
OH	Adcon Eng Co Cleveland.....	216-328-3931
OK	E & M Equipment Columbus.....	614-236-0881
OR	Trice Wholesale Elect Okla City.....	405-524-4441
OR	O4 Controls Portland.....	503-231-8031
PA	Applied Controls King of Prussia.....	215-265-3831
TX	Dallas Meter-Tek Sply Dallas.....	214-349-6041
VA	Technical Distributors Alexandria.....	703-971-8911
WA	Stusser Electric Olympia.....	206-943-1901
WI	Englewood Elec Sply Manitowoc.....	414-684-6661
FR	Precise Controls Burlington ON.....	416-634-9661
FR	P & C Co Carolina PR.....	768-5011
AM	ERICAN ELECTRIC CABLE CO 181 APPLETON ST HOLYOKE MA 01040.....	413-539-9811
	M BOUSQUET EMP 100 ENG 3 \$5,000-\$10,000K	
MN	International Sales.....	612-831-8411
MO	Lumit Co.....	314-822-3031
OH	Milber Co.....	216-752-7511
PA	Metz-Benham Assoc.....	215-896-7311
FR	McIntyre Agencies.....	514-731-9611
AM	ERICAN ELECTRIC CORDSETS 1065 SESAME ST BENSenville IL 60106 TWX 312-595-4928.....	312-595-3911
	TOM MCNALLY EMP 280 OVER \$10,000K	
AZ	J & J Sales Tempe.....	602-963-0911
CO	Palmer Assoc Lakewood.....	303-233-9411
FL	Admiral Sales Orlando.....	305-352-0001
MI	R C Merchant Southfield.....	313-354-4431
MO	Michell Sales Co Wentzville.....	314-327-5311
PA	H Newson & Assoc Flourtown.....	215-248-3331
VA	J A Griffin Co Lynchburg.....	804-384-5211
	DISTRIBUTORS	
CA	GRC Assoc Lynwood.....	213-603-1111
CT	WHW Assoc Hartford.....	203-522-4511
MN	Cook Assoc Mnpls.....	612-927-7711
OH	KW Elect Shaker Hts.....	216-491-9111
SC	Crossroads Elect Raleigh.....	919-362-4011
AM	ERICAN ELECTRONICS INC 1600 E VALENCIA DR FULLERTON CA 92634 TWX 910-592-1256.....	714-871-3011
	B GUY EMP 190 ENG 15 OVER \$10,000K	
AM	ERICAN HV TEST SYSTEMS INC CENTRAL GARRETT IND PK ACCIDENT MD 21520 TWX 86223.....	301-826-8611
	J DECARO EMP 50 ENG 5	
AM	ERICAN HYDRAMATH CO BOX 2450, DANBY PAWLET RD PAWLET VT 05761.....	802-325-3011
	R KRISTAL EMP 10 ENG 3 \$250-\$500K	
AM	ERICAN INSULATED WIRE CORP 36 FREEMAN ST PAWTUCKET RI 02862 TWX 710-384-0150.....	401-726-0711
	M KOSHIGARIAN EMP 1200 ENG 12 OVER \$10,000K	
FL	EPM Corp Margate.....	305-977-0311
KS	Thos L Dowell & Assoc Overland Pk.....	913-648-7311
MO	Thurgeon Co Needham.....	617-444-6611
NY	Thos L Dowell & Assoc St Louis.....	314-849-4211
	Schmitt Indus Mktg Corp	
NC	West Hempstead.....	516-486-3511
NC	Over & Over Charlotte.....	704-331-9011
OR	Dussault & Assoc Portland.....	503-641-8711
TX	D Cheatham Grapevine.....	817-481-6211
WA	Dussault & Assoc Seattle.....	206-527-5411

AMERICAN LASER SYSTEMS INC
106 FOWLER RD GOLETA
CA 93117 TWX 4941760 805-967-0423
L SHAFFENBERGER EMP 14 ENG 1 \$500-\$1,000K
CA Pacific Datacom Sys Long Beach..... 213-494-2121
CO Scientific Systems Bailey 303-838-4615
XPOINT Norcross 404-446-2764
MD Wiltronix Washington Grove 301-258-7676
NY Lightcom Sales New York 212-807-8924
TX Scientific Systems Arlington 817-467-3749
WA Topp Engrg Sales Bellevue 206-747-5400

DISTRIBUTORS
MA Allcom Inc Arlington 617-641-2770
NY Data Rac New York 617-938-7350

AMERICAN MAGNETICS CORP BOX 49
CARTERVILLE IL 62918 618-985-4838
G TREECE EMP 150 ENG 4 \$1,000-\$2,500K
CT United Component's Madison 203-245-4810
L Crimmon Engr Co Northfield 312-446-6216
A R Taylor Cedar Rapids 319-364-2282
MO Hayes St Charles 314-964-6677
NM Nalco Electronics Ltd Albuquerque 505-292-1718
NY L G Marchese Assoc Rochester 716-582-2240
NC Over & Over Inc Raleigh 919-872-2262
OH F J Campisano Co Cincinnati 513-574-7111
OK Components Inc Tulsa 918-583-9149
PA Samuel A Jeffries Inc Narberth 215-664-8500
TX J J Sales Irving 214-251-2814

AMERICAN MICROSEMICONDUCTOR INC
133 KINGS RD MADISON
NJ 07940 201-377-9566
D WILSON EMP 20 ENG 2 \$2,500-\$5,000K
ADV PG 162

AMERICAN MICRO SIGNAL CORP
843 J MONROE AVE STANTON
CA 90680 TWX 910-591-1202 714-761-1222
B PHIPPS EMP 50 ENG 8 \$1,000-\$2,500K

AMERICAN NUCLEONICS CORP
696 HAMPSHIRE RD WESTLAKE VLG
CA 91359 TWX 910-336-1147 805-496-2405
B MATTHEWS EMP 50 ENG 20 \$2,500-\$5,000K

AMERICAN OIL & SUPPLY CO
238B WILSON AVE NEWARK
NJ 07105 TWX 710-995-4462 201-589-0250
G BOYLE EMP 60 ENG 5

AMERICAN PLASTICRAFT CO
814 N SACRAMENTO BLVD CHICAGO
IL 60622 TWX 910-221-6068 312-722-7727
D GUY EMP 300

AMERICAN POLARIZERS INC
141 S 7 ST READING PA 19602 215-373-5177
B PERUGINI EMP 40 ENG 1

AMERICAN POWER DEVICES INC
7 ANDOVER ST ANDOVER
MA 01810 TWX 951-206 617-475-4074
R BRYANT EMP 120 ENG 10 \$2,500-\$5,000K
A Landa/Minyard Inc LA 213-879-0770
O Spectrum Mktg Assoc Denver 303-480-9991
T Andrews Airtronics Southington 203-621-6158
L Conley & Assoc Oviedo 305-365-3283
D Valentine Assoc Greenwood 317-888-2260
D Naudin Assoc Gailthersburg 301-258-5040
A Andrews Airtronics Danvers 617-246-2450
N Hillronics Ferndale 313-398-5556
N Northport Engrg St Paul 612-457-8000
Y CDB Enters Huntington 516-692-2500
R W Pat Fraia Co Bedford 817-267-3357
J G Weiss Co Ltd St Laurent PQ 514-337-5022

DISTRIBUTORS
A Newark Elect Chicago 312-638-4411
IN R32 Electronics Andover 617-470-3777 612-935-6202
J Joel Co Hopkins 201-428-8700
I Solid State Inc Bloomfield 414-241-4321
J Taylor Elect Mequon

AMERICAN PRECISION INDUSTRIES
DELCAP DIV 270 QUAKER RD
EAST AURORA NY 14052-0449
TWX 91-293 716-652-3600
D KOHLHAGEN EMP 30 ENG 3 \$250-\$500K
ADV PG 99

DISTRIBUTORS
L El-Tech Inc Clarkston 404-493-3505
Z Toward Eng Assoc Phoenix 602-955-3193
A Advanced Tech Sales Freemont 415-651-6402
O High Tech Assoc Aurora 303-695-1990
A Askland Elec Comp Hollywood 305-987-1074
A El Tech Inc Clarkston 404-493-3505
I Momak Sales Downers Grove 312-963-6400
S Walter Biebrich Fort Wayne 219-432-2537
S & O Sales Cedar Rapids 319-393-1845
S WJ Wollard Parker 913-898-6552
A PJ Engrg Boston 617-924-5950
N Gil Sales Mendota Hts 612-454-3086
A Martech Assoc Parlin 201-721-2200
Y Tech-Mark Inc Mendon 716-624-3840
Y Martech Assoc Manhasset 516-627-1151
Y Tri Start Ronkonkoma 516-737-2200
Y Godwin Assoc Charlotte 704-596-2612
H Electronic Salesmaster Beachwood 216-831-9555
K Kite Elctn Sales Fruing 214-986-0321
I Patco Supply Ft Worth 817-429-8596
I Momak Sales Mukwonago 414-363-7744
I JG Weiss Co St Laurent PQ 514-337-5022
I CPS Intl New York 516-694-8200
I M & K Trading Deerfield Bch 305-428-6220

AMERICAN PRECISION INDUSTRIES RESISTIVE
PRODS DIV 270 QUAKER RD
EAST AURORA NY 14052-0449
TWX 91-293 716-652-3600
D KOHLHAGEN EMP 25 ENG 3 \$5,000-\$10,000K
ADV PG 99

FL Askland Elec Comp Hollywood 305-987-1074

DISTRIBUTORS
AL El-Tech Inc Clarkston 404-493-3505
AZ Toward Eng Assoc Phoenix 602-955-3193
CA Advanced Tech Sales Freemont 415-651-6402
CO High Tech Assoc Aurora 303-695-1990
CA El Tech Inc Clarkston 404-493-3505
IL Momak Sales Downers Grove 312-963-6400
IN Walter Biebrich Fort Wayne 219-432-2537
IA S & O Sales Cedar Rapids 319-393-1845
KS SW Wollard Parker 913-898-6552
MA PJ Engrg Boston 617-924-5950
MN Gil Sales Mendota Hts 612-454-3086
NJ Martech Assoc Parlin 201-721-2200
NY Tech-Mark Inc Mendon 716-624-3840
NY Martech Assoc Manhasset 516-627-1151
NY Baldwin Comp Ronkonkoma 800-645-5608
NC Godwin Assoc Charlotte 714-596-2612
OH Electronics Salesmaster Beachwood 216-831-9555
PA TAI Belmarw 609-933-2601
TX Kite Elctn Sales Fruing 214-986-0321
WI Momak Sale Mukwonago 414-363-7744
FR JG Weiss Co St Laurent PQ 514-337-5022
FR CPS Intl New York 516-694-8200
FR M & K Trading Deerfield Beach 305-428-6220
FR Future Elctn Pte Claire PQ 514-694-7710

AMERICAN RELAYS INC 677
W KNOX ST GARDENA CA 90248 213-327-4240
S ROGER EMP 45 ENG 2 \$1,000-\$2,500K

AMERICAN RESEARCH & ENGINEERING
1500 EXECUTIVE DR ELGIN
IL 60120 TWX 910-251-3008 312-888-7245
B MARTIN

AMERICAN SATELLITE CO 1801
RESEARCH BLVD ROCKVILLE
MD 20850 TWX 710-828-0489 301-251-8333
K THOSS EMP 443 ENG 85 OVER \$10,000K

AMERICAN SCIENCE & ENGINEERING
INC FORT WASHINGTON CAMBRIDGE
MA 02139 TWX 710-320-0221 617-868-1600
C MACKAY EMP 280 ENG 130 OVER \$10,000K

AMERICAN SOLENOID CO INC
50 NEW BRUNSWICK RD SOMERSET
NJ 08873 TWX 710-480-4280 201-560-1240
W LEUSCHNER FMP 100 ENG 5 \$500-\$1,000K

AMERICAN-SWISS PRODUCTS CO INC
642 KREAG RD PITTSFORD
NY 14534 TWX 97-8289 716-248-2277
R COUPL EMP 10 ENG 1 \$2,500-\$5,000K
CA J E Lape Co San Mateo 415-345-3021
CA Benton A Dixon Co LA 213-268-2661
GA Candor Co Atlanta 404-266-5340
IL Ray Wave & Co Elgin 312-931-7070
KS Faulkner Sales Overland Pk 913-451-3324
MA Canby Dautel Assoc S Dartmouth 617-992-1402
MN Geo C Jones Assoc Mnpls 612-831-5379
MO Faulkner Sales St Louis 314-843-8485
NJ M Smith Hackensack 201-488-8005
NC Candor Co Garner 919-876-4999
OH R B Tangeman Dayton 513-294-2954
PA Baker Assoc Doylestown 215-348-1161
SC Candor Co Myrtle Beach 803-448-8361
TX Dace & Dace Richardson 214-234-0400
VA Candor Co Blacksburg 703-953-2197
WI JACO Assoc Brookfield 414-784-1360

AMERICAN SWITCH CORP 134
WATER ST WAKEFIELD MA 01880
TWX 710-348-6756 617-246-1007
M PALMEREMP EMP 40 ENG 2 \$1,000-\$2,500K
AZ EMI Tempe 602-820-5881
CA Serra Assoc Mt View 415-964-4030
CA HMC Inc Arcadia 818-447-0958
CO Andale Lakewood 303-693-4331
FL Newell-Hynes Assoc Deerfield Bch 305-429-3207
GA Specialty Dist Atlanta 404-873-2521
IL Chadra Schilke & Assoc Wheaton 312-653-8126
IN Nationwide Components Carmel 317-872-7207
IA M-S-B Assoc Marion 319-377-6261
KS M-S-B Assoc Roeland Park 913-432-2131
MA Boston Elect Assoc Acton 617-264-4456
MI Intercomm Grand Blanc 313-695-0665
MN HEI-Lite Sales Mnpls 612-861-6051
NJ Dyno Rep Manville 201-685-0135
NY M M Hare Co Liverpool 315-457-6859
OR Doran Sales Forest Grove 503-357-3373
PA Arnold Assoc Elkins Pk 215-742-0600
SC Sunbelt Sales Greer 803-877-9088
UT Sage Sales SLC 801-467-5451
WA Doran Sales Redmond 206-885-1885
FR Intrade Litchfield CT 203-567-5901

DISTRIBUTORS
AL Forbes Dist Birmingham 205-251-4104
AZ Arizona Components Phoenix 602-269-5555
CA Rose Electr San Jose 408-263-9700
CA Sierra West Sunnyvale 408-747-1188
CA Electric Switches L A 213-660-1310
CA Master Dist Santa Monica 213-452-1229
CA Western Sw & Control Tustin 714-731-4233
CO Integrated Elec Denver 303-292-6121
CO Industrial Elect Englewood 303-694-9444
CT Wise Components Greenwich 203-531-4880
CT Midstate Elect Supply Middletown 203-347-5638
FL Alcom Elect Casselberry 305-831-6630
FL Electronic Precepts Largo 813-596-2742

IL NEP Electr Chicago 312-625-8400
IL Sub-Sem Crystal Lake 312-782-3954
IN C W Y Elect Lafayette 317-448-1611
IN Midwest Sply Elect Terre Haute 812-232-0187
IA Iowa Radio Sply Cedar Rapids 319-393-4510
KS Radio Inc Wichita 316-264-2798
MD Marine Air Sply Co Kensington 301-949-9560
IN In-Stock Prods Newton Upper Falls 617-964-6200
MA Abbott Electr Woburn 617-935-2040
MI Great Lakes Elect Battle Creek 616-731-4156
MN Toric Corp Mnpls 612-866-3662
NE Radio Equipment Co Omaha 402-341-7700
NJ Brothers Elec East Brunswick 201-238-2200
NJ Relay Spec Fair Lawn 201-797-3313
NJ PAC Elect Mt Laurel 609-778-1526
NM International Elec Albuquerque 505-345-8127
NY Davis Elect Hempstead 516-483-9200
NY QAR Industrial Elect Mt Vernon 914-699-2224
NY Key Components Bohemia 516-567-7500
NY Add Elect E Syracuse 315-437-0300
NC Kirkman Elect Winston-Salem 919-722-9131
OH Whitehead Elect Columbus 614-224-1186
PA SHAP Electr Phila 215-969-3300
PA Kimberly James Co Norristown 215-666-7286
RI Major/Edwards Pawtucket 401-725-7400
TX Galtronics Austin 512-837-7470
TX Intl Electr El Paso 915-778-9771
TX Ind Electr Ft Worth 817-731-7321
TX Bell Comp Sales Arlington 817-461-5303
UT Standard Sply Co SLC 801-486-3371
VA Norfolk Wire & Electr Virginia Bch 804-499-1100
WA Pyramid Elect Kent 206-872-5800
WV Electronic Supply Huntington 304-523-6443
WI Lake-view Elect Mequon 414-377-8250

AMERICAN TECHNICAL CERAMICS CORP
1 NORDEN LANE HUNTINGTON
STATION NY 11746 TWX 221201 516-271-9600
R BLUMKIN EMP 450 ENG 10
ADV PG 64

AZ Faser Technical Sales Scottsdale 602-948-6434
CA Fetty/Schoendue El Segundo 213-322-4991
CA Cain-White & Co Los Altos 415-948-6533
CO FG Mktg Co Englewood 303-795-9176
FL R C Simon & Co Lighthouse Pt 305-941-2757
GA Mountain Electro Products Norcross 404-448-5594
IL Technical Sales Inc Chicago 312-237-7210
MA R F Assoc Topsfield 617-887-9762
MN TWC Sales New Brighton 612-636-1770
NM Technology Mktg Assoc Albuquerque 505-345-8921
NY Sweetco Assoc Utica 315-797-6721
OH J May Assoc Kettering 513-299-8424
PA M Lader Lafayette Hill 215-825-3177
TX Vector Sales Richardson 214-234-4291
WA Quest Marketing Bellevue 206-747-9424
FR R F Microwave St Laurent PQ 514-335-2335

AMERICAN THERMOELECTRIC
25 DOCK ST MT VERNON
NY 10550 914-664-7330
G FRANK UP TO \$100K

AMERICAN TRANS-COIL CORP
124-06 101ST AVE RICHMOND
HILL NY 11419 718-441-5207
W CLANCY EMP 75 ENG 5 \$1,000-\$2,500K

AMERICAN ULTRAVIOLET CO
242 COMMERCE CHATHAM
NJ 07928 TWX 139-266 201-635-8355
M STINES EMP 17 ENG 2 \$1,000-\$2,500K
CA American Ultraviolet Santa Ana 714-834-1331

AMERICAN ZETTLER INC 16881
HALE AVE IRVINE CA 92714
TWX 67-8472 714-660-1670
D BARKHURST EMP 200 ENG 8
AL MacKay Smith & Assoc Huntsville 205-539-8000
AZ Thorson Desert States Scottsdale 602-998-2444
CA Groh Assoc Irvine 714-837-9871
CA Gene C Woernper Co Mtn View 415-964-5454
CO Delta Sales Assoc Englewood 303-799-0646
CT Forsberg Sales Westport 203-222-1787
FL Perrott Assoc Clearwater 813-443-5214
GA MacKay Smith & Assoc Norcross 404-449-7444
IL KMA Sales Co Rolling Meadows 312-398-5300
IN Berndt Assoc Carmel 317-844-0114
KS AME Sales Overland Park 913-262-3971
MA Forsberg Sales Taunton 617-824-3840
MI Tamco Inc Ypsilanti 313-572-1950
MN R W Marshall Co Mnpls 612-929-0457
MO AME Sales St Charles 314-947-0333
NJ Danco Elctn Sales Corp Cherry Hill 609-424-5590
NM Thorson Desert States Albuquerque 505-293-8555
NY R E Breuer Co So Farmingdale 201-388-5045
NY B H Tolleison Assoc Rochester 716-271-4141
NC Mountain Electro Raleigh 919-876-9666
OH Makin Assoc Cincinnati 513-871-2424
OR Thorson Co NW Beaverton 503-644-5900
TX Aid Electronics Irving 214-790-4761
WI Thorson Co Bellevue 206-455-9180
WI KMA Sales Co Milwaukee 414-259-1771

DISTRIBUTORS
AL Electro-Wise Inc Huntsville 205-830-4764
AZ Acacia Sales Tempe 602-894-2874
CA Acacia Sales San Diego 619-565-4365
CA Master Dist Santa Monica 213-452-1229
CA Cypress Elect San Jose 408-945-8400
CA Cypress Electronics Torrance 213-533-6005
CA Components Center Santa Clara 408-988-3751
CO Acacia Sales Lakewood 303-232-2882
CO Cypress Elect Wheatridge 303-431-2622
CT Greene-Shaw Co New Haven 203-397-0710
CT Time Electronics Cheshire 203-271-3200

FL	Time Elect Ft Lauderdale	305-974-4800
HI	Industrial Elect Honolulu	808-533-6095
IL	Classic Components Northbrook	312-272-9650
IN	Altex Elect Carmel	317-848-1323
MD	Pytronic Ind Savage	301-953-9650
MA	Time Elec Woburn	617-935-8080
MN	Chris Elect New Brighton	612-631-2647
MO	Time Elect St Louis	314-391-6444
NJ	Relay Specialties Fair Lawn	201-797-3313
NY	Pride Electronics Farmingdale	516-293-4020
NY	Genesee Ind Elect Buffalo	716-873-9661
NY	Connector Concepts Pt Washington	516-883-3800
NC	Resco Raleigh	919-781-5700
OH	Time Elect Dublin	614-761-1100
OR	Acacia Sales Beaverton	503-646-3377
PA	Pytronic Industries	
	Montgomeryville	215-643-2850
TX	Wallace Elect Dallas	214-340-0400
TX	Components Center Richardson	214-644-3444
TX	Cypress Elect Dallas	214-869-1435
TX	Time Elect Houston	713-530-0800
WA	Westlake Elec Sply Seattle	206-622-6600
WA	Time Elect Redmond	206-882-1600
WI	Classis Comps New Berlin	414-786-5300

AMETEK INC LAMB ELECTRIC DIV		
627 LAKE ST KENT OH 44240		
TXW	98-6497	216-673-3451
J BARCZYK EMP 500 OVER \$10,000K		
CA	J Leadam Thousand Oaks	805-497-2817
CO	W Washnock Loveland	303-663-0401
IL	L Chamberlain Mendota	312-255-3097
MN	N Novosol Shoreview	612-888-9044
OH	S Mackey Kent	216-673-3451
SC	P Trevelier Lake Wylie	803-831-7386
TX	R Dandalides Dallas	214-422-1076

AMETEK-RODAN DIV 2905 BLUE		
STAR ST ANAHEIM CA 92806		
TXW	910-591-1684	714-630-0081
S IOVIN EMP 110 ENG 5 \$5,000-\$10,000K		
AL	Alpha Marketing Huntsville	205-533-0766
AZ	Semi-Systems AZ Scottsdale	602-991-1151
CA	Gene C Woempner Co Mt View	415-964-5454
CO	Straube Assoc Westminster	303-426-0890
FL	H A Inc Coral Springs	305-752-7520
IL	Richmar Elctns Downers Grove	312-968-0118
IN	Menze Sales Ft Wayne	219-747-5616
KS	S W Wollard Co Parker	913-898-6552
MA	Marathon Sales Ltd Framingham	617-875-3566
MI	R A Casalou Inc Southfield	313-559-0350
MN	G-I Sales Inc Mendota Hts	612-454-3086
MO	H Abrams St Louis	314-569-0447
NJ	Danco Elctns Cherry Hill	609-424-5590
NY	Canavan-Scanlon Assoc Syracuse	315-437-1271
NY	Comtronic Assoc Melville	516-249-0505
TX	Cunningham Comps Corp Dallas	214-669-9706
VA	Ralley Entrps Gladys	804-283-5656
WA	Ray Over Sales Vancouver	206-695-6179
FR	R-Theta Inc Mississauga ON	416-890-0221

DISTRIBUTORS		
AZ	Hall Electronics Scottsdale	602-946-9977
CA	Permag Pacific Los Alamitos	213-594-6515
CA	Permag Sierra Sunnyvale	408-738-1080
GA	Permag Dixie Norcross	404-448-4998
IL	Permag Central Elk Grove Vlg	312-956-1140
MA	Permag Northeast Billerica	617-273-2890
MN	Permag Minnesota Eden Prairie	612-934-4635
NY	Permag Corp Hicksville	516-822-3311
NY	Fairmont Elect Sales Hauppauge	516-231-3313
OH	Permag Magnetics Toledo	419-385-4622
TX	Permag Southwest Richardson	214-699-1121

AMETEK STRAZA DIV 790 GREENFIELD		
DR EL CAJON CA 92022		
TXW	288951	619-442-3451
S FINSTAD EMP 825 ENG 180 OVER \$10,000K		

AMF CUNO GENERAL FILTER PRODS		
400 RESEARCH PKWY MERIDEN		
CT	06450 TWX 96-2457	203-237-5541
T HERRMANN EMP 700		

DISTRIBUTORS		
CA	Filterex Hayward	415-783-3700
CT	Eastern Filter Sales Brantford	203-488-7221
FL	Gulf Controls Corp Tampa	813-884-0471
GA	G S Edwards Co Atlanta	404-458-7225
IL	Semler Ind Franklin Park	312-671-4970
MA	MWM Co No Quincy	617-328-1920
MN	H R Peterson St Paul	612-646-4529
MO	Hagedorn & Gannon Brentwood	314-968-4300
NJ	Process Equip & Supply	
	Union City	201-866-5050
NY	Fluid Conditioning Equip	
	East Aurora	716-655-0330
OH	J N Fauver Cincinnati	513-891-8400
OH	Control Components Co Cleveland	216-692-3710
PA	Dempier Co Bridgeville	412-561-4400

AMF GEO SPACE CORP 5803		
GLENMONT BOX 36374 HOUSTON		
TX	77036 TWX 762-903	713-666-1611
L SPARKS EMP 250 ENG 40 OVER \$10,000K		

AMGLO CORP 5265 MICHIGAN AVE		
ROSEMONT IL 60018		
D NOVY EMP 37 ENG 5 \$1,000-\$2,500K		312-671-4321

AMHERST SYSTEMS INC 1 AMERICAN		
DR BUFFALO NY 14225		
C DOWDELL EMP 35 ENG 30 \$2,500-\$5,000K		716-631-0610

AMILON CORP 49-12 30 AVE		
WOODSIDE NY 11377		
L ROSENBLATT EMP 50 ENG 5 \$1,000-\$2,500K		718-274-1794

A & M INSTRUMENT INC 5 NASSAU ST		
ROCKVILLE CENTRE NY 11571		
TXW	125913	516-678-6960
W R WEIR EMP 150 ENG 10 \$5,000-\$10,000K		
FL	Flamingo Sales Lake Worth	305-586-2783
IL	Cleason Assoc Palatine	312-359-7230
MI	Luebbs Sales Co Livonia	313-477-3131
NJ	Neptune Electronics Fort Lee	201-461-2789
OH	Luebbs Sales Co Cincinnati	513-891-5770
PA	Luebbs Sales Co Pittsburgh	412-931-0414
WA	Control Devices NW Bellevue	206-451-8552

DISTRIBUTORS		
AZ	Metermaster Phoenix	602-243-4111
CA	Meter Master LA	213-685-4340
CA	Metermaster Palo Alto	415-968-0313
CA	Metermaster San Diego	714-560-4841
CO	R & R Instr Aurora	303-340-8728
FL	EIL Palm Bay	305-725-8300
GA	Metermaster Norcross	404-446-0166
IL	Metermaster Elk Grove Vlg	312-593-8650
IL	Pacific Indicator Countryside	312-352-3500
MD	Pytronic Ind Savage	301-792-0780
MD	EIL Sparks	301-771-4800
MA	EIL Burlington	617-272-9450
NJ	Miscorp Belleville	201-751-1190
NY	MDI Baldwin	516-546-2777
NY	Trott Electronics Clarence	716-634-8500
NY	Mettermid LIC	718-726-4850
NC	Trott Electronics Charlotte	704-376-2237
OH	Metermaster Cleveland	216-651-4100
PA	Pytronic Ind Montgomeryville	215-643-2850
PA	EIL Pittsburg	412-731-5230
TX	Metermaster Garland	214-271-5671
TX	EIL Dallas	214-931-1236
VA	Metermetrics Richmond	804-275-1999
WA	Eicher Richards Co Seattle	206-523-7888

AMKEY INC 220 BALLARDVALE ST		
WILMINGTON MA 01887		
TXW	951206	617-658-7800
M KAMENS EMP 40 ENG 4 \$2,500-\$5,000K		

AMKOR ELECTRONICS INC 1221		
RIVER BEND DR DALLAS TX 75247		
TXW	4999041	214-630-8686
J MCMILLAN EMP 100 ENG 15		

AMLAN INC 97 THORNWOOD RD		
STAMFORD CT 06903 TWX 643647		
M LANDEWEER		

AMPACET CORP 250 S TERRACE AVE		
MT VERNON NY 10550		
TXW	710-562-0187	914-699-9100
M FERNANDI EMP 275 ENG 3 OVER \$10,000K		

AMPEREX ELECTRONIC CORP		
HICKSVILLE DIV 230 DUFFY AVE		
HICKSVILLE NY 11802		
TXW	510-221-1839	516-931-6200
R CARLIN EMP 274 ENG 17 OVER \$10,000K		

AMPEREX ELECTRONIC CORP		
GEORGE WASHINGTON HWY		
SMITHFIELD RI 02917		
TXW	710-382-6332	401-762-3800
EMP 600 ENG 55 OVER \$10,000K		
AZ	Hughes Assoc Huntsville	205-533-9108
AL	Amperex Sales Tempe	602-968-7917
CA	Amperex Sales Santa Clara	408-727-6132
CA	Amperex Sales No Hollywood	818-980-4212
CO	Amperex Sales Denver	303-989-7310
FL	Hutto-Hawkins-Perego Pompano	
	Beach	305-971-1570
GA	CSR Elctrs Atlanta	404-396-3720
IL	Amperex Sales Wood Dale	312-860-7373
IN	Leslie Devco Co Indpls	317-842-3245
KS	Lowell-Kangas Shawnee Mission	913-631-3515
MD	ECSC Timonium	301-561-5811
MA	Amperex Sales Norwood	617-769-6940
MI	RC Merchant Co Farmington Hills	313-476-4600
MN	High Technology Sales Eden	
	Prairie	612-944-7274
MO	Lowell-Kangas St Louis	314-821-4050
NY	Amperex Sales Hicksville	516-931-6200
OH	Amperex Sales Dayton	513-898-9577
OR	Western Tech Sales Hillsboro	503-640-4621
PA	Amperex Sales King of Prussia	215-265-4240
TX	Amperex Sales Dallas	214-231-3481
WA	Western Tech Sales Bellevue	206-641-3900

AMPERITE CO INC 600H PALISADE		
AVE UNION CITY NJ 07087		
TXW	510-600-5102	201-864-9503
T WHALEN EMP 100		

AMPEX CORP 401 BROADWAY		
REDWOOD CITY CA 94063		
TXW	910-378-5920	415-367-2011
EMP 7475 ENG 550 OVER \$10,000K		
CA	Amperx Corp Glendale	240-5000

AMPHENOL PRODUCTS 4300		
COMMERCE CT LISLE IL 60532		
TXW	910-651-0219	312-983-3500
W MANGO EMP 7300 ENG 400 OVER \$10,000K		

CA	Amphenol Los Angeles	213-532-3180
CA	Amphenol San Francisco	408-986-0870
CO	Amphenol Boulder	303-443-4780
DC	Amphenol Washington	301-459-8484
IL	Amphenol Chicago	312-986-2330
MN	Amphenol Mnpls	612-452-5906
NH	Amphenol Salem	603-893-5033
OH	Amphenol Dayton	513-294-0461
TX	Amphenol Dallas	214-243-8420
UT	Amphenol Salt Lake City	801-364-6481
WA	Amphenol Bellevue	206-455-2525

DISTRIBUTORS		
AL	Hall-Mark Elect Huntsville	205-837-8700
AL	Schweber Electronics Huntsville	205-882-2200
AZ	Kierulff Elect Phoenix	602-437-0750
AZ	Cetec Elect Phoenix	602-272-7995
CA	Arrow Electronics Chatsworth	213-701-7500
CA	Arrow Electronics San Diego	619-565-4800
CA	Kierulff Elect LA	213-725-0329
CA	Wyle Dist El Segundo	213-322-8100
CA	Wyle Dist San Diego	619-565-9177
CA	Cetec Elect South Gate	213-773-6552
CA	Cetec Elect San Diego	714-278-5029
CA	Bell Indus Sunnyvale	408-734-8570
CA	Richey Western Santa Clara	408-727-7411
CA	Schweber Elect Irvine	714-863-0200
CA	Kierulff Elect San Diego	619-278-2111
CA	Kierulff San Jose	408-971-2610
CA	Wyle Dist Santa Clara	408-727-2411
CO	Wyle Dist Thornton	303-457-9950
CO	Newark Elect Denver	303-757-3335
CO	Kierulff Elect Englewood	303-790-4441
CT	Marshall Elect Wallingford	203-265-3822
CT	Connector Co Hamden	203-288-0004
CT	Arrow Electronics Wallingford	203-265-7774
CT	Schweber Electronics Danbury	203-748-7080
FL	Arrow Elect Deerfield Bch	305-429-8200
FL	Hamilton-Avnet Winter Park	305-628-3888
FL	Kierulff Elect St Petersburg	813-576-1966
GA	Arrow Elect Norcross	404-449-8250
GA	Hall-Mark Elect Norcross	404-447-8000
IL	Newark Elect Chicago	312-638-4411
IL	Electronic Connector Co Chicago	312-767-2200
IL	Ohm Elect Palatine	312-359-5500
IL	Klaus Radio Peoria	309-691-4844
IL	Kierulff Elect Itasca	312-250-0500
IL	Arrow Electronics Schaumburg	312-397-3444
IN	Graham Elect Indpls	317-634-8203
IN	PEI/Genesis South Bend	219-287-2911
IN	Arrow Electronics Indpls	317-243-9350
KS	Schweber Elect Overland Park	913-492-2922
KY	Schweber Elect Lexington	606-259-1477
MD	Arrow Elect Columbia	301-995-0000
MD	Pioneer Elect Gaithersburg	301-921-0666
MA	Schweber Elect Bedford	617-275-0100
MA	Industrial Components N Wilbraham	413-596-3850
MA	Kierulff Elect Billerica	617-935-5131
MA	Marshall Elect Burlington	617-272-8200
MA	Arrow Electronics Woburn	617-933-8131
MI	Wedemeyer Elect Sply Ann Arbor	313-665-8811
MI	Madison Elect Roseville	313-778-7644
MI	RS Electronics Livonia	313-525-1155
MI	Schweber Electronics Livonia	313-525-8100
MN	Arrow Elect Edina	612-830-1800
MN	Newark Elec Mpls	612-331-6350
MN	Kierulff Elect Edina	612-941-7500
MO	Walters Radio Sply KC	816-531-7011
MO	Olive Indus Elect St Louis	314-426-4640
MO	Arrow Electronics St Louis	314-567-6888
NH	Arrow Electronics Manchester	603-668-6996
NJ	Kierulff Fairfield	201-575-5300
NJ	Schweber Elect Fairfield	201-227-7888
NJ	Radio Elec Svc Pennsauken	215-925-6900
NJ	Arrow Electronics Marlton	609-596-8000
NJ	Arrow Electronics Fairfield	201-575-5300
NM	Bell Industries Albuquerque	505-292-2700
NY	Genesee Radio Parts Buffalo	716-873-9900
NY	Arrow Elect Hauppauge	516-231-1030
NY	Simcona Elect Rochester	716-328-3223
NY	Arrow Electronics Liverpool	315-652-1000
NY	Arrow Electronics Rochester	716-427-0300
NY	Pioneer-Standard Vestal	607-748-8211
NC	Arrow Electronics Raleigh	919-876-3131
NC	Schweber Electronics Raleigh	919-876-0000
OH	Schuster Elec Cincinnati	513-489-1400
OH	Schweber Elect Beachwood	216-464-2970
OH	Pioneer Elect Dayton	513-236-9900
OH	Stotts Friedman Co Dayton	513-298-5555
OH	Arrow Electronics Solon	216-248-3999
OK	Electro Entrys Okla City	405-478-1775
OR	Bell Indus Lake Oswego	503-241-4111
OR	Kierulff Electronics Portland	503-641-9115
PA	Almo Electronics Philadelphia	215-698-4000
PA	Pyttironic Ind Montgomeryville	215-643-2855
PA	Arrow Electronics Monroeville	412-856-7000
TN	Electra Distribution Nashville	615-329-3970
TX	Sterling Elect Dallas	214-243-1600
TX	Allied Elect Ft Worth	817-336-5400
TX	Sterling Elect Houston	713-627-9800
TX	Hall-Mark Dallas	214-343-5000
TX	Kierulff Elect Dallas	214-343-2400
TX	Kierulff Elect Houston	713-530-7003
TX	Harrison Equipment Stafford	713-879-2772
UT	Diplomat SLC	801-486-4131
WA	Bell Indus Bellevue	206-747-1511
WA	Wyle Dist Bellevue	206-453-8300
WA	Kierulff Electronics Kent	206-575-4442
WI	Electronic Exporitors Milwaukee	414-228-8192

PA	AMP Inc Berwyn	215-647-6060
PA	AMP Inc Malvern	215-296-5303
TN	AMP Inc Knoxville	615-691-5710
TX	AMP Inc Irving	214-258-1114
VA	AMP Inc Alexandria	703-683-5955
WA	AMP Inc Renton	206-255-0064
FR	AMP of Canada Ltd Markham Ont	416-495-6222
DISTRIBUTORS		
AL	Powell Elect Huntsville	205-539-2731
AZ	Dalis Elect Supply Phoenix	602-275-2626
AZ	Sterling Electronics Phoenix	602-258-5531
AZ	Hamilton/Avnet Elect Tempe	602-231-5100
CA	Pyramid Elect Supply Santa Clara	408-727-9810
CA	RPS Elect Buena Park	213-744-0355
CA	Marshall Elect Group Canoga Pk	213-442-7204
CA	Marshall Elect Group San Diego	619-578-9600
CA	Powell Electronics San Jose	408-739-4321
CA	Pyramid Electronics Fullerton	714-773-0781
CA	Electro-Sonic Components	
	Hawthorne	213-679-9781
CA	Marshall Industries El Monte	818-442-7204
CA	RPS Electronics San Diego	619-292-5611
CA	Cypress Elect San Jose	408-945-8400
CA	Hamilton/Avnet Elect Sacramento	916-925-2216
CA	Hamilton/Avnet Elect Sunnyvale	408-743-3355
CA	Marshall Industries Irvine	714-556-6400
CO	Marshall Industries Denver	303-427-1818
CT	Cronin Electronics Wallingford	203-265-3822
CT	Marshall Industries Wallingford	203-265-3822
FL	Hammond Elect Orlando	305-849-6060
GA	Schweber Electronics Norcross	404-449-9170
GA	Schweber Elect Hollywood	305-927-0515
IL	Semiconductor Specialists	
	Elmhurst	312-279-1005
IL	Schweber Electronics Elk	
	Grove Vlg	312-364-3750
IN	Graham Elect Indpls	317-634-8202
KS	C Tennant Sons & Co Edwardsville	913-441-1801
MD	MS Elect Gaithersburg	301-340-6400
MD	Powell Electronics Columbia	301-621-4070
MA	Cronin Elect Needham	617-449-5000
MA	C & H/Rush Industries Winchester	617-629-5800
MA	Hamilton/Avnet Elect Woburn	617-273-7500
MI	RS Elect Livonia	313-525-1155
MI	RS Elect Grand Rapids	616-241-3483
MI	Schweber Elect Edina	612-941-5280
MI	Electronix Inc St Charles	314-946-6424
MI	C & H Elect Hudson	603-882-1133
MI	Federated Purchaser Kenilworth	201-272-0505
MI	Marshall Electronics Fairfield	201-882-0320
MI	Hamilton/Avnet Elect Cherry Hill	609-424-0110
MI	Peelless Radio Corp Lynbrook	516-593-2121
MI	Summit Dist Buffalo	716-884-3450
MI	Harrison Radio Corp Farmingdale	516-293-7990
MI	Schweber Electronics Westbury	516-334-7474
NC	Southeastern Elect Raleigh	919-828-2311
NC	Hammond Elect Greensboro	919-275-6391
NC	Schweber Elect Raleigh	919-876-0000
OH	Akron Elect Supply Akron	216-782-8818
OH	Hughes-Peters Inc Columbus	614-294-5351
OH	Almo Elect Corp Philadelphia	215-698-4000
PA	Powell Electronics Phila	215-365-1900
PA	Schweber Elect Horsham	215-441-0600
PA	Graham Electronics Nashville	615-242-2682
TX	Kent Elect Corp Houston	713-780-7770
TX	Kent Elect Corp Richardson	214-669-2600
TX	Kent Elect Corp Austin	512-834-1900
TX	Hamilton-Avnet Elect Irving	214-659-4157
TX	Hamilton/Avnet Elect Austin	512-837-8911
TX	Hamilton/Avnet Elect Houston	713-780-1771
TX	Kimball Elect S L C	801-328-2075
TX	Pyramid Elect Supply Kent	206-872-5800
AMPLIFIER RESEARCH CORP		
	160 SCHOOL HOUSE RD SOUDERTON	
PA	18964 TWX 510-661-6094	215-723-8181
PA	D ROTH EMP 48 ENG 6	
AZ	Mar Tech Assoc Tempe	602-968-4944
CA	O'Halloran Assoc N Hollywood	213-877-0173
CA	O'Halloran Assoc Palo Alto	415-969-1600
CO	Herb Bass Asso Boulder	303-530-7509
CT	JBL Assoc Hamden	203-281-3161
FL	Beacon Elects Clearwater	813-796-2378
FL	Beacon Elects Atlanta	404-256-9640
IL	Electronic Inst Assoc Park Ridge	312-298-2290
N	Electronic Instr Assoc Indpls	317-257-7231
MD	Delmarva Eng Asso Ltd Severna	
	Park	301-647-8007
MA	R J Sicksles Asso Lexington	617-862-5100
MA	Retro Mics Westfield	201-233-6116
NY	Hewitt & Assoc Albuq	505-299-7746
NY	Metro Mics Melville	516-271-6677
NC	Beacon Elects Raleigh	919-787-0330
OH	Micro Sales Centerville	513-433-8171
PA	Robt Meyers Assoc Philadelphia	215-224-1663
TX	Airep Elects Dallas	214-349-4360
TX	Herb Bass Assoc Bountiful	801-295-0469
VA	J J Assoc Seattle	206-246-6619
FR	Texscan Communications	
	St Laurent PQ	514-335-0152

AZ	Maddox Sales Co Phoenix	602-437-1002
AZ	Maddox Sales Co LA	213-949-7400
CA	Maddox Sales Co San Francisco	415-647-5560
CO	High Country Assoc Lakewood	303-980-8021
CT	A B Assoc Woodbridge	203-387-8211
FL	Hutto-Hawkins-Perego Maitland	305-831-2474
GA	Millar Electronics Inc Atlanta	404-261-6160
HI	Harry Sawyer Co Honolulu	808-847-1411
IL	Mika Sales Downers Grove	312-968-8403
IN	Clifford Eng & Sls Co Indpls	317-872-0007
IA	J Bertsch Elec Sales Cedar Rapids	319-395-9220
KS	Arehart-Barnds-Rains Sales	
	Overland Pk	913-649-9270
MA	G T Joyce Elec Sls Holden	617-829-6521
MI	Young & Champagne Detroit	313-491-6500
MN	Elsd Assoc Mpls	612-475-2208
MO	Pickett & Assoc Springfield	417-881-5679
NH	Beaman Assoc N Hampton	603-964-8876
NJ	R O I Sales Co Clifton	201-340-1515
NM	Maddox Sales Co Albuq	505-345-3665
NY	Disenza & Vogt Syracuse	315-451-7051
NC	Millar Elects Inc Raleigh	919-787-9564
OH	Gordon F Stofor & Bro Westlake	216-835-3900
OK	Wayne Parker Jenks	918-299-5026
OR	Cascade Western Reps Portland	503-238-8800
PA	Kunz-Powell & Assoc Glenside	215-884-1389
TX	Hicks Sales Agency Memphis	901-386-5725
TX	Glidden Electro Equip Co Dallas	214-341-0610
UT	Darger Co SLC	801-355-2873
VA	Hutcheson & Co Richmond	804-288-3236
FR	Atlas Electronics Ltd Toronto ON	416-789-7761
AMPRO COMPUTERS INC 67		
	E EVELYN AVE MTN VIEW	
CA	94041 TWX 4940302	415-962-0230
	W DOLLAR EMP 9 ENG 3 \$1,000-\$2,500K	
CA	Computer Modules Inc Sunnyvale	408-737-7727
FL	Reynolds & Assoc Melbourne	305-259-7000
MD	Commercial Video Reps	
	Millersville	301-252-8919
MA	Technologic Inc Walpole	617-668-3680
OR	Zero-Gee Electronics Corvallis	503-754-9422
TX	Texas Sales Reps Houston	713-469-8974
DISTRIBUTORS		
CA	Digital Distributors Santa Cruz	408-423-1556
WA	Peripheral Business Sys Kirkland	206-823-6661
FR	Dynacom Computer Sys Ltd	
	Vancouver BC	604-872-7737
AMP PRODUCTS CORP BOX 1776		
	SOUTHEASTERN PA 19399	215-647-1000
	G SCARBOROUGH EMP 750 OVER \$10,000K	
AMPTK INC 6 DEANGELO DR		
	BEDFORD MA 01730	617-275-2242
	N HANTZIS EMP 14 ENG 5 \$500-\$1,000K	
MA	Teknis Inc Plainville	617-695-3591
AMRAD DIV TRANSCON MFG CO		
	8411 SE ZERO ST FT SMITH	
AR	72903-7097	501-452-3987
	M BECK EMP 29 ENG 2	
AMUNEAL MFG CORP 4737 DARRAH ST		
	PHILADELPHIA PA 19124	215-535-3000
	S KAMENS EMP 110 ENG 5 \$5,000-\$10,000K	
AZ	Sheffer-Kahn Phoenix	602-257-9015
CA	C E M Santa Ana	714-835-2702
CA	Wm Parks Assoc Fremont	415-796-0875
CO	Waugaman Assoc Wheatridge	303-423-1020
GA	Mountain Electro Prods Norcross	404-448-5594
IL	Brock & Cushman Chicago	312-622-4110
KS	Midtec Assoc DeSoto	913-441-6565
MD	Muncy Sales Baltimore	301-484-6316
MA	MPS Elects Norwood	617-769-8700
MN	Hedtkie Mktg Inc Hamel	612-478-2120
MO	Midtec Assoc Florissant	314-837-5200
NM	Sheffer-Kahn Co Albuq	505-345-3591
NY	Tech-Mark Inc Mendon	716-624-3840
OH	F L Ohmer & Assoc Kettering	513-434-1454
PA	K C Assoc Kulpville	215-362-7155
TX	Barry Sales Richardson	214-234-0255
UT	Waugaman Assoc SLC	801-261-0802
WA	Rep-West Seattle	206-283-8351
WI	Brock & Cushman Waterford	414-662-3154
ANADEX INC 1001 FLYNN RD		
	CAMARILLO CA 93010	
	TXW 910-494-2761	805-987-9660
	K MATHEWS EMP 360 ENG 25 OVER \$10,000K	
ANADYNE INC 721 W WHITTIER BLVD		
	LA HABRA CA 90631	213-697-3116
	EMP 60 ENG 8 \$1,000-\$2,500K	
ANALOG DEVICES INC RTE		
	1 IND PARK BOX 280 NORWOOD	
MA	02062 TWX 710-394-6577	617-329-4700
	K RUTHERFORD EMP 5000 ENG 500 OVER \$10,000K	

AL	Currie Peak & Frazier Huntsville	536-1506
AZ	Piper Sales Co Tempe	949-0048
CA	Analog Devices Inc San Jose	947-0633
CA	Analog Devices Inc Huntington	
	Bch	842-1717
CO	Piper Sales Longmont	443-5337
FL	Currie Peak & Frazier Orlando	855-0843
IL	Analog Devices Glendale Hts	653-5000
IN	Torkelson Assoc Indpls	244-7867
KS	Technical Sales Assoc Shawnee	
	Mission	888-3330
MD	Rep-Tron Inc Baltimore	799-7490
MI	Rathburg Assoc Detroit	882-1717
MN	Torkelson Assoc Mpls	835-2414
MO	Technical Sales Assoc St Louis	725-5361
NM	Grady Moore Assoc Albuquerque	262-1416
NY	Harwood-Sandler Huntington	673-1900
NY	Labtronics Inc Syracuse	455-7314
NC	Currie Peak & Frazier Greensboro	273-3040
OH	Analog Devices Dublin	764-8795
PA	Analog Devices Ft Washington	643-7790
TX	Analog Devices Richardson	231-5094
WA	Analog Devices Renton	251-9550
FR	Tracan Elctns Corp Mississauga	
	ON	625-7752
ANALOGIC CORP 8 CENTENNIAL DR		
	PEABODY MA 01960	
	TXW 710-348-0425	617-532-5660
	W LUNDGREN EMP 1800 ENG 250 OVER \$10,000K	
CA	Analogic Corp San Jose	408-247-6401
CA	Analogic Corp Rancho Palos	
	Verdes	213-541-2849
FL	Analogic Corp Cape Canaveral	305-799-2300
IL	Analogic Corp Schaumburg	312-882-5880
MD	Analogic Corp Columbia	301-596-5512
MI	Analogic Corp Northville	313-349-0233
MN	Analogic Corp Minneapolis	612-560-3656
OH	Analogic Corp Rocky River	216-331-1990
PA	Analogic Corp 938 Ethan Allen Berwyn	
TX	Analogic Corp Houston	713-541-5331
ANALOG MODULES INC 126		
	BAYWOOD AVE LONGWOOD FL 32750	305-339-4356
	W HUDSON EMP 22 ENG 4 \$500-\$1,000K	
ANALOG SOLUTIONS 940 DETROIT AVE		
	CONCORD CA 94518 TWX 284238	415-686-6660
	J SCHNEIBERG EMP 200 ENG 20 OVER \$10,000K	
AZ	Memco Scottsdale	602-952-2254
CA	Leading Concept Technologies LA	714-851-0654
IL	KMA Sales Co Rolling Meadows	312-398-5300
IA	C H Horn Assoc Cedar Rapids	319-393-8703
MI	Silicon General N Andover	617-794-8646
MI	A P Assoc Brighton	313-229-6550
MN	Comstrand S Mpls	612-788-9234
MO	John G Macke Co St Louis	314-432-2830
NJ	R T Reid Assoc Teaneck	201-692-0200
NY	Bob Dean Inc Ithaca	607-257-1111
NC	Barker Assoc Raleigh	919-876-0282
OH	Geotronics Inc Cleveland	216-526-2535
TX	Southern States Mktg Dallas	214-238-7500
WI	KMA Sales Co Milwaukee	414-259-1771
FR	RPS Elctns Montreal PQ	514-341-3663
ANALYTICAL MEASUREMENTS INC		
	31 WILLOW ST CHATHAM	
NJ	07928	201-273-7500
	F PAULLY EMP 35 ENG 3	
ANAREN MICROWAVE INC 6635		
	KIRKVILLE RD E SYRACUSE	
NY	13057 TWX 310-6854-518/568	315-432-8909
	L NIELSEN EMP 400 ENG 30 OVER \$10,000K	
AZ	Thorson Desert States Scottsdale	602-998-2444
CA	Waldman Assoc Palo Alto	415-961-4100
CA	Cain Technology L A	213-477-9054
CO	Thorson Rocky Mtn Englewood	303-779-0666
FL	Southeast Com Sales Clearwater	813-447-1911
GA	Southeast Com Sales Atlanta	404-451-5353
IL	Dytec/Central Arlington Hts	312-394-3380
IN	J & B Engrg Sales Ft Wayne	219-483-2813
MD	R L Engrg Davidsonville	301-760-5533
MA	R J Sicksles Assoc Burlington	617-862-5100
MI	Comtel Instruments Southfield	313-358-2505
MN	Deerland Distb Mpls	612-331-6433
MO	Dytec/South Maryland Hts	314-569-2990
NJ	E-F Tech Sales West Orange	201-731-7203
NM	Thorson Desert States Albuq	505-293-8555
NY	E-F Tech Sales Huntington Sta	516-549-1818
NY	Robtson Skaneateles	315-685-5731
OH	Comtel Instruments Cleveland	216-442-8080
PA	Wm Assoc Amber	215-643-4119
TX	KEMCO INC Irving	214-255-0537
WI	Deerland Distb Waukesha	414-784-1414
FR	Louis Albert Assoc Ottawa ON	613-737-5941

For **AMP**
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AND 770 AIRPORT BLVD BURLINGAME CA 94010 TWX 910-374-2353 S WAY EMP 6 ENG 1 OVER \$10,000K	415-347-9916
AL Currie, Peak, Frazier Huntsville	205-536-1506
AZ Foley, Talient & Lee Co Tempe	602-438-1564
AZ Anjon Electronics Tempe	602-894-1332
AR J Y Schoonmaker Co Little Rock	501-375-2168
CA Wm J Purdy Co Burlingame	415-347-7701
CA Berman-Gravley Costa Mesa	714-549-2122
CO Wm J Purdy Co Denver	303-753-6800
FL Currie, Peak, Frazier Orlando	303-855-0843
IL Hill-Gray Assoc Elmhurst	312-832-4101
MD S K MacDonald Inc Baltimore	301-982-1088
MA Sturgeon Co Needham	617-444-6603
MN Hel-lite Mpls	612-861-6051
MO Harris-Hanson Co St Louis	314-432-3611
NJ Harold Gray Assoc Englewood	201-894-0894
NM Wm J Purdy Co Albuquerque	505-266-7959
NY Paston-Hunter Syracuse	315-437-2843
NC Currie, Peak, Frazier Greensboro	919-273-3040
OH McCadden Sales Columbus	614-459-1280
OK J Y Schoonmaker Co Tulsa	918-744-1910
OR Wm J Purdy Co Beaverton	503-641-9373
PA S K MacDonald Inc Phila	215-545-1205
TX J Y Schoonmaker Co Dallas	214-349-1650
WA Wm J Purdy Co Redmond	206-882-3144

DISTRIBUTORS

CA Dunlap Electronics Sacramento	916-442-5801
CA Ratel Electronics San Jose	408-946-4300
CA Rose Electronics San Jose	408-263-9700
CA Sierra West Elect Sunnyvale	408-747-1188
CA Waltronics Sales Santa Clara	408-727-1200
CA Zackit Sacramento	916-446-3131
CA Panel Part Co Chatsworth	818-998-5991
CO Denver Witronics Co Arvada	303-431-7161
CO Integrated Electronics Denver	303-292-6121
CT Sager Elect Supply Wallingford	203-265-4600
CT Utronics Stratford	203-378-4201
FL ESL Elect Dist Miami	305-593-6060
HI Honolulu Electronics Honolulu	808-949-5564
IL Advent Electronics Rosemont	312-297-6200
IL Newark/Chicago Chicago	312-638-4411
IL Industrious Niles	312-996-5630
MA Land Elect Sply Lynn	617-592-2220
MI Advent Electronics Farmington Hills	313-477-1650
MI SRA Inc Detroit	313-965-8550
MN Electronic Center Mpls	612-371-5200
MN Joel Co Mpls	612-935-6202
NJ Garden State Elect Cranford	201-272-6400
NY Add Electronics East Syracuse	315-427-0300
NY Genesee Radio & Parts Co Buffalo	716-873-9661
NY Rome Electronics Rome	315-337-5400
NY Simcona Rochester	716-328-3230
OH REM Electronics Warren	216-373-1300
OH Stotts-Friedman Co Dayton	513-298-5555
OR Almac Elec Co Beaverton	503-629-8090
OR Rose Electronics Lake Oswego	503-629-9288
PA Almac Electronics Philadelphia	215-698-4000
PA Kass Electronics Drexel Hill	215-449-2300
TX Allied Electronics Ft. Worth	817-336-5401
TX South West Elect Richardson	214-234-3050
UT Standard Supply Co SLC	801-486-3371
WA Almac Elec Co Bellevue	206-643-9992
WA Integrated Electronics Bellevue	206-455-2727
WA United Products Seattle	206-882-5025
WI Industrial Elect Corp Milwaukee	414-276-1212

ANDEN-HAGERLING INC 31899 MILES RD CHAGRIN FALLS OH 44022	216-349-0370
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ANDERS INC 77 WOLCOTT RD SIMSBURY CT 06070 R GROVER EMP 18 ENG 3 \$500-\$1,000K	203-658-7666
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ANDERSEN LABORATORIES INC 1280 BLUE HILLS AVE BLOOMFIELD CT 06002 TWX 710-425-2390 EMP 125 ENG 15 OVER \$10,000K ADV PG 193	203-242-0761
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CA Peninsula Tech Sales 1101 San Antonio Rd Mt View	415-965-3636
IL Feller Assoc 550 Frontage Northfield	312-446-8065
IA Feller Assoc 1010 29 St NE Cedar Rapids	319-364-0566
MA High-Tech Sales 6 Darnon St Wayland	617-653-3838
NY Carnes Assoc 555 Broad Hollow Melville	516-694-1600
PA Rabal Assoc Box 114, 2340 Pine Huntingdon Valley	215-947-4825
TX McDonald Assoc 2012 15 Av Ft Worth	817-429-4272
FR R F Microwave St. Laurent PQ	514-335-2335
FR Evergo Corp Taipei Taiwan	02-769-9945
FR Japan Telecom Corp Tokyo Japan	03-4035301
FR Sclair Dist Pty Kilsyth Vic Australia	725-9677
FR Shoshin Shoji Kaisha Ltd Tokyo Japan	03-270-5921

DISTRIBUTORS

FL PMS-Precision Mktg Svc Coral Springs	
MD Neal Deoul Assoc Owings Mill	301-363-4311
NY Milano Bros Intd Rockville Ctr	516-764-2200
OH Aschbacher & Assoc Dayton	513-252-7785

ANDERSON ELECTRONICS INC 310 PENN ST BOX 89 HOLIDAYSBURG PA 16648 TWX 510-691-2516 W ANDERSON EMP 85 ENG 3 \$1,000-\$2,500K ADV PGS 149,304	814-695-4428
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CA Logan Sales Santa Clara	408-496-0660
CA GRU Assoc Fullerton	714-738-0903
CT LJM Assoc Branford	203-488-7995

FL Lobo Marketing Assoc New Port Richey	813-848-8578
GA B T Funderburk Inc Lawrenceville	404-963-9495
IL R K Electronics South Elgin	212-695-8552
MA Newby Inc Hanover	617-878-1512
MI R C Nordstrom & Co Lathrup Village	313-559-7373
NY PAF Assoc Smithtown	516-360-0940
NY Murcan Sales Corp Syracuse	315-437-0734
NC B T Funderburk Inc Raleigh	919-782-3493
OH Dynel Co Worthington	614-436-9452
PA Espy Sales Inc Rydal	215-576-0780
TX GWPProducts Plano	214-422-1746
WA Harry Levinson Co 400 Boren N Seattle	206-382-1300
FR Gidden-Morton Assoc Mississauga ON	416-671-8111

ANDERSON JACOBSON INC 521 CHARCOT AVE SAN JOSE CA 95131 TWX 910-338-0136 T ZMACH EMP 650 ENG 30 OVER \$10,000K	408-263-8520
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CA Anderson Jacobson Torrance	213-328-9511
CA Anderson Jacobson San Mateo	415-571-5171
CO Anderson Jacobson Englewood	303-779-8598
CT Anderson Jacobson Irving TX	214-258-6710
FL Anderson Jacobson Cincinnati OH	513-793-6900
GA Anderson Jacobson Norcross	404-448-1520
IL Anderson Jacobson Rosemont	312-671-7155
MD Anderson Jacobson Gaithersburg	301-840-5700
MA Anderson Jacobson Woburn	617-935-4251
MI Anderson-Jacobson Oak Park	313-967-1414
MN Anderson-Jacobson Pittsburgh PA	412-781-1167
MO Anderson-Jacobson Maryland Hts	314-434-4477
NJ Anderson-Jacobson Fair Lawn	201-794-9316
NY Anderson-Jacobson New York	212-594-9630
OH Anderson Jacobson Middleburg Hts	216-234-3450
PA Anderson Jacobson Jeffersonville	215-631-9800
TX Anderson Jacobson Houston	713-688-9707
WA Anderson Jacobson Tukwila	206-575-8024
FR Anderson Jacobson Markham ON	416-475-5510

ANDERSON POWER PRODUCTS 145 NEWTON ST BOSTON MA 02135 TWX 940453 J BECKER EMP 10 OVER \$10,000K	617-787-5880
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AZ Bidwell Sales Assoc Mesa	602-265-2029
CA Bidwell Sales Assoc Gardena	213-770-0300
CA Anderson Power Products Pleasanton	415-846-8686
CO Challenge Sales Co Northglenn	303-450-2402
CT R F Duffy Assoc Orange	203-795-3678
IL Anderson Power Products Chicago	312-777-1558
KY Anderson Power Products Kona	606-855-7757
MA R F Duffy Assoc Braintree	617-848-3550
MI C Armstrong & Co Troy	313-524-1414
MN Bemar Sales Co Mahtomedi	612-426-4448
NY A C Schultz Hamburg	716-648-7036
OH J R Boyver Assoc Hudson	800-362-6613
OH PC Elect Sales Westerville	800-582-1364
OR SPS Electronics Portland	503-297-6919
PA Continental Sales & Engrg Pittsburgh	412-241-5660
TX Anderson Power Products Garland	214-276-2819
WA Wallace Roy Assoc Federal Way	206-838-5088
WV Anderson Mining Prods Ctr Princeton	304-487-3428
FR Tortech Mtg Toronto ON	416-536-1441

DISTRIBUTORS

AL Matthews Elec Sply Birmingham	205-254-3192
CA Term Con Fresno	209-237-5817
CA McCormick-Morgan San Francisco	415-826-9559
CA Kinnaman Electric Wilmington	213-775-3381
CO Conley Equip Co Denver	303-296-0320
FL U S Air motive Miami Springs	305-885-4991
GA EMS Inc Rossville	404-866-7027
IL Reverse Elec Supply Chicago	312-738-3636
IL Blitz Elec Supply Kankakee	815-933-5536
IA Hubill Inc Davenport	319-324-9147
MA Mass Gas & Elec Supply Watertown	617-926-4707
MN H M Cragg Co Mpls	612-721-7444
MO Renhouse Elec Supply KC	816-421-7350
NE Ash Battery Sys Omaha	402-334-0250
NJ Turtle & Hughes Linden	201-574-3660
NY Peak Power Inc N Armitville	516-789-1100
NY J F Kolenberg Assoc Watervliet	518-274-1532
OH A J Gates Co Cleveland	216-663-0700
PA Escoc Elec Supply Phila	215-923-6050
PA McCullough Elec Co Pittsburgh	412-261-2420
TX Packaged Indus Power Garland	214-343-1788
TX Sabayrac Battery Assoc Houston	713-923-2246
TX Lectriparts NW Kent	206-872-3830
WV VR/Wesson Ind Supply Beckley	304-255-1416
WI Storage Battery Sys Butler	414-781-5800

ANDONIAN CRYOGENICS INC 26 FARWELL ST NEWTONVILLE MA 02160 M ANDONIAN EMP 25 ENG 6	617-969-8010
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ANDREW CORP 10500 W 153RD ST ORLAND PARK IL 60462 TWX 910-651-3340 H MCKEE EMP 2400 OVER \$10,000K	312-349-3300
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CA Andrew Calif Corp Upland	714-946-7777
CO Andrew Corp 451 E 58 Ave Denver	303-534-1788
MD Andrew Corp McLean	703-442-8771
MA Andrew Corp 594 Marret Lexington	617-862-0888
NJ Andrew Corp Ridgewood	201-652-1310
TX Andrew Corp Denton	817-566-2400
FR Andrew Antenna Co Ltd Whitby ON	416-668-3348

ANDROMEDA SYSTEMS 9000 ETON AVE CANOGA PARK CA 91304 TWX 910-494-1248 M MORGAN EMP 25 ENG 3 \$2,500-\$5,000K	818-709-7600
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ANGELICA UNIFORM GROUP 700 ROSEDALE AVE ST LOUIS MO 63112 J KLOPFER EMP 4000 OVER \$10,000K	800-325-8032
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ANGO ELECTRONICS CORP BOX 112 HARRISON NJ 07029 TWX 222449990 K CHAN EMP 10 ENG 4 \$100-\$250K	201-484-1115
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ANILAM ELECTRONICS CORP 5625 NW 79 AVE MIAMI FL 33166 TWX 26-4024 B BLIZZARD EMP 230 ENG 16	305-592-2727
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ANN ARBOR TERMINAL INC 6175 JACKSON RD ANN ARBOR MI 48103 EMP 50 ENG 8 \$5,000-\$10,000K	313-663-8000
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ANORAD CORP 110 OSER AVE HAUPPAUGE NY 11788 TWX 510-227-9894 T DERENZO EMP 260 OVER \$10,000K	516-231-1995
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CA P Bove San Jose	408-238-9793
IL B Matthes Chicago	312-351-8359

ANNIS CO R B 1101 N DELAWARE ST INDIANAPOLIS IN 46202 R ANNIS EMP 10 ENG 3 \$250-\$500K	317-637-9282
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ANRITSU AMERICA INC 128 BAUER DR OAKLAND NJ 07436 J POOLER EMP 50 ENG 25 OVER \$10,000K	201-337-1111
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AZ Trembly Assoc Tempe	602-967-2058
CA Ward/Davis Assoc Costa Mesa	714-556-0955
CA D Bradley San Jose	408-287-0705
CO Trembly Assoc Wheat Ridge	303-421-8900
CO Reynolds & Assoc Melbourne	203-265-9939
CA Panterra Sales Decatur	404-325-0165
IL Dytec Central Arlington Hts	312-394-3360
IN Dytec Central Indpls	317-247-1313
KS Midtec Assoc DeSoto	913-441-6565
MA Pat Jenks Assoc Woburn	617-938-0488
MO Midtec Assoc Florissant	314-837-5200
NV Trembly Assoc Las Vegas	702-739-9797
NM Trembly Assoc Albuquerque	505-266-8616
NY RTI Great Neck	516-829-3771
NY Naco Instr Becton	215-699-2651
OH EME-I Inc High Point	919-869-3333
IL J Scheich Indpls Inc	317-787-076
OK Data Mktg Assoc Tulsa	918-599-8315
PA Eastern Instrumentation Bensalem	215-245-6861
TX Data Mktg Assoc Dallas	214-661-0301
UT Trembly Assoc SLC	801-486-5292
VA Creative Mktg Assoc McLean	703-442-9100
WA Arva-Hudson Inc Bellevue	206-455-0773
WI Dytec Central Elm Grove	414-784-9686
FR Atelco Scarborough ON	

ANRITSU CORP 10-27 MINAMIAZABU 5-CHOME MINATO-KU TOKYO JAPAN M HIRANO EMP 2800 OVER \$10,000K	03-446-1111
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DISTRIBUTORS

NJ Anritsu America Inc Oakland	201-337-1111
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ANSONICS INC BOX 910 HALFWAY OR 97834 L A GILLIS EMP 6 ENG 2 \$250-\$500K CA Cost Reduction Activities Oakland	503-742-7475 415-351-3000
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ANN TENNA INC DIV CELWAVE 26301 RICHMOND RD CLEVELAND OH 44146-1491 R FRIEDBERG	216-464-7075
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CA F Jacobson & Assoc Sherman Oaks	813-789-7593
CA Pacific Mktg Hayward	415-887-1621
CO Mountain Reps Denver	303-623-0977
FL Hutto Hawkins Perego Maitland	305-831-2474
GA Panterra Sales Decatur	404-325-0165
IL Brainard-Wilson Mktg Arlington Hts	312-437-2700
IN Midwest Reps & Assoc Zionsville	317-844-4551
KS Wm Menezes & Assoc Overland Pk	913-541-9691
MN R W Sales St Paul	612-646-2711
NH Englehardt Assoc Laconia	603-524-7791
NY Steve Kappel & Assoc Valley Cottage	914-268-9261
NY Seebor Sales Co Latham	518-785-4521
NC EME, Inc High Point	919-869-3333
OH Thomas Shelby & Co St Marys	419-394-3377
OR Dave Leonard Co West Linn	503-636-2381
PA Marketing Analysts Worthington	614-436-2804
TX Robt E Nesbitt Co Dallas	214-357-460
VA EME IV Inc Williamsburg	804-253-0171
WI Brainard Wilson Mktg Waukesha	414-797-7941
FR LeBlanc & Royle Oakville ON	416-844-1241

ANTENNAS FOR COMMUNICATIONS INC 334 CYPRESS RD OCALA FL 32672 TWX 810-858-0307 W RIESZ EMP 270 ENG 5 \$5,000-\$10,000K	904-687-412
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ANTENNA SPECIALISTS CO 12435 EUCLID AVE CLEVELAND OH 44106 TWX 98-0732 L KLINE EMP 300 ENG 8 OVER \$10,000K	216-791-7871
CA Bassett Sales Corp No Hollywood	213-877-7121
CA JN Sales Rancho Cordova	
CO K-C Marketers Denver	303-733-5556
GA Dave Joyner & Assoc Roswell	404-998-975
ID Alster Communications Boise	208-362-127
IL PLM Sales Hanover Pk	312-830-5071
IN New/Era Sales Carmel	317-844-4531
KS Maury E Bettis Co Olathe	316-265-8255
MA Montague-Murray Inc N Scituate	617-545-5501

MI	Central Elctns Sales Co		
	Royal Oak	313-589-2266	
MN	Ned Gordon & Assoc Stillwater	612-944-1121	
NJ	Baum & Epstein Assoc Englewood	201-569-7600	
NY	Leonard D Allen Inc North Syracuse	315-437-8387	
OR	Bear Marketing Richfield	216-659-3131	
OH	Earl & Brown Co Portland	503-245-2283	
PA	Stinson Assoc Wynnewood	215-896-7378	
TX	Bob Gunn & Assoc Carrollton	214-733-1222	
FR	AC Simmonds & Sons Ltd Pickington ON	416-839-8041	
ANTONA CORP	2100 S SAWTELLE BLVD W LOS ANGELES CA 90025	213-473-8995	
	EMP 6 ENG 2 \$250-\$500K		
APAHOUER-ELCOM INC	101 WALNUT ST WATERTOWN MA 02172	617-924-1505	
	C BERG EMP 55 ENG 2 \$2,500-\$5,000K		
A P CIRCUIT CORP 513 E 86 ST	NEW YORK NY 10028 TWX 428759	212-737-1348	
	D ELLERN		
	ADV PG 181		
MI	S Sterling Comp Detroit	313-255-1970	
NJ	Reps Five Matawan	201-495-2315	
OH	S Sterling Comp Cleveland	216-442-8080	
FR	Mesureurs Paris France	1-583-66-41	
FR	Robinson Electronics Vallingby Sweden	08-38 4895	
FR	Jet Benelux Brussels, Germany	02-672 3433	
FR	Telemeter Elctn Ag Zurich	01-25-7872	
FR	Telemeter Electronic Donaworth Ger	0906-5091	
FR	Instrutek Horsens Den	05-611100	
APEX MACHINE CO	3000 NE 12TH TERR FORT LAUDERDALE FL 33334	305-566-1572	
	A CONINGSBY EMP 40 ENG 5		
APEX MICROTECHNOLOGY CORP	5980 N SHANNON RD TUCSON AZ 85741 TWX 170631	602-742-8600	
	R OLSCHIEWSKI EMP 100 ENG 6 \$5,000-\$10,000K		
CA	California Elctn Mktg Santa Ana	714-835-2702	
CA	Kolm Mktg Assoc Los Altos	415-948-2635	
CO	W H Howard Assoc Denver	303-426-3499	
IL	LGS Electronics Chicago	312-456-9616	
MD	Nelson Electronic Ellicott City	301-747-7887	
MA	J K Assoc Malden	617-321-2922	
MN	Merrill Franklin Co Bloomington	612-854-9446	
NV	California Elctn Mktg San Diego CA	714-692-3551	
NJ	T & K Sales Midland Park	201-652-9395	
NY	T & K Sales Smithtown	516-724-3456	
OH	T X Sales Ft Wayne	219-489-4447	
RI	Dynamic Technologies Southbury CT	203-262-6220	
RI	Repmasters Sherman	214-247-6236	
APM-HEXSEAL CORP 44 HONECK ST	ENGLEWOOD NJ 07631	201-569-5700	
	TWX 13-3403		
	EMP 45 ENG 2		
	ADV PG 436		
AL	L & D Inc Huntsville	205-837-1469	
CA	Porter Co Chatsworth	818-700-0808	
CA	Porter Co San Diego	619-275-0641	
CA	Ed B Hoin & Assoc San Carlos	415-592-6401	
2A	Delltron Co Denver	303-373-0300	
2T	Gerber Sales Corp Middletown	203-347-3000	
-L	Newell-Hynes Deerfield Bch	305-429-3207	
-A	L & D Inc Atlanta	404-395-7079	
-L	Hill-Gray Inc Elmhurst	312-832-4101	
-A	PMR Corp Cedar Rapids	319-362-9177	
-S	PMR Corp Overland Park	913-381-0004	
VA	NKA Inc Silver Spring	301-585-6141	
MD	Gerber Sales Corp Waltham	617 890-3334	
MI	C B Jensen & Assoc Troy	313-643-0506	
MN	Murnco Bloomington	612-854-4161	
NO	PMR Corp St Louis	314-569-1220	
NY	Tylinski Assoc Great Neck	516-466-9070	
NY	Rep-Tech Syracuse	515-437-2845	
NC	L & D Inc Greensboro	919-292-3201	
OH	Val-Skol Sales of OH Powell	614-889-0174	
PA	Tyler Griffin Co Paoli	215-647-1550	
TX	Dolfuss-Root & Co Bridgeville	412-221-4420	
TX	Robert P Votteler Dallas	214-823-2320	
UT	Delltron Co SLC	801-268-6664	
WA	Evergreen Marketing Seattle	206-633-3160	
FR	A Deskin Sales Corp Montreal PQ	514-331-2860	
FR	A Deskin Sales Corp Markham ON	416-475-1212	
FR	Southern Int Sales Corp Santurce PR	809-726-3137	
DISTRIBUTORS			
CA	Western Electromotive/Shphd Garden Grove	714-895-0060	
CO	Industrial Electronics Englewood	303-694-9444	
ST	Jan Elect Supplies New London	203-442-4386	
FL	Electronic Equip Co Miami	305-871-3500	
FL	Peerless Radio Corp Ft Lauderdale	305-963-4141	
L	Electro Kinetics Wood Dale	312-595-6700	
L	Federal Screw Prod Inc Chicago	312-478-5144	
L	Newark Electronics Chicago	312-784-5700	
N	Graham Elect Supply Indpls	317-634-8202	
ND	Marine Air Supply Kensington	301-949-9560	
VI	Sager Elec Sply Co Hingham	617-749-6700	
VI	S-F Elect Supplies Grand Rapids	616-459-0216	
VN	Aero-Space Commuter Supplies Mrpls	612-884-4725	
VO	LCOMP Maryland Hts	314-291-6200	
VO	LCOMP KC	816-221-2400	
VO	Electronic Equip Co Hempstead	516-538-5510	
VO	Hardware Specialty Co LIC	212-361-9393	
VO	Peerless Radio Lynbrook	516-593-2121	
VO	Rochester Screw & Bolt Rochester	716-427-7450	

OH	Hughes-Peters Cincinnati	513-351-2000	
OH	Hughes-Peters Columbus	614-294-5351	
OH	Midland Electric Cleveland	216-248-3800	
OK	PEI-Genesis Elect Tulsa	918-254-6591	
PA	Barno Radio Co McKeesport	412-751-5866	
PA	Sanson & Rowland Phila	215-929-9264	
PA	Peak Elect Corp Wayne	215-293-9000	
WA	Bell Ind Bellevue	206-747-1515	
APOLLO LASERS INC	20977 KNAPP CHATSWORTH CA 91311	213-709-1111	
	TWX 66-2278		
	F HOUSTON EMP 50 ENG 10 \$2,500-\$5,000K		
APOLLO MAGNETICS CORP	2720 W BEVERLY BLVD LOS ANGELES CA 90057 TWX 910-321-4348	213-381-2500	
	D ELDERSON EMP 300 ENG 7 OVER \$10,000K		
APPLE COMPUTER INC	20525 MARIAN AVE CUPERTINO CA 95014	408-996-1010	
	EMP 4500 OVER \$10,000K		
APPLE RUBBER PRODUCTS INC	310 ERIE ST LANCASTER NY 14086 TWX 91-251	716-684-6560	
	J CARVER \$5,000-\$10,000K		
NY	Apple Rubber Products	800-828-7745	
APPLETON PAPERS INC	BOX 359 APPLETON WI 54912	414-734-9841	
	P CORAZZARI		
APPLICON	4251 PLYMOUTH RD BOX 986 ANN ARBOR MI 48106	313-995-6000	
	TWX 818-223-6039		
	EMP 1400 ENG 250		
AZ	Applicon Phoenix	602-897-0101	
CA	Applicon Costa Mesa	714-557-2920	
CA	Applicon Los Angeles	213-645-2005	
FL	Applicon Orlando	305-857-8701	
GA	Applicon Atlanta	404-395-0756	
MA	Applicon Burlington	617-229-8200	
MJ	Applicon Schaumburg	312-397-7272	
NJ	Applicon Iselin	201-750-0970	
OR	Applicon Portland	503-292-0173	
PA	Applicon King of Prussia	215-337-3353	
TX	Applicon Dallas	214-386-0157	
APPLIED BUSINESS TECHNOLOGY CORP	365 BROADWAY NEW YORK NY 10013	212-219-8945	
	D BIENKOWSKI EMP 25		
APPLIED CIRCUITS INC	36-06E 43 AVE LONG ISLAND CITY NY 11101	718-786-7200	
	EMP 23 ENG 1 \$500-\$1,000K		
APPLIED CIRCUIT TECHNOLOGY	2931 LAJOLLA ST ANAHEIM CA 92806 TWX 182885	714-632-9230	
	J HAHN EMP 180 ENG 40 OVER \$10,000K		
MA	Direct of New Eng Burlington	617-272-6565	
APPLIED COMMUNICATIONS DIV	AMSTAR TECH PRODS INC 5300 SPECTRUM DR FREDERICK MD 21701 TWX 710-828-9706	301-694-5300	
	EMP 180 ENG 30		
NM	J Smith & Assoc Albuquerque	505-265-3406	
WA	Thorson Co Bellevue	206-455-9180	
DISTRIBUTORS			
CA	Interface Intl Saratoga	408-741-0265	
APPLIED CONTROLS CO INC	1275 BLOOMFIELD AVE FAIRFIELD NJ 07006	201-227-5454	
	W BRYCE EMP 27 ENG 3 \$250-\$500K		
APPLIED DATA COMMUNICATIONS INC	14272 CHAMBERS RD TUSTIN CA 92680 TWX 183263	714-731-9000	
	M MANAHAN EMP 150 ENG 30 OVER \$10,000K		
APPLIED DESIGN CO INC	2467 SHERIDAN DR TONAWANDA NY 14150 TWX 91-320	716-837-4400	
	H KELLAR EMP 150 ENG 7 \$5,000-\$10,000K		
CA	J H Nunn Assoc Rancho Palos Verdes	213-541-2689	
GA	M Co Warner Robins	912-987-3932	
MA	L Roffer Co Framingham	617-877-4900	
NJ	A Lubell Assoc Westwood	201-664-2262	
APPLIED DIGITAL DATA SYSTEMS INC	100 MARCUS BLVD HAUPPAUGE NY 11788 TWX 510 227 9886	516-231-5400	
	R WHITE EMP 600 ENG 40 OVER \$10,000K		
APPLIED DYNAMICS INTL	3800 STONE SCHOOL RD ANN ARBOR MI 48104 TWX 230238	313-973-1300	
	R MOQUIN EMP 85 ENG 30 OVER \$10,000K		
AL	Currie, Peak & Frazier Huntsville	205-536-1506	
CA	Pacific Computer Reps Westlake Vlg	213 849-2532	
CT	Scientific Devices NE Mt Carmel	203-248-9361	
FL	Applied Dynamics Intl Kissimmee	305-855-4134	
GA	Currie, Peak & Frazier Norcraft	404-449-7662	
MA	Scientific Devices NE Waltham	617-890-2252	
NJ	Scientific Devices Teaneck	201 837-1004	
NY	Scientific Devices Rochester	716-334-2445	
NC	Currie, Peak & Frazier Greensboro	919-373-0380	

PA	Pennsylvania Scien Devices Spring House	215-643-3335	
TX	Applied Dynamics Intl Austin	512-327-4501	
VA	H J Heffernan Co Arlington	703-522-6666	
WA	SJI Corp Seattle	206-763-8981	
FR	Ahearn & Soper Ltd Rexdale ON	416-675-3999	
FR	Ahearn & Soper Ltd Montreal PQ	514-487-7243	
FR	Ahearn & Soper Ltd Ottawa ON	613-226-4520	
FR	Ahearn & Soper Ltd Calgary AB	403-273-7808	
APPLIED ELECTRO MECHANICS INC	384 S PICKETT ST ALEXANDRIA VA 22304 TWX 710-828-0533	703-370-0510	
	E HALLETT EMP 40 ENG 4 \$500-\$1,000K		
APPLIED ELECTRO TECHNOLOGY INT	2220 S ANNE ST SANTA ANA CA 92704 TWX 910-595-1797	714-556-6570	
	D CORE EMP 25 ENG 1 \$1,000-\$2,500K		
APPLIED ENGINEERING PRODUCTS	1475 WHALLEY AVE NEW HAVEN CT 06525 TWX 710-465-1173	203-387-5282	
	C GOFF EMP 90 ENG 4 \$5,000-\$10,000K		
AZ	Applied Engrg Prods Phoenix	602-482-5727	
CA	Allis Assoc Cupertino	408-252-2883	
CA	Calrep Westlake Village	818-991-1940	
CT	David Randall Co Cheshire	203-272-6774	
FL	EDSI Rockledge	305-724-0854	
IN	Aktron Corp Ft Wayne	219-747-3650	
KS	Midwest Tech Sales Merriam	913-236-8555	
MD	Applied Engrg Prods Frederick	301-663-4202	
NH	Applied Engrg Prods Nashua	603-883-9757	
NJ	E-F Tech Sales W Orange	201-731-7203	
NY	E-F Tech Sales Huntington Sta	516-549-2088	
OH	SAI Marketing Centerville	513-435-3181	
PA	PWC Springhouse	215-643-2550	
TX	Stevens Sales Dallas	214-350-2476	
WA	Datacom Assoc Seattle	206-285-2525	
FR	Componetics ST Laurent PQ	514-334-1464	
FR	Masten-Wright New Haven CT	203-288-1638	
DISTRIBUTORS			
CA	Electronic Resources Sunnyvale	408-745-1420	
CA	California Microsystems Simi Valley	805-522-9977	
CO	Denver Wintronics Arvada	303-431-7161	
FL	Action Electronics Melbourne	305-242-3456	
MD	Resco/Wash Beltsville	301-937-9100	
MA	Colonial Land	617-459-6400	
NY	Microwave Distributors Commack	516-543-4771	
FR	Intek Elect Ltd Vancouver BC	604-264-6831	
FR	Ferro Technique Montreal PQ	514-341-3450	
APPLIED IMAGE INC	1653 E MAIN ST ROCHESTER NY 14609	716-482-0300	
	E NAVARRO EMP 20 ENG 3 \$1,000-\$2,500K		
APPLIED MAGNETICS CORP	75 ROBIN HILL RD GOLETA CA 93117 TWX 910-334-1195	805-683-5353	
	O FUNDINGS AND EMP 4000 ENG 200 OVER \$10,000K		
CA	King Assoc Santa Clara	988-7551	
MA	Data Engrg Serv Stoneham	438-4700	
NJ	Graydon-Sherman Inc Orange	467-1401	
APPLIED MICROSYSTEMS CORP	5020 148 AVE NE REDMOND WA 98052 TWX 152471	206-882-2000	
	J GOMULA EMP 150 ENG 32		
APPLIED MICRO TECHNOLOGY INC	BOX 342 TUCSON AZ 85702	602-622-8605	
	TWX 910-952-1164		
	C DUPONT EMP 20 ENG 6 \$1,000-\$2,500K		
APPLIED OPTOELECTRONIC TECHNOLOGY CORP	1294 LAWRENCE STATION RD SUNNYVALE CA 94089	408-734-2516	
	TWX 910-339-9627		
M HORAN			
IN	AOT Cicero	317-984-4588	
APPLIED PLASTICS CO INC	612 E FRANKLIN AVE EL SEGUNDO CA 90245 TWX 910-348-6670	213-322-8050	
	L DRISCOLL EMP 25 ENG 6 \$1,000-\$2,500K		
APPLIED RESEARCH INC	160 DUPONT ST PLAINVILLE NY 11803	516-349-9200	
	TWX 550882		
	A SCANDURRA EMP 25 ENG 7 \$1,000-\$2,500K		
CA	EBA 2506 Lehigh Pl Costa Mesa	714-540-2281	
CA	EBA 4908 McConnell LA	213-822-7510	
MA	Russell Eng Svcs Lowell	617-458-7146	
NY	Industro Assoc Great Neck	516-487-2620	
A P PRODUCTS INCORPORATED	9450 PINENEEDLE DR BOX 540 MENTOR OH 44060	216-354-2101	
	TWX 810-425-2250		
	K WIGMAN EMP 70 ENG 4 \$5,000-\$10,000K		
AZ	Electronic Devel & Sales Tempe	602-438-1547	
AR	Erickson Sales Inc Little Rock	501-225-7379	
CA	Ewing-Foley Inc Los Altos	415-941-4525	
CA	Bidwell Sales Gardens	213-770-0300	
CO	Computech Mktg Englewood	303-773-3981	
GA	Millar Electronics Atlanta	404-261-6060	
IL	RMP/McBride Corp Lombard	312-932-9090	
IN	M & L Elctn Sales Indpls	317-359-4742	
LA	Erickson Sales Chalmette	504-271-1976	
MA	MacInnis Co Norwood	617-762-8090	
MO	Kathrinus Kelly Baumhauer & Co St Louis	314-647-2400	
NJ	Champion Elctn Sales Co Medford	609-983-0932	
NY	A B S Assoc Englewood	201-871-0020	
NY	R W Mitscher Co Buffalo	716-633-7970	
OH	Shamrock Elctn Sales Dayton	513-258-1227	
OK	Erickson Sales Inc Oklahoma City	405-682-2947	

OR Dussault & Assoc Portland..... 503-641-8780
TX Erickson Sales Dallas..... 214-739-5833
UT Meridian Marketing SLC..... 801-968-4177
WA Dussault & Assoc Seattle..... 206-527-5454
WI Rep 1 & Assoc Colgate..... 414-628-4016

APSCO INC 5976 HEISLEY RD
MENTOR OH 44060..... 216-352-8961
J THOMAS EMP 250 ENG 7 OVER \$10,000K

APTEK MICROSYSTEMS 700 NW 12 AVE
DEERFIELD BEACH FL 33441..... 305-421-8450
TWX 441020
J CENTENO EMP 150 ENG 30 \$5,000-\$10,000K

APTRONICS CORPORATION 9450
PINENEEDLE DR BOX 270 MENTOR
OH 44060 TWX 810-421-0017..... 800-792-0137
D KARDUM
CA WestRep Anaheim..... 714-527-2822
MD Electronic Component Mktg Towson..... 301-321-8611
MI Enco Mktg Bloomfield Hills..... 313-642-0203

APTRON LABS INC BOX 323
BLOOMINGTON IN 47402..... 812-336-4775
B PRESTI EMP 10 ENG 2 \$100-\$250K

A P W CO INC 72 W MAIN ST
ROCKAWAY NJ 07866..... 201-627-0643
A PFEIL EMP 17 \$250-\$500K
NY Abbott Assoc Seaford..... 516-781-5256

AQUA MEDIA INTL SUB OSMONICS INC
47823 WESTINGHOUSE DR FREMONT
CA 94539 TWX 6771399..... 415-651-5000

AQ SYSTEMS INC 1736 FRONT ST
YORKTOWN HTS NY 10598..... 914-962-4264
I KLINGER EMP 25 ENG 3 \$250-\$500K

ARCO ELECTRONICS INC 9822
INDEPENDENCE AVE CHATSWORTH
CA 91311 TWX 910-494-1919..... 818-882-8707
EMP 22 ENG 1 \$5,000-\$10,000K

ARCOLELECTRIC CORP 9001 CANOGA AVE
CANOGA PARK CA 91304
TWX 19-4645..... 818-700-1933
C DONZE

AREMCO PRODUCTS INC BOX 429
OSSINING NY 10562 TWX 137442..... 914-762-0685
B MILES EMP 26 ENG 7 \$2,500-\$5,000K

AZ Hill & Co Scottsdale..... 602-839-1232
CA Automation Technologies San Jose..... 408-280-7100
FL Micro Mktg Inc Orlando..... 305-788-0886
IL Byron Ellis Assoc Des Plaines..... 312-298-7626
OH Amtec Industries Cleveland..... 216-871-2887
TX Jaro Electric Sales Richardson..... 214-231-6654
WA Mars Bellevue..... 206-747-3292

ARGENT INDUSTRIES INC 477
E WENGER RD ENGLEWOOD
OH 45322 TWX 810-450-2165..... 513-836-8633
D HERRES EMP 35 ENG 2 \$2,500-\$5,000K

ARGOS PRODUCTS CO INC 600
S SYCAMORE ST GENOA IL 60135..... 815-784-5118
R EVERS EMP 50 ENG 1

CA Westech Mktg Culver City..... 870-9286
CA Meyer Ross & Fleming Burlingame..... 348-6800
FL Bencsik Assoc Ocala..... 732-9775
GA Murphy & Cota Atlanta..... 875-2525
IL G McL Cole Co Chicago..... 774-3535
IN Maish Sales Mulberry..... 296-2322
IA Nevco Inc West Des Moines..... 225-9866
LA Peregrine SW Reps Kenner..... 467-3832
MA W A Hendrickson Co North
Sollate..... 545-0652
MI Ted Firaneck Sales Pontiac..... 733-9595
MN Mel Foster Tech Sales Edina..... 941-9800
MO Nevco Inc Kansas City..... 421-1751
NJ TMC Sales Co Ft Lee..... 494-5665
NY Lewis & Dunnigan Co Syracuse..... 446-5522
NC Murphy & Cota Burlington..... 684-6450
OH Shamrock Sales Dayton..... 258-1227
OR Pacnor Mktg Sandy..... 868-8848
PA Stinson Assoc Wynnewood..... 896-7378
TX Peregrine SW Reps Houston..... 772-6765
WA Pacnor Mktg Lynnwood..... 771-6016
FR McBride Loudspeaker Source
Waterloo ON..... 884-3500

ARIES ELECTRONICS INC 62A
TRENTON AVE FRENCHTOWN
NJ 08825 TWX 510-235-3391..... 201-996-6841
F FOLMSBEE EMP 100 ENG 4 \$5,000-\$10,000K

AZ Adefk Glendale..... 602-931-9289
CA Universal Components Los Angeles..... 213-641-4255
CA Warren Assoc Santa Clara..... 408-988-7762
CO Mountain View Mktg Aurora..... 303-360-9641
CT Bell Controls Canton..... 203-693-8926
FL APM Tampa..... 813-886-2457
IL Carlson Elect Sales Co
Elk Grove Vlg..... 312-956-8240
IN J & W Sales Indpls..... 317-842-3740
IA Carlson Elect Sales Co
Cedar Rapids..... 317-877-6341
KS Delltron Co Gladstone Mo..... 816-436-6445
MD J A Dougherty Sales Lutherville..... 301-321-7890
MI OBE Inc West Bloomfield..... 313-332-4900
MO Delltron Co St Louis..... 314-869-4779
NJ Bell Controls Nashua..... 603-882-6984
NH D J Fisher Co Ho-Ho-Kus..... 201-652-0090
NM Varigan Assoc Albuquerque..... 505-344-5503
NY TAL Sales Fairport..... 716-425-1070
OH Augnat Assoc Medina..... 216-239-1621
OR Doran Sales Assoc Forest Grove..... 503-357-3333
PA Thos Jackson Assoc Harleysville..... 215-643-5560
SC CSR Electronics Columbia..... 803-781-7327

TX Rem-Air Components Dallas..... 214-234-1069
UT Wintronics SLC..... 801-483-1882
WA Doran Sales Assoc Redmond..... 206-885-1885
WI Carlson Elect Sales Co Milwaukee..... 414-476-2790
FR Tech-Rep St Laurent PQ..... 514-337-6046

DISTRIBUTORS
AL Component Dist Huntsville..... 205-883-7501
AZ Verein Corp Phoenix..... 602-482-0400
AZ Arizona Components Phoenix..... 602-269-5655
AZ Circuit Specialists Tempe..... 602-996-2878
AR Component Dist Little Rock..... 501-227-6278
CA Pyramid Elect Fullerton..... 213-691-0561
CA Tim-Co Sales Canoga Pk..... 213-992-5040
CA Pyramid Elect Santa Clara..... 408-727-9810
CO Industrial Elect Englewood..... 303-694-9444
CT Cobra Components Norwalk..... 203-847-6442
CT Pilgrim Danbury..... 203-792-7274
FL Component Distr Ft Lauderdale..... 305-971-4950
FL KSM Ft Lauderdale..... 305-971-5900
GA KSM Atlanta..... 404-458-2013
GA Component Distributors Norcross..... 404-441-3320
IL Classic Comps Supply Northbrook..... 312-272-9650
IN Meunier Elect Supply Indpls..... 317-635-3511
LA Ralph's Lafayette..... 318-234-4507
MD ASI Elect Baltimore..... 301-265-5107
MA QPL Elect Dist Burlington..... 617-229-2424
MA Cronin Needham..... 617-449-5000
MI TJW Electronics Grand Rapids..... 616-241-3645
MN Joel Co Hopkins..... 612-935-6202
NH Cronin Salem..... 603-898-4440
NH Glynn Elect Salem..... 603-893-8313
NM International Elect Corp Albuquerque..... 505-345-8120
NY Simcona Elect Rochester..... 716-328-3230
NC Component Dist Raleigh..... 919-834-9465
NC Powell Elect Cary..... 919-467-1212
OH REM Elect Warren..... 216-373-1300
OH Selectronics Middleburg Hts..... 216-243-9500
OH Wedemeyer Elect Supply Columbus..... 614-436-9600
OK Altair Co Tulsa..... 918-252-5781
OR Carlyle Portland..... 503-244
PA Shap Elect Phila..... 215-969-3300
PA Barno Radio McKeesport..... 412-751-5966
PA REM Erie..... 814-453-5626
TX Air Quip Sales Richardson..... 214-234-3285
TX Bell Comp Sales Arlington..... 817-461-5303
TX Connec/Tek Addison..... 214-733-4411
TX Quality Components Austin..... 512-835-0220
WA Carlye Wire & Cable Seattle..... 206-575-6750
WA Pyramid Kent..... 206-872-5800
WI Taylor Elec Co Mequon..... 414-241-4321
WI Classic New Berlin..... 414-786-5302

ARI INDUSTRIES INC 381 ARI CT
ADDISON IL 60101
TWX 910-651-3037..... 312-953-9100
D MACKENZIE EMP 100 ENG 10 \$2,500-\$5,000K
CA INSS Irvine..... 714-250-0320
CA Marchi Assoc Redwood City..... 415-364-3411
CT LJM Assoc Branford..... 203-488-4244
FL Industrial Systematics Eustis..... 904-357-5100
KY Schlemmer Assoc Cinc OH..... 513-522-8340
MD Advent Electric Bridgeport..... 215-277-6610
MA P G Aberick & Assoc Lawrence..... 617-794-1914
MI Clos-Vendal Assoc Dearborn Hgts..... 313-274-4959
NJ Applied Process West Orange..... 201-325-2511
NM Rustco Albuquerque..... 505-292-2741
OH Jerry Kilroy Corp Chagrin Falls..... 216-247-8997
TX Brice Co Bellaire..... 713-666-1788

ARISTO-CRAFT 200 FIFTH AVE
NEW YORK NY 10010 TWX 23-4865..... 212-924-4041
M YARNELL EMP 50 ENG 4
ARISTO GRID LAMP PRODUCTS INC
65 HARBOR RD BOX 769
PORT WASHINGTON NY 11050..... 516-944-3030
P HELLMAN EMP 24 ENG 2 \$500-\$1,000K
TX Bradenco Dallas..... 214-243-7261

ARKANA CAPITAL CORP DBA
WEBBER CABLE & ELCTNS
13043 E 166 ST CERRITOS
CA 90701..... 213-404-2602
L RIOS EMP 45 ENG 2 \$1,000-\$2,500K

ARK ELECTRONICS CORP 1325
INDUSTRIAL HWY SOUTHAMPTON
PA 18966..... 215-322-6510
C SCHALLER EMP 20 ENG 5 \$500-\$1,000K
ADV PG 87

FL Tech Rep Assoc 3251 Tech
Dr N St Petersburg..... 813-577-2779
WA Envirotech Inc 23221 171
St SE Monroe..... 206-794-6640
FR Giga-Tron Assoc 7 Slack
Rd Ottawa ON..... 613-225-4090

ARK-LES CORP 51 WATER ST
WATERTOWN MA 02172 TWX 244659..... 617-924-2330
EMP 1000 ENG 20
AR Industrial Sales Co Alexander..... 501-847-3388
CA Hartfield Kennan & Freytag LA..... 213-225-1318
CA Vic/Tal Sales Sunnyvale..... 408-738-3450
CT Representatives Corp Bethany..... 203-393-0024
FL Floritronics Winter Park..... 305-886-4818
GA Bryco Co Grayson..... 404-466-2997
IL Raines & Assoc Northbrook..... 312-498-0890
IN France Enterprises Greenfield..... 317-462-6098
MA Representatives Corp Wellesley..... 617-237-6476
MI Multimare Sales Novi..... 313-349-0260
MN D A Case Assoc Bloomington..... 612-888-8666
MO Weisler & Assoc Ellisville..... 314-394-4543
NJ F F Sylvester Assoc Springfield..... 201-376-3324
NY Charles L Avery Assoc Rye..... 914-967-7610
NC RG Sales Matthews..... 704-847-0049
OH Makin & Assoc Cincinnati..... 513-871-2424
PA Techparts Blue Bell..... 215-628-3200
TN Withers & Assoc Chattanooga..... 615-894-4697
TX Weisler & Associates Houston..... 713-467-1847

WA Henry Paulman Sales Medina..... 206-455-3311
WI Schram Assoc Waukesha..... 414-547-0600
FR Henry Daymond Sales Ltd
Mississauga ON..... 416-821-9171

DISTRIBUTORS
CA Zentron Chatsworth..... 818-709-0886
FL Arco Distr Davie..... 305-473-2550
IL LoDan Electronics Arlington Hts..... 312-398-5311
MA Emtel Electronics Norwood..... 617-769-9500
MA Emtel Electronics Norwood..... 617-769-9500
MN Connection Shoreview..... 612-481-0022
MO Lectronix St Charles..... 314-946-6424
NH Atsum Electronics Hampstead..... 603-329-5656

ARMCO 703 CURTIS ST MIDDLETOWN
OH 45043 TWX 810-451-2940..... 800-231-3771
EMP 40000 OVER \$10,000K
Sales Offices Located in principal cities of US

ARMEL ELECTRONICS INC 1601
75TH ST NORTH BERGEN NJ 07047
TWX 710 992 8842..... 201-869-4201
V PASQUALINO EMP 85 ENG 2

ARMOR BOX CO 27 COMMERCE ST
GLASTONBURY CT 06033..... 203-528-5213
P POSTER

ARMSTRONG BROS TOOL CO
5200 W ARMSTRONG CHICAGO
IL 60646 TWX 910 221-0957..... 312-763-3333
N BATTISTA EMP 500 ENG 5
CA Armstrong Bros Tool Co
Santa Fe Springs..... 213-949-9531
NJ Armstrong Bros Tool Co
Kenilworth..... 201-245-6900
FR Armstrong Bros Tool Co
Mississauga ON..... 416-270-4002

ARMSTRONG PRODUCTS CO ARGONNE
RD BOX 647 WARSAW IN 46580..... 219-267-3226
K GUNTER EMP 125 OVER \$10,000K
CA N Selawski Laguna Hills..... 714-951-1151
CA T Fegley Placentia..... 714-933-4885
CT R Anderson Coventry..... 203-742-9328
FL J Kelly Tampa..... 813-961-9615
GA L Jenkins Atlanta..... 404-498-2625
IN A Gakstatter Warsaw..... 219-491-5535
KS P Osborn Overland Pk..... 913-888-7272
MI W Neville Utica..... 313-731-1595
NJ P Morgano Mullica Hill..... 609-468-5721
OH S Koteles Chesterland..... 216-729-0518
SC K Uschebec Irmo..... 803-781-6102
TX R Morgan Dallas..... 214-340-1494
WI A S McLaughlin Brookfield..... 414-784-0188

ARMSTRONG WORLD INDUSTRIES INC
BOX 3001 LANCASTER PA 17604
TWX 717 560-4405..... 717-397-0611
L CHUBET EMP 16000 OVER \$10,000K

ARMTEC INDUSTRIES INC MANCHESTER
MUNICIPAL AIRPORT MANCHESTER
NH 03103 TWX 710-220-1747..... 603-669-0940
A WALTON EMP 332 ENG 35 OVER \$10,000K

AK C Hillhouse Soldotna..... 907-262-5463
CA A Biederman Glendale..... 818-246-8431
CA A Biederman Belmont..... 415-967-7212
CO Frontier Ind Cont Denver..... 303-534-5065
FL Rowe Eng Sales Maitland..... 305-834-2700
GA Quantum Measurements Symrna..... 404-351-3531
IL B & B Instruments Indpls IN..... 317-251-3811
IN B & B Instrument Hammond..... 219-932-4474
KS John Shurtliff Co Kansas City..... 913-721-2347
LA Allesco Baton Rouge..... 504-928-1571
MA Carl Luaders Co Needham..... 617-449-0342
NE Wilco Inc Omaha..... 402-572-9102
NJ Schramm Indus Montclair..... 609-494-1288
NY R L Stone Co Rochester..... 716-381-1151
OH Bradcor Elctns Euclid..... 216-261-0888
OK John Shurtliff Co Broken Arrow..... 918-258-3556
TX Allesco Houston..... 713-771-0115
UT Priz-Co Sandy..... 801-566-1163
WA Technical Control Inc Bellevue..... 206-454-7630

DISTRIBUTORS
CA Featherstone San Mateo..... 415-345-1617
MA Industrial Controls Chelmsford..... 617-256-3350
OR R & T Factors Portland..... 503-249-7276

ARNOLD ENGINEERING CO 300
WEST ST MARENGO IL 60152
TWX 910 642-2790..... 815-568-2000
EMP 900

CA Arnold Engrg Co Palo Alto..... 415-326-9302
CA Burnmagore Anaheim..... 714-535-8855
CO Arnold Engrg Co Boulder..... 303-443-8073
GA Arnold Engrg Co Stone Mountain..... 404-296-4748
IN Arnold Engrg Co Indpls..... 317-849-3936
MA Arnold Engr Co Lexington..... 617-862-2804
MI Arnold Engrg Co Jackson..... 517-784-5667
MN Holmes & Ladyky Bloomington..... 612-884-2125
NJ Ontec NJ Leonia..... 201-461-8151
NY Empire Tech Assoc Binghamton..... 607-772-0657
NC Arnold Engrg Co Raleigh..... 919-828-3277
TX Arnold Engr Co Dallas..... 214-821-4654
WI F W Ladyky Assoc Milwaukee..... 414-351-2112

ARNOLD MAGNETICS CORP 11520
JEFFERSON BLVD CULVER CITY
CA 90230 TWX 910-343-6468..... 213-390-3533
J ZILLMAN EMP 110 ENG 14 \$5,000-\$10,000K
CA Electro Venture Santa Clara..... 408-727-1555
MD Youth Assoc Silver Spring..... 301-598-5744
NY Ascor Elctns New Rochelle..... 914-235-8838
OH Jim Finnegan & Co Cleveland..... 216-238-5901
PA Electro-Rep Lancaster..... 717-299-5877
TX Spectra Sales Richardson..... 214-234-3601

ARO CORP ONE ARO CTR BRYAN
OH 43506 TWX 810-443-2994 419-636-4242
EMP 857 ENG 63 OVER \$10,000K

**AROMAT CORP 250 SHEFFIELD ST
MOUNTAINSIDE NJ 07092**
TWX 710-997-9536 201-232-4260
T ECCLESTON EMP 137 ENG 4
ADV PGS 391,454

Beacon Elec Assoc Huntsville 205-881-5031
System Sales of AZ Tempe 602-829-9338
Beacon Elect Assoc Little Rock 501-224-5449
Elco Santa Garden Grove 213-533-1255
Westrep Santa Clara 408-988-8833
Omega Ltd Littleton 303-798-7040
United Components Madison 203-245-4810
United Components Gilman 203-889-4050
EIR Maitland 305-660-9600
Beacon Elec Assoc Atlanta 404-256-9640
Carlson Elctn Sls Elk Grove Vlg 312-956-8240
J & W Sales Co Indpls 317-842-3740
Carlson Elctn Sls Cedar Rapids 319-377-6341
Rush & West Assoc Olathe 313-764-2700
Imagtron Sales Pikesville 301-521-2020
United Components Bourne 617-226-0556
R P Urban & Assoc Grand Rapids 616-245-0511
R P Urban & Assoc Redford 313-535-2355
Northport Eng Inc Bloomington 612-854-5556
Rush & West Assoc Ballwin 314-394-7271
Marinello Tech Sales West 201-228-4418

Caldwell 505-881-8877
SSA Inc of New Mex Albuquerque 716-546-4766
Rochester Components W Henretta 919-787-0330
Beacon Elect Assoc Raleigh 216-321-3328
J R Thornberry Co Cleveland 412-531-2002
Cort & Newman Co Pittsburgh 713-961-1262
C R Colvin & Assoc Houston 512-474-8698
C R Colvin & Assoc Austin 214-783-8831
Lewis-Johnson Inc Dallas 206-883-4999
Sales & Engineering Bellevue 206-573-5161
Sales & Engineering Vancouver 414-476-2790
Carlson Elctn Sls Milwaukee 604-273-4963
Deskin Sales Corp Richmond 514-337-6064
Tech-Rep Elec Ltd St Laurent PQ 613-225-9186
Tech-Rep Elec Ltd Nepean 416-890-2903
Tech-Rep Elec Ltd Mississauga ON

DISTRIBUTORS

Contact Elec Huntsville 205-881-9321
Bell Ind Tempe 602-966-7800
Acacia Sales Phoenix 602-882-9054
Patane Avionics Van Nuys 408-734-8570
Bell Ind Sunnyvale 408-496-6151
Patane Electronics Santa Clara 213-998-3111
Master Dist Santa Monica 213-452-1229
Acacia Sales Sunnyvale 408-745-7200
Norstan Santa Ana 213-924-7651
Industrial Elect Englewood 303-694-9444
Acacia Sales Lakewood 303-232-2882
SCR Elec Nauvaukuck 203-729-8274
Cronin Electronics Wallingford 203-265-3134
Dielco Ft Lauderdale 305-973-8700
R M Elect Elk Grove 312-364-6622
Magnuson Elect Inc Mt Prospect 312-956-0700
R M Elect Indpls 317-291-7110
Magnuson Elect Inc Indpls 317-247-5108
Ragon Electronics Cedar Rapids 816-254-3410
Impact Sales Co Canton 617-821-1500
Glynn Electronics Middleboro 617-947-4262
Cronin Electronics Needham 617-449-5000
R M Elect Grand Rapids 616-531-9300
Joel Co Mpls 612-935-6202
Finnel Electronics St Charles 314-946-6201
Relay Spec Fairlawn 201-797-3313
Mid-Atlantic Elec Corp Bellmawr 609-931-5303
Mars Electronics Plainfield 201-757-4332
Masline Elct Rochester 716-546-5373
Summit Dist Buffalo 716-884-3450
QAR Ind Elec Sls Mt Vernon 914-699-2224
Peerless Radio Lynbrook 516-593-2121
Jacco Elect Hauppauge 516-273-5500
Villarreal Elect Millbrook 914-677-3447
Rome Elec Rome 315-337-5400
Dixie Elec Winston-Salem 919-724-5961
Dixie Elec Mktg Charlotte 704-377-5413
Dixie Elec Hickory 704-328-2646
Electronic Mktg Corp Charlotte 704-394-6195
EMC Corp Columbus 614-299-4161
EMC Corp Highland Hts 216-442-3441
EMC Corp Kettering 513-439-4711
Norvell Electronics Tulsa 918-254-8606
P & R Industries Beaverton 503-641-9525
Acacia Sales Beaverton 503-646-3377
Advacom Inc McKean 814-476-7774
Pioneer/Del Valley Horsham 215-674-4000
Peak Elect Wayne 215-293-9000
Advacom Inc Harrisburg 717-545-5674
Edwards Elect Pawtucket 401-725-7400
Dixie Elect Columbia 803-779-5332
Dixie Elect Greenville 803-297-1430
Dixie Elect Charleston 803-554-7515
Dixie Elect Knoxville 615-938-4131
Dixie Elect Gray 615-477-3838
Computer Comps Dallas 214-239-0271

TX Southwest Elec Austin 512-837-8971
TX Norvell Electronics Austin 512-458-8106
TX Norvell Electronics Houston 713-777-1666
TX Norvell Electronics Dallas 214-233-0020
TX Southwest Elec Richardson 214-234-3050
TX Southwest Elec Stafford 713-491-4900
VA Mextronics Corp Roanoke 414-241-4321
WI Taylor Elec Mequon 514-337-6046
FR Tech Rep Elec St Laurent PQ 604-273-4963
FR Desk Sales Corp Richmond 604-273-4963
ARRA INC 15 HAROLD CT BAY SHORE
NY 11706 TWX 510 227-6231 516-231-8400
M GERACI EMP 85 ENG 4
AL Redstone Mil Svc Huntsville 205-837-6136
AZ Blackhart Assoc Chandler 602-831-2566
CA MARK V Assoc Mt View 415-964-6275
CA McDougall-McLaughlin LA 305-678-2141
FL Microwave Marketing Winter PK 312-253-3578
IL Cain-Farlow Mt Prospect 312-365-8071
IA Palatine Sales Cedar Rapids 913-831-0555
KS Palatine Sales Mission 301-465-1336
MD Des Electronics Ellicott City 417-452-7211
MA BBC Chelmsford 414-839-0800
MO Palatine Sales Hazelwood 315-736-7821
NY B D Hummel Co Utica 516-468-9798
NY EAC Assoc Great Neck 919-876-0282
NC Barker Assoc Raleigh 312-253-3578
OH Cain & Co Lancaster 215-358-8550
PA SWR Assoc Corp Newtown Square 214-681-1376
TX Tesco Garland 206-285-2525
WA Datacom Assoc Seattle

ARRAY ANALYSIS INC 145
LANGMUIR LAB, BROWN RD ITHACA
NY 14850 607-257-6800
R REMINICK EMP 6 ENG 5 OVER \$10,000K

ARROW FASTENER CO INC 271
MAYHILL ST SADDLE BROOK
NJ 07662 201-843-6900
B KNISPTEL EMP 600 ENG 4

ARSTAN PRODUCTS INTL LTD
99 JERICHO TPK JERICHO
NY 11753 TWX 221519 516-333-8100
S SHAPIRO EMP 240 ENG 6

DISTRIBUTORS

PA Century Electronics Norristown 215-631-5400
ARTEL COMMUNICATIONS CORP
93 GRAND ST WORCESTER
MA 01610 617-752-5690
E M MCCARTHY EMP 80 ENG 20

ARTISAN ELECTRONICS CORP
5 EASTMANS RD PARSIPPANY
NJ 07054 201-887-7100
G NORTON EMP 200 ENG 15 \$5,000-\$10,000K
CA Bender Systems San Rafael 415-472-7033
FL Machine Controls Altamonte
Springs 305-788-6606
IL Wasson-Gallagher Westchester 312-344-0690
MA Chas E Godfrey Co Reading 617-944-2230
MS Doby Assoc Jackson 601-981-1138
NY Schmitt Industrial West
Hempstead 516-486-3510
NY Apex Assoc Rochester 716-254-6050
NC Sales Engrg Inc Raleigh 919-878-4400
OH Rockford Controls Euclid 216-731-5250
TX Lynn Elliott Co Missouri City 713-499-1571
FR Elcom GBM Pte Claire PQ 514-697-4556

DISTRIBUTORS

CA Eemco San Rafael 415-479-0201
DE Electronics Exchange New Castle 302-322-5401
IL Newark Electronics Chicago 312-638-4411
NJ Relay Specialties Fair Lawn 800-526-5376
NY Simcona Elec Rochester 716-328-3230
NY Ind Prods Bronx 212-324-1190
OH Rockford Controls Euclid 216-731-5250
TX Allied Elect Fort Worth 817-336-5401

ARTOS ENGINEERING CO 15600
W LINCOLN AVE NEW BERLIN
WI 53151 TWX 269549 414-782-3300
P WOBORIL EMP 350 ENG 8 OVER \$10,000K
CA Artos Eng Co Torrance 213-683-4885
CO Warner Andrews Littleton 303-797-1507
CT Artos Eng Co Stamford 203-327-6200
GA Artos Eng Co Roswell 404-435-5888
IL Artos Eng Co Des Plaines 312-876-0193
TX Artos Eng Co Garland 214-487-7633
TX PAC Richardson 214-231-3979
FR Barmac Supplies Ltd Etobicoke ON 416-626-7171

ARTRONIC INSTRUMENT CO INC
9 DIVISION ST SIDNEY
NY 13838 607-563-8444
H MONTREN

ARTRONICS CORP 3 ELECTRONIC AVE
DANVERS MA 01923 617-777-2880
L SMOLIN EMP 20 ENG 5 \$1,000-\$2,500K

ART WIRE/DODUCO 181 E HALSEY RD
PARSIPPANY NJ 07054
TWX 13-6455 201-428-4880
L COBO EMP 100 ENG 5
AZ T Stens Phoenix 602-996-9077
MN Dale Merrick Co St Paul 612-484-5125
NY Eugene Foley Huntington 516-271-2362
RI K W Harris Barrington 401-245-8640

ARVEY CORP 3500 N KIMBALL AVE
CHICAGO IL 60618 312-463-1400
M MILLER EMP 150 ENG 2
CA Arvey Corp El Toro 714-770-5900
PA Arvey Corp Morrisville 215-736-2291

ARVIN/DIAMOND BOX 200 LANCASTER
OH 43130 TWX 245-344 614-756-9222
P WOLFE EMP 162 ENG 18 \$5,000-\$10,000K

AL Spader & Assoc Birmingham 205-879-1366
AK United Sales Assoc Sitka 907-747-8093
AZ Frank Gorman Assoc Phoenix 602-956-9820
CA Randolph Indus El Monte 213-283-7901
CA Priz Co Palo Alto 415-326-9333
FL Truex Assoc Orlando 305-859-2160
GA Spader & Assoc Decatur 404-296-3024
GA Brisky Assoc Crestwood 312-597-7870
IN Lathrop-Trotter Co Indpls 317-542-0535
KS Kansas City Equip Co Shawnee 913-341-5000

LA Boiler Equip & Controls 504-293-4421
Baton Rouge 504-557-9896
MD Schindell Assoc Jarrettsville 301-557-9896
MA May Tech Assoc Marlboro 617-480-0191
MI Engel-Klaes Co Southfield 313-355-1610
MI Arjay Sales Bloomington 612-854-4972
MO Control Tech Sales St Louis 214-994-0990
NJ Friedman Assoc Union 201-964-6200
NJ Frank Gorman Assoc Albuquerque 505-247-1596
NY Wm Stamp Co Williamsburg 716-631-3420
NY Brown & Morrison Co Charlotte 704-554-8570
OH Centrl Dyne Equip Cleveland 216-221-4140
OR United Sales Assoc Tigard 503-620-6960
PA Shindell Assoc Worcester 215-584-6335
TN Boiler Equip & Controls Memphis 901-377-0329
TN J R Woodruff Co Houston 713-467-8463
UT Global Tech Inc SLC 801-972-1197
VA Berkness Con & Equip Richmond 804-359-5703
WA United Sales Assoc Bellevue 206-454-6412
WI Brisky Assoc Brookfield 414-782-7333
FR Diamond Canapower Burlington Ont 416-335-0321
Phoenix Ind Sales Rio Piedras PR 809-720-0181

ASHEVILLE-SCHOONMAKER MICA CO
BOX 318 NEWPORT NEWS
VA 23607 TWX 82-3402 804-244-7311
EMP 120 ENG 2 \$1,000-\$2,500K
IL Asheville Schoonmaker Crestwood 312-385-2666

ASHLAND CHEMICAL CO BOX 2219
COLUMBUS OH 43216 614-889-3774
G STEIN EMP 106 ENG 10
CA Elchem Saratoga 408-255-3034
CA Elchem Tarzana 213-881-5350
CA Ashland Chemical Co Newark 415-792-5077
CO Elchem Boulder 303-448-3803
PA Ashland Chemical Co Easton 215-258-9135
TX Ashland Chemical Co Dallas 214-371-0794
FR Ashland Chem Co Mississauga ON 416-651-2822

DISTRIBUTORS

CT Brand Nu Labs Meriden 203-235-7989
MA Doe & Ingalls Medford 617-391-0090
MA Jeffrey Chem Wilmington 617-657-7560
MA Service Chemical N Andover 617-685-2121
NY Kem Chemical Mt Vernon 914-699-3110
OR American Scien & Chemical
Portland 503-283-4155

ASHLAND ELECTRIC PRODUCTS INC
80-39TH ST BROOKLYN NY 11232 718-965-0770
J CONLON EMP 125 ENG 6 \$1,000-\$2,500K

ASI 809 CHARLES ST PROVIDENCE
RI 02904 401-331-9154
D WESTCOTT EMP 15 ENG 3 \$1,000-\$2,500K

ASMANN COMPONENTS/EBM INDS
525 NEW BRITAIN AVE
UNIONVILLE CT 06085
TWX 710-423-8723 203-674-1515
J BUERGER EMP 500 ENG 20

AL Raycom Inc Huntsville 205-859-2017
AZ Harris & Croy Scottsdale 602-951-9121
CA Abbott Engrg Redwood City 415-369-1944
CO Simpson Assoc Littleton 303-794-8381
CT Selmark Associates Clinton 303-753-9088
FL Raycom Inc Melbourne 305-259-7988
GA Raycom Inc Marietta 404-952-6061
HI Beta Tech Sales Glendale Hts 312-790-9886
IN Technical Reps Columbus 812-376-9226
KS Web Assoc Overland Park 913-381-7986
MD Delta III Assoc Columbia 301-730-4700
MA Selmark Assoc Mills 617-376-2914
MI Burcaw Co Warren 313-573-4605
MN Arkco Sales St Paul 612-777-7454
MO Web Assoc Florissant 314-921-5720
NH Selmark Hopkinton 603-746-4507

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19 Wilbur Street, Lynbrook, L.I., N.Y. 11563
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In New Jersey (201) 592-0351, 0358, 0364
Cable: PEERADIO TWX: 510-225-8422
Call Toll Free 800-645-2268

Peerless Radio Corporation — Florida
3161 S.W. 14th Ct., Pompano Beach, Florida 33069
(305) 973-4141
TWX: 510-956-3118
Call Toll Free 800-327-4993 • In Florida 800-432-8899

NY	Lorac Sales Hicksville	516-681-8746
NC	Raycom Inc Raleigh	919-847-8276
OH	KT/Depco Cleveland	216-442-6200
OK	Bonsler-Philhower Sales Tulsa	918-744-9964
OR	Earl Brown Co Portland	503-245-2283
PA	Ruddell-Merrifield Harrison City	412-327-0828
TX	Bonsler-Philhower Sales Richardson	214-234-8438
WI	Beta Technology Sales Mukwonago	414-363-5086
FR	Selmark Bayamon PR	809-725-8576

DISTRIBUTORS

AZ	Southwest Sales Tucson	602-628-1613
CA	Target Elect Sunnyvale	408-734-5611
CA	Added Value Elect Tustin	714-730-5848
CT	Pilgrim Elect Danbury	203-792-7274
FL	Eurick Corp Melbourne	305-254-8718
GA	Frankland Fayetteville	404-464-4026
IL	Nep Elect Chicago	312-625-8400
IN	Advent Elect Indpls.	317-872-4910
MA	J V Elect Wilmington	617-273-4300
MI	T & W Elect Grand Rapids	616-241-3645
NJ	Freedom Elect Atlantic Highlands	201-872-2300
NY	Goldcrest Elect Buffalo	716-885-5878
NY	Domino Components Central Islip	516-582-3050
PA	Advacom Harrisburg	717-545-5674
RI	Carl-Greg Comps Warwick	401-884-5100
WI	NEP Elect New Berlin	414-785-9100
FR	Harvest Electronics Caguas PR	809-743-3552

ASM LITHOGRAPHY INC 2315

W FAIRMONT DR TEMPE AZ 85282	602-438-0559
CA ASM San Jose	408-946-4433
TX ASM Austin	512-331-9418

ASPEN RIBBONS INC 555 ASPEN

RIDGE DR LAFAYETTE CO 80026	
TXW 45-0055	303-666-5750
P WILLIAMS EMP 250 ENG 4 OVER \$10,000K	
CO Aspen Ribbons	800-525-0646

ASSEMBLYONICS INC BOX 43

BRENTWOOD NY 11717	516-231-4440
C CIRILLI EMP 6 ENG 2 \$100-\$250K	

ASSOCIATES ELECTRONICS & MFG CORP

546 VALLEY RD UPPER MONTCLAIR NJ 07043	201-783-7800
R FOX EMP 69 ENG 8 \$1,000-\$2,500K	

ASSOCIATED EL ELECTRONICS/3M

72 CORWIN DR BOX 938 PAINESVILLE OH 44077	
TXW 810-425-2256	216-354-0925
G PISERCHIA	

CA EPD/3M Foster City

CA EPD/3M Los Angeles	213-726-6423
MA EPD/3M Needham Hts	617-449-0300
MN EPD/3M Eagan	612-736-9378
NJ EPD/3M Pennsauken	609-662-7077
TX EPD/3M Dallas	214-324-8100

ASSOCIATED ENVIRONMENTAL SYSTEMS

10 INDUSTRIAL WAY AMESBURY MA 01913 TXW 710-347-0590	617-388-7241
L LUIZZO EMP 350 ENG 10 \$5,000-\$10,000K	

ASSOCIATED RESEARCH INC

8221 N KIMBALL AVE SKOKIE IL 60076 TXW 28-3511	312-647-7850
J GUERRINO EMP 100 ENG 6 \$5,000-\$10,000K	

AZ CPS Assoc

CA Mollard Marketing	415-961-0458
CA Brooks-Moore & Assoc	714-544-8900
CO Technical Marketing Mfg	303-232-1516
DE Electrical Equipment Co	302-478-9455
FL Datatrep	305-843-5224
GA Tanner & Assoc	404-952-7773
IL R L Weisheimer & Assoc	618-281-4148
LA Griffith Herron Co	504-626-8516
MA Digital & Analog Sales Co	617-363-5420
MN Minnkota Electrical Sales	612-871-7838
NY V J Brown Co	716-839-4232
NY Optimum Sales Co	516-589-4664
NC W R Daniel & Assoc	704-376-8603
OH Alexander Equipment	513-248-0901
PA Gateway Equipment Co	412-795-1315
TN E-P & Assoc	615-966-6131
TX E V Smith Sales Co	713-649-5756
WA Winberg Eng Sales Co	206-523-3370
WI Carl Stracka & Assoc	414-734-7847

ASSOCIATED SALES & BAG CO

160 S 2 ST MILWAUKEE WI 53204	414-272-2380
H LEMPK EMP 88 ENG 3 \$5,000-\$10,000K	

ASSOCIATED SPECIALTIES CO

1751 MAIN ST OREFIELD PA 18069	215-395-9172
V LAUDENSLAGER	

ASSOCIATE GENERAL LABS INC

8934 W OGDEN AVE BROOKFIELD IL 60513	312-485-1135
A SCHROEDER EMP 11 ENG 2 \$250-\$500K	

ASTATIC CORP BOX 120 CONNEAUT

OH 44030 TXW 980712	216-593-1111
R EBERSOLE EMP 200	

AZ Bidwell Sales Assoc Gardena

CA William J Purdy Burlingame	415-347-7701
CO Wm J Purdy Denver	303-777-1411
GA Hollingsworth & Still Inc Norcross	404-447-1700
IL Ken Levy Assoc Chicago	312-763-5000
IN Sukup & Cox Indpls	317-253-5501
MA Anderson Sales Assoc Braintree	617-848-9194
MN HMR Mnpls	612-882-2122
MS Welch & Doby Jackson	601-932-5534

MO KSW Inc Leawood	913-642-1191
NJ Stan Axelrod Assoc Englewood	201-871-0600
NY Jack Mesnick Sales Liverpool	315-622-3211
OH Electronic Salesmasters Beachwood	216-831-9555
PA Lowery Assoc Broomall	215-356-5300
TX McKinney Sales Co Dallas	214-631-9450
FR Canadian Astatic Ltd Scarborough ON	416-293-2222

ASTEC (USA) INC 2880 SAN

TOMAS EXPWY SANTA CLARA CA 95051 TXW 475018	408-748-1200
J GORDON EMP 100 ENG 20 OVER \$10,000K	

AL Brandel-Stephens Huntsville	205-883-0445
AZ Compass Mktg & Sales Phoenix	602-996-0635
CA I Squared Inc Santa Clara	408-988-3400
CA SC Cubed Tustin	714-731-9206
CA CK Assoc San Diego	619-279-0420
CO Lange Sales Littleton	303-795-3600
FL Brandel-Stephens Orlando	305-425-3202
MA Mill/Bern Assoc Burlington	617-273-1313
MI Rathburg Assoc Detroit	313-882-1717
MN Electronic Sales Agency Bloomington	612-884-8291

NY Crane & Egert Corp Elmont	516-872-0800
OH Bear Marketing Richfield	216-659-3131
PA Omega Electr Sales Huntingdon Valley	215-947-4135
TX West Assoc Dallas	214-248-7060
WA Tri-Mark Glen Burnie MD	301-761-6000
WA Components West Inc Liberty Lake	509-255-6224
FR Cantec Reps Ottawa ON	613-725-3704

DISTRIBUTORS

AL Hall-Mark Huntsville	205-837-8700
AZ Wyle Labs Phoenix	602-249-2232
CA Wyle Labs Santa Clara	408-727-2500
CA Wyle Labs El Segundo	213-322-8100
CA Wyle Labs San Diego	714-565-9171
CA Wyle Labs Irvine	714-863-9271
CA Hall-Mark San Jose	408-946-0900
CO Wyle Labs Thornton	303-457-9953
FL Hall-Mark Orlando	305-855-4020
IL Hall-Mark Woodlake	312-860-3800
KS Hall-Mark Lenexa	913-888-4747
MA Lionex Wilmington	617-657-5170
NJ Hall-Mark Cherry Hill	609-424-7300
NY Lionex Hauppauge	516-273-1660
OR Wyle Labs Hillsboro	503-640-6000
TX Quality Components Austin	512-835-0220
UT Wyle Labs Salt Lake City	801-974-9953
WA Wyle Labs Bellevue	206-453-8300

ASTRAEA COMPUTER CORP 846

DEL REY AVE SUNNYVALE CA 94086	408-773-8500
J DICKEY	

ASTRIO CORP 48621 WARM

SPRINGS BLVD FREMONT CA 94539	415-659-9200
E KLEIN EMP 100 ENG 4 \$1,000-\$2,500K	

ASTROCOM CORP 120 W PLATO BLVD

ST PAUL MN 55107 TXW 297421	612-227-8651
K JOHNSON EMP 150 ENG 15 \$5,000-\$10,000K	

AZ Qaltech Inc Phoenix

CA Data Commun & Sys Group Santa Ana	714-547-8470
FL W A Brown Orlando	305-425-5505
KS ETC Computer Products Leawood	913-381-1090
MD Powell-Pendergraph Gaithersburg	301-921-4200
MA ACP Products Arlington	617-641-3525
MN Applied Communications Navarre	612-471-8558
NJ Instrumentation Sales Ridgewood	201-445-5210
NM Qaltech Albuquerque	505-243-5605
NY Annetec Assoc Herkimer	315-866-2123
NY Krasacro Assoc Great Neck	516-487-0696
OH Data Processing Sciences Cincinnati	513-961-0776
PA Powell-Pendergraph Willow Grove	215-657-0330
SC Technical Assoc Spartanburg	803-579-2904
TX Data Aids Assoc Spring	713-353-7728
UT Robco Data Sys Mktg Box 533 Bountiful	801-292-6666
VA Powell-Pendergraph Richmond	804-270-1400
WA DPM Inc Bellevue	206-747-3309

DISTRIBUTORS

CA Interlink System Sunnyvale	408-720-8838
CT Glasgal Communications Westport	203-866-4293
CT T'Comm Enterprises Bethel	203-792-9025
IL C A Business Partner Bloomington	312-351-2753
IL Data Accessories Hinsdale	312-850-7488
MA Marketechs Wellesley	617-237-4461
MA Arlington Commun Prods Arlington	617-641-2770
MO Computime Inc St Louis	314-991-2991
NJ Glasgal Communications Northvale	201-768-8082
NY Western New York Computing Penfield	716-381-4120
NY T'Comm Enterprises New York	212-912-0045
OH Data Processing Sciences	513-961-0776
WI Delta Communications Brookfield	414-784-3663
FR Louis Albert Assoc Ottawa ON	613-748-9751

ASTRODYNE INC 35 EXECUTIVE DR

HUDSON NH 03051	603-880-8600
M J ASHLEY EMP 35 ENG 1 \$1,000-\$2,500K	

CA Wm Parks Assoc Fremont	415-490-2011
IL Saffro & Assoc Lincolnwood	312-677-9720
MA Harman Assoc Brookline	617-232-6687
MI Forand Sales Birmingham	313-644-0087
NJ Sylvester Assoc Springfield	201-376-3234
NY Feikert Assoc Fair Haven	315-947-5994
NY Sylvester Assoc Coram	516-473-2018
NC G P O'Malley & Assoc Ltd Raleigh	919-848-9805
OH Scott Elctns Cleveland	216-473-5050
OR COMTEC W Lynn	503-227-2111
PA McDermott Assoc Glenolden	215-353-9503

WA Comtec Bellevue	206-453-1118
WI Saffro & Assoc Lake Mills	414-648-2600
FR Minthorne Intl Freeport NY	516-546-4700

DISTRIBUTORS

CA Dyna Svc L A	213-268-8530
MO Van Sickle Radio St Louis	314-241-2770
OH Stotts Friedman Co Dayton	513-224-1111
TX Lenert Co Houston	713-225-1460

ASTRO INDUSTRIES INC 606

N OLIVE ST SANTA BARBARA CA 93101 TXW 658441	805-963-3460
J MCCAULEY EMP 50 ENG 5 \$2,500-\$5,000K	

ASTROLAB INC 4 POWDER HORN DR

WARREN NJ 07060	
TXW 710-991-9713	201-560-3860
S TOMA EMP 45 ENG 6 \$2,500-\$5,000K	

ASTRO-MED INC ASTRO-MED IND PK

WEST WARWICK RI 02893	
TXW 710-382-6409	401-828-4000
J CLARK EMP 175 ENG 15 OVER \$10,000K	
ADV PGS 368,383	

CA Astro-Med Inc Burbank

IL Astro-Med Inc Arlington Hts	312-398-3030
FR Digitec Australia Pty Ltd Oakleigh, Victoria	568-6920
FR Tomek Electronics GESMBH Wein Austria	570630
FR AEMI SA Brussels Belgium	5234070
FR Northcommerce Glostrup Denmark	333400
FR Equipment Scientifiques Garches France	741909
FR Hindco Corp Bombay India	373540
FR Bruno Intl Corp Tel Aviv Israel	224620
FR Soc An Na S A S Milano Italy	011-39-2-49037
FR Anru B V Rotterdam Netherlands	331070
FR Truvelo Mrs Pty Ltd Verwoerdburg Rep S Afr	805208
FR Emeco S A, Madrid Spain	637-28-60
FR Kingtek Scientific Co Ltd Taipei Taiwan	597-4190
FR Russet Instruments Ltd Reading Berks UK	3486814
FR Auriema AB Solna Sweden	730516

ASTRONAUTICS CORP OF AMERICA

BOX 523 MILWAUKEE WI 53201	
TXW 910-262-3153	414-447-8200
H BOURE EMP 1500 ENG 425 OVER \$10,000K	

CA V Mitskus Whittier

CA A Zelazo Torrance	213-698-7114
FL W Greg Palm Harbor	813-785-5754
NY A Barbaccia New York	516-667-1690
NY N Paige New York	212-962-0802
OH W Cahoon Dayton	513-433-0553
OK Payne Enterprises Midwest City	405-733-3533
VA B Mundale Arlington	703-820-6720

ASTRON CORP 2852 WALNUT NE

TUSTIN CA 92680	
TXW 95-3044220	714-832-7770
W POCHIROWSKI EMP 29 \$2,500-\$5,000K	

DISTRIBUTORS

CA Henry Radio Los Angeles	213-820-1235
CA Ora Electronics Chatsworth	213-701-5840
CA Cartwright Communications Sun Valley	213-768-7740
CO Electro Tek Sales Aurora	303-343-8930
CA NBC Marketing Marietta	404-424-9090
IL Primus Electronics Joliet	815-436-9894
IL Communications Assoc Joliet	815-744-6444
MD Tessco Inc Cockeysville	301-252-0860
NJ Meridian Communications Clifton	201-473-1620
OH Cartwright Communications Cincinnati	513-489-1750
TX M Hutton-Co Dallas	214-484-0580

ASTROSYSTEMS INC 6 NEVADA DR

LAKE SUCCESS NY 11042	
TXW 510-223-0411	516-328-1600
H LAZAR EMP 150 ENG 25 OVER \$10,000K	

AL Kemp Instr Huntsville	205-837-4300
CA Bes-Co Sales Dublin	415-865-5400
CA Foxco Equip Cerritos	714-739-4180
CO Dynatech Englewood	303-773-2830
DE Broge-Matereas Inc Smyrna	302-653-5000
FL Reynolds & Assoc Melbourne	305-259-7000
GA Kemp Instruments Atlanta	404-452-8050
MD Multi Measurements Bethesda	301-889-0470
MA Control Engrg Assoc Westboro	617-366-0700
MI Polytek Assoc Ashland	617-881-4740
MI Static Controls Walled Lake	313-363-4500
MO Dynamic Sales Urbana IL	217-344-3550
NY Peter Dewey Inc Cazenovia	315-655-8600
NY D & O Engineering Cazenovia	315-655-8600
NY D & O Engineering Youngstown	716-745-3910
NC Jake Rudisill Assoc Charlotte	704-377-6900
OH Instrumentation Sys Dayton	513-294-2830
OR Pacific N W Controls Bothell	206-821-0440
PA Instrumentation Sys Pittsburgh	412-243-1111
TX Data Marketing Assoc Dallas	214-661-0300
FR Arthur Rosenblum Sales Willowden	416-224-1170

A SUBS US BOX CRAFTS INC

126 LOMBARDY ST BROOKLYN NY 11222	718-387-1510
T KOSSOFF EMP 100 ENG 3	

A-SYSTEMS INC 1500 AVON ST

CHARLOTTESVILLE VA 22901	804-295-7200
F ARTRIP	

ATACS CORP 501 S 3 ST OXFORD
PA 19363 TWX 510-663-8467..... 215-932-3000
R KELLY EMP 150 ENG 4 OVER \$10,000K

ATE ASSOCIATES INC 5707
CORSA AVE WESTLAKE VILLAGE
CA 91362..... 818-991-4001
J DELEONARDIS EMP 150 ENG 125 \$5,
000-\$10,000K
CA ATE Assoc Alameda..... 415-865-3463
MO ATE Assoc Earth City..... 314-739-7017
TX ATE Assoc Dallas..... 214-869-3463

ATKINS TECHNICAL INC 3401
SW 40 BLVD GAINESVILLE
FL 32608 TWX 51-4736..... 904-378-5555
L BENLOLO EMP 30 ENG 7

ATKOMATIC VALVE CO INC
141 S SHERMAN DR INDIANAPOLIS
IN 46201 TWX 427-345..... 317-357-8421
R SPEAR EMP 44 ENG 4
AL Control Specialists Birmingham..... 205-991-7274
AK Alaska Instruments Anchorage..... 907-561-2211
AZ Southwest Controls Scottsdale..... 602-945-1717
CA Brenner-Fiedler & Assoc Cerritos..... 213-404-2721
CA Denco-Controls San Jose..... 408-288-5787
CO Fluid Technology Inc Lakewood..... 303-233-7400
CT Pond Technical Sales Hamden..... 203-281-0005
FL Control Center Inc Orlando..... 305-896-6831
GA Rittelmeyer & Co Atlanta..... 404-355-8200
IL Miller Eng Specialties.....
Morton Grove..... 312-965-6161
IA Skarda Equip Co Cedar Rapids..... 319-393-3003
KY Parker & Foster Inc Overland Pk..... 913-381-9330
KS Richard Equip Co Louisville..... 502-895-8060
LA Del Rio Inc Baton Rouge..... 504-927-9167
MA Pond Tech Sales Waltham..... 617-850-5535
MI L W Jeffries Co Warren..... 313-758-7790
MN A-Tu-Zee Inc St Paul..... 612-646-6383
MO Tecpo Industrial Sales St Louis..... 314-741-1800
NE Skarda Equip Co Omaha..... 402-422-0430
NY Gear Equip Co Rochelle Park NJ..... 201-843-1144
NY J R Manier Syracuse..... 315-446-9533
NC Mec-Tric Control Co Charlotte..... 704-376-8555
OH Commercial Elec Prods Corp.....
Cleveland..... 216-241-2886
OK Southwestern Controls Tulsa..... 918-663-6777
PA White/Whiddett Co Edgemont..... 215-353-6343
TN Power Equip Co Memphis..... 901-327-8261
TX Southwestern Controls Houston..... 713-666-2801
VA Virginia-Carolina Controls.....
Richmond..... 804-320-6500
WA Greaves Co Inc Seattle..... 206-284-0660
WI D E Riley Corp New Berlin..... 414-786-1230
FR Cowper Co Ltd Lachine PQ..... 514-637-6746

ATLANTA SIGNAL PROCESSORS INC
770 SPRING ST ATLANTA
GA 30308..... 404-892-7265
J HAEGER EMP 5 ENG 4
ATLANTIC COAST ELECTRONICS
DIV TYCO LABS 2681 N 4TH AVE
POMPANO BEACH FL 33064..... 305-943-7300
E JOHNSON EMP 270 ENG 6 OVER \$10,000K
FL APM 5700 Mem Pkwy Tampa.....
MA Newby & Co 218 Warren Av Plymouth
NJ Varrelman Gorman Box 206 Livingston
NC B Funderburk 5933 Ponderosa Dr Raleigh
PA Campbell Assoc 530 Street Rd Southampton

ATLANTIC OPTICAL MOULDING CO
87 ELLIS BOX 309 DUDLEY
MA 01570..... 617-943-1746
J KRYSIAK EMP 5 ENG 1 UP TO \$100K

ATLANTIC RESEARCH CORP
5390 CHEROKEE AVE ALEXANDRIA
VA 22312 TWX 710-832-9828..... 703-642-4000
D EBERT EMP 2800 ENG 301 OVER \$10,000K
AK REP-SAC Corp Anchorage..... 907-276-3282
AZ Zeus Electronics Phoenix..... 602-263-6022
CA O'Halloran Assoc No Hollywood..... 213-877-0173
CA O'Halloran Assoc Palo Alto..... 415-969-1600
CO Zeus Electronics Denver..... 303-321-4246
FL Network Orange Boca Raton..... 305-395-6077
GA XPoint Corp Norcross..... 404-446-2764
HI Gray Assoc Honolulu..... 808-524-4220
IL Reshal Assoc Schaumburg..... 312-397-9010
MD Commart Inc Edgewater..... 301-261-4344
MI Data Brain Inc Fairhaven..... 617-994-3944
MI Dataloop Systems Co Brighton..... 313-231-2001
MN DCE Assoc Eden Prairie..... 612-941-8697
MO Information Products.....
Independence..... 816-252-3700
NE Information Products Omaha..... 402-895-5850
NJ Data Net Inc Englewood..... 201-569-2353
NY Communications Technology.....
Rochester..... 716-244-4431
NC XPoint Corp Raleigh..... 919-787-8352
TX Apollo DataComm Garland..... 214-494-4766
VA Commart Inc Amherst..... 804-922-7292
WA REP-SAC Corp Bellevue..... 206-821-8552

ATLANTIC SCIENTIFIC CORP
2711 S HARBOUR CITY BLVD
MELBOURNE FL 32901..... 305-725-8000
M BOGGS

ATLANTIC ULTRAVIOLET CORP
250 N FEHR WAY BAY SHORE
NY 11706..... 516-586-5900
A WYSOCKI EMP 12 ENG 2 \$1,000-\$2,500K

ATLAS ENERGY SYSTEMS 16872
MILLIKEN AVE BOX 19129 IRVINE
CA 92713 TWX 181-661..... 714-863-0900
C THOMPSON EMP 20 ENG 3
ADV PGS 287,330

CA Atlas Energy Systems Santa Ana..... 714-953-9645
CA Atlas Energy Systems Santa Clara..... 408-988-5356
IL Atlas Energy Systems Chicago..... 312-372-2237
MA Atlas Energy Systems Belmont..... 617-492-2525

ATLAS FIBRE CO 3721 W CHASE AVE
SKOKIE IL 60076..... 312-465-1234
R WELCH EMP 50 ENG 3 \$2,500-\$5,000K
OH Plasticsconsultants Cleveland..... 216-944-9900

DISTRIBUTORS
CA Allen Plastics Arcadia..... 818-447-1315
CA Port Plastics Montebello..... 213-685-6200
CT Industrial Safety Supply.....
W Hartford..... 203-233-9881
CT Current Inc E Haven..... 203-469-2853
GA Piedmont Plastics Norcross..... 404-449-4700
MA Patriot Plastics Woburn..... 617-935-3990
MI PTL National Birmingham..... 800-521-2510
MN Precision Punch & Plastics Mnpls..... 612-554-9351
NY Insul-Fab Plastics E Rutherford..... 201-939-7392
NJ Franklin Fibre Lamitec.....
Lake Success..... 212-347-2120
NY Accurate Plastics Yonkers..... 800-431-2274
NC Piedmont Plastics Charlotte..... 704-597-8200
OH Dayton Plastics Inc Dayton..... 513-276-3921
OR Port Plastics Portland..... 800-547-0915
TN Metro Plastics Nashville..... 615-834-6033
TX A-1 Plastic Supply Dallas..... 214-233-0671
TX Allied Plastics Sply Dallas.....
Texas..... 214-392-2708
TX C P Waggoner Sales Grand Prairie..... 214-988-0376
WA Port Plastics Tukwila..... 206-575-4994

ATLAS SOUND DIV AMER TRADING
& PROD CORP 10 POMEROY RD
PARSHIPANY NJ 07054..... 201-887-7800
D CHAMBERS EMP 400 ENG 10
AZ J R Morgan Agency Phoenix..... 602-268-3464
AZ J Y Schoonmaker Co Little Rock..... 501-375-2168
CA EESCO Los Angeles..... 818-242-8823
CA Warren Assoc Santa Clara..... 408-988-7762
CO Systems Mktg Services Evergreen..... 303-674-3390
DE Lowery Assoc Broomall PA..... 215-356-5300
FL Bencisk Assoc Ocala..... 1-800-342-0197
GA Cartwright & Bean Atlanta..... 404-233-2939
IL Geo Pettit Co Berkeley..... 312-261-0342
IN Robt Misk Co Indpls..... 317-842-3400
MD Lowery Assoc Co Mt Airy..... 301-831-5827
MA Piper Assoc Needham..... 617-449-1144
MI Robert Misk Co Southfield..... 313-354-3310
MN Kodo Assoc Mnpls..... 612-881-1255
MO Forristal-Young Sales KC..... 816-358-6771
NY Paston-Hunter Co Syracuse..... 315-437-2992
NY Irv Brown Co Brooklyn..... 718-493-1579
NC Cartwright & Bean Charlotte..... 704-377-5673
OH Weller Elctn Sales Columbus..... 614-885-7819
OK J Y Schoonmaker Co Okla City..... 214-349-1650
PA Control Assembly Co Pittsburgh..... 412-561-0293
TN Cartwright & Bean Memphis..... 901-276-4442
TX J Y Schoonmaker Co Dallas..... 214-349-1650
VA Lowery Assoc Broomall..... 215-356-5300
WA Roger Ponto Assoc Bellevue..... 206-821-2996

ATLEE INC 10 BAYFIELD DR
NORTH ANDOVER MA 01845..... 617-681-1003
J COTUGNO EMP 35 ENG 2 \$1,000-\$2,500K
CA CALREP Agoura..... 213-991-1940
CA Paul O'Neal Assoc Corte Madera..... 415-924-1691
CO Challenge Sales Arvada..... 303-427-3149
FL R-Rep Co Melbourne..... 305-725-6993
IN C-S Elctn Sales Frankfort..... 317-659-1874
MD Stitzer Assoc Baltimore..... 301-823-2600
MA RMS Assoc Framingham..... 617-890-4069
MN Countryman Assoc St Paul..... 612-645-9151
NY L-Ton Latham..... 198-785-5032
NY C R Mayer Co Huntington..... 516-921-7876
OH Technical Sales Assoc Cleveland..... 216-461-0826
PA Stitzer Assoc Paoli..... 215-644-5500
TX Rem-Air Component Corp Dallas..... 214-234-1069

DISTRIBUTORS
AZ EGR Phoenix..... 602-959-0320
CA Acort Indust Inc Chatsworth..... 818-700-2991
IL Bisco Industries Franklin Park..... 312-451-1230
IN Graham Elect Ft Wayne..... 219-423-3422
IN Graham Elect Supply Indpls..... 317-634-8202
IA DEECO Cedar Rapids..... 319-365-7551
MA RUSH Winchester..... 617-729-5800
MA Hardware Specialty Co.....
Marlborough..... 617-481-8622
MN Aero Space Computer Mnpls..... 612-884-4725
NJ New York Fasteners Paramus..... 201-265-8770
NY Car Lac Bohemia..... 516-567-4200
NY Hardware Specialties LIC..... 212-361-9393
NY Summit Elect Rochester..... 716-334-8110
NY G & B Fasteners Plainville..... 516-694-0990
NY Merit Fastener Inc Bayshore..... 516-242-1800
TX National Precision Prods Dallas..... 214-357-3921
TX Altair Co Richardson..... 214-231-4461
VA Virginia Radio Supply.....
Charlottesville..... 804-236-4184

ATOMERGIC CHEMETALS CORP
100 FAIRCHILD AVE PLAINVIEW
NY 11803 TWX 14-4612..... 516-349-8800
M BLUM EMP 25 ENG 5 \$5,000-\$10,000K

DISTRIBUTORS
FR Ibox Importers Inc London ON..... 519-472-0011
ATOMIKA INC BOX 77070
PITTSBURGH PA 15215 TWX 209424..... 412-963-8202
M MCKEOWN EMP 5 ENG 2 \$1,000-\$2,500K
CA Micro Tech West Tustin..... 714-547-5941
NJ Xelon Short Hills..... 201-564-8833
WA Paimborg Assoc Mercer Island..... 206-232-3444

ATR ELECTRONICS INC 280
E LAFAYETTE RD ST PAUL
MN 55101..... 612-222-3791
C NUTTER

AT&T COMPONENTS & ELECTRONIC
SYSTEMS 555 UNION BLVD
ALLEN TOWN PA 18103..... 800-372-2447
ADV PGS 213-215,363-365

AZ E Crews, J Lee Phoenix..... 602-285-9660
CA M Calk Huntsville..... 205-837-6062
CA E H VanWagner VanNuys..... 818-785-4911
CA F D Cavallaro Cypress..... 714-220-6100
CA A C Dipman Sunnyvale..... 408-522-5555
FL K Green, B Halley Orlando..... 305-859-1179
GA M Russel Norcross..... 404-446-4710
IL C G Kimbler Itasca..... 312-250-9777
MO R Gormel King of Prussia..... 215-768-2726
MA L W Woronoff Framingham..... 617-626-2161
MN J W Mackin Minneapolis..... 612-724-2019
NJ AT & T 1 Oak Way Berkeley Heights..... 201-771-2601
NC L Malatti, T Shirley Raleigh..... 919-790-9005
OR M R Holtman Portland..... 503-244-3883
PA H A Morrison King of Prussia..... 215-768-2626
TX F J Gautreaux Bedford..... 817-354-9798

DISTRIBUTORS
CA Hamilton Avnet Electronics.....
Culver City..... 213-558-2000
NY Schweber Electronics Westbury..... 516-334-7474

AT & T TELETYPE CORP 5555
W TOUHY AVE SKOKIE IL 60077
TWX 910 223-3611..... 312-982-2000
E JENKINS EMP 4500 OVER \$10,000K

ATV RESEARCH INC 13TH & BROADWAY
DAKOTA CITY NE 68731..... 402-987-3771
M SHADBOLT EMP 15 ENG 1 \$250-\$500K

AUBURN MFG CO PEASE AVE
& STACK ST MIDDLETOWN
CT 06457..... 203-346-6677
G MITTELMAN EMP 47 ENG 2
CA FABCO Assoc Long Beach..... 213-424-1961
NY Ron Sharon Assoc Leonia NJ..... 201-944-2626

AUDIO ACCESSORIES INC MILL ST
MARLOW NH 03456..... 603-446-3335
T SYMONDS

AUDIO PRECISION INC BOX 2209
BEAVERTON OR 97075 TWX 283957..... 503-297-4837
R METZLER ENG 5
CA Pacific Coast Mktg Los Gatos..... 408-370-3505
MA Eastern Sys Technology Hopkinton..... 617-435-9591
NJ Dick Brown Assoc Pt Pleasant..... 201-295-1357
PA John Bell Assoc Mechanicsville..... 215-794-7075

AUDIOSEARS CORP SOUTH ST
STAMFORD NY 12167..... 607-652-7305
D HARTWELL EMP 100 ENG 6 \$2,500-\$5,000K
CA H Brunning Newport Bch..... 714-640-8827

AUDIOTRONICS CORP 7428
BELLARE AVE BOX 3997
NORTH HOLLYWOOD CA 91609
TWX 69-1241..... 818-765-2645
C MUSSON EMP 225 ENG 8 \$5,000-\$10,000K

DISTRIBUTORS
CA Richards Assoc San Jose..... 408-297-3010
CA Tech Displays Sepulveda..... 818-895-1706
KS Mid-Tec Assoc DeSoto..... 913-441-6565
MA Olson, Ferree & Assoc Bellevue..... 206-883-7792
MN Torkelson Assoc Mnpls..... 612-835-2414
NY J-Square Marketing Jericho..... 516-935-3200
OH KRW Sales Westlake..... 216-871-7521
PA QED Electronics Willow Grove..... 215-657-5600
TX Dynamark Inc Dallas..... 214-437-3333
VA Glen White Assoc Lynchburg..... 804-233-6291

AUDIO-VIDEO ENGINEERING CO
65 NANCY BLVD MERRICK
NY 11566..... 516-546-4239
O DRUCKER EMP 4 ENG 1 \$100-\$250K

AUDIO VOX INTERCOM INC
9485 CHARLES DE LA TOUR
MONTREAL PQ H4N1M5..... 514-381-2741
J LAVERDURE EMP 16 ENG 2 \$500-\$1,000K

AUGAT/ES.P INC 12832 CHADRON AVE
HAWTHORNE CA 90250..... 213-973-0262
TWX 66-4467
E SEQUEIRA EMP 150 ENG 20 \$5,000-\$10,000K
CA Augat/ES.P Inc Woodland Hills..... 818-716-9096
MA Augat/ES.P Inc Wakefield..... 617-246-4707
TX Augat/ES.P Inc San Antonio..... 512-697-0231

AUGAT INC 40 PERRY AVE
ATTLEBORO MA 02703..... 617-222-2202
TWX 710-391-0644
R THORPE EMP 4000 ENG 600

AUGAT MICROTEC 2520 TURQUOIS CIR
NEWBURY PARK CA 91320..... 805-498-9643
B LEBOW EMP 35 ENG 5 \$1,000-\$2,500K

AUGAT/PYLON CO INC 452
JOHN DIETSCH BLVD BOX 2510
ATTLEBORO FALLS MA 02763..... 617-699-7646
J DIECHEL EMP 180 ENG 15
CA D C Electronics Santa Clara..... 408-980-1199
CA Augat-Pylon Upland..... 714-985-4931
CO Spectrum Sales Co Denver..... 303-480-9991
CT H Gelling Assoc Brookfield..... 203-775-4541
FL Synergetic Rep Inc Largo..... 813-586-2871
IL Miltex Sales Corp Elmhurst..... 312-941-7100

KS	Hi-Tec Equip Co Shawnee Mission	913-631-2725
MA	DeSimone Assoc Needham	617-444-9566
NJ	Rical Assoc Ridgefield	201-945-5250
NY	The Solder Pot Inc Binghamton	607-648-6751
OH	Ames Corp Cleveland	216-572-1455
TX	T Mello Co Dallas	214-241-9196
VA	ARA Elctns Richmond	804-285-9309
WA	Electronic Group Redmond	206-882-0962
FR	Synergetic Reps San Juan PR	809-762-2688
FR	Augat Electronics Mississauga ON	416-677-1500

AULT INC 1600 FREEWAY BLVD		
MINNEAPOLIS MN 55430		
TXW	910-576-3435	612-560-9300
J NEWHOUSE EMP 430 ENG 17 OVER \$10,000K		
CA	Magna Sales Santa Clara	408-727-8753
CA	West Elctn Sales Garden Grove	714-898-0120
CO	Wm J Purdy Co Denver	303-777-1411
FL	QXI Inc St Petersburg	813-821-2281
IL	MSI Arlington Hgts	312-956-1000
IA	Beams Co Des Moines	515-255-1148
MD	Delta III Assoc Columbia	301-730-4700
MA	Marathon Sales Ltd Framingham	617-875-3566
MI	Jay Mktg Assoc Plymouth	313-459-1200
NY	P Saffier Assoc Lynbrook	516-593-7880
NC	L & D Inc Greensboro	919-292-3201
OH	Lyons Corp Dayton	513-278-0714
PA	Samuel K MacDonald Inc Phila	215-455-1205
TX	R F Kimball Co Richardson	214-231-3447
WA	Jas J Backer Co Seattle	206-285-1300

DISTRIBUTORS

CA	National Electro-Sales	
	Corp Van Nuys	213-781-0505
CA	Tauber Elect Inc San Diego	714-274-7242
CA	USI Elect Components Mt View	415-969-5420
IL	JaBro Batteries Downers Grove	312-964-9358
MA	ADCOUR Sharon	617-784-8123
MO	Filigan Elect St. Charles	314-946-6201
OH	Hughes Peters Cincinnati	513-351-2000

AURIC CORP 470 FRELINGHUYSEN AVE		
NEWARK NJ 07114		
M BICK EMP 41 ENG 4 \$5,000-\$10,000K		201-242-4110

AUSCOM A KMW SYS CO 2007		
KRAMER LA AUSTIN TX 78758		
TXW	910-874-2005	512-836-8080
L LEWIS EMP 20 ENG 14 \$5,000-\$10,000K		
MD	Barlett Associates	301-231-9300
MA	Barlett Associates	617-879-7530
MO	ESC St Louis	314-997-1515
NY	Barlett Associates	914-592-1550
PA	Barlett Associates	215-666-7100

AUSTRON INC BOX 14766 AUSTIN		
TX 78761 TWX 910-874-1356		
M MAYHUE EMP 171 ENG 19 \$5,000-\$10,000K		512-251-2313

AL	Scientific Devices SE Huntsville	205-536-1969
AZ	Territorial Mktg Scottsdale	602-994-8665
CA	Westronics Assoc San Carlos	415-592-1417
CA	Thorson Co Signal Hill	213-595-0361
CO	Sierra Technical Group Boulder	303-444-2424
FL	Scientific Devices SE Orlando	305-841-8180
GA	Scientific Devices Marietta	404-427-8660
IL	Loren Green Assoc Elk Grove	312-593-0282
IN	Loren Green Assoc Indpls	317-293-9827
MA	Scheintef Assoc Reading	617-994-2304
MN	Loren Green Assoc Mnpls	612-571-6666
NY	CDB Enrtps Huntington	516-692-5200
NY	Kapital Inst Sales Frankfurt	315-894-4245
NC	Scientific Devices SE Winston Salem	919-765-5766
OH	Ashby Assoc Dayton	513-252-5627
OR	Cascade Data Marketing Portland	503-641-9266
PA	Scientific Devices Plymouth Meeting	215-825-9515
TX	Scientific Devices SW Richardson	214-231-8106
VA	Austron Inc McLean	703-734-1990
WA	Cascade Data Marketing Woodinville	206-788-3421

AUTOCON INDUSTRIES INC		
995 UNIVERSITY AVE ST PAUL		
MN 55104		
R C BAKER EMP 200 ENG 25 OVER \$10,000K		612-642-1784

AR	McCallister Equip Co Little Rock	375-4474
CA	Gierlich/Mitchell Inc Manhattan Bch	546-4717
CA	Ambrosini & Chalmers San Mateo	349-8222
CO	Ted D Miller Assoc Denver	758-3912
FL	Sander Aspinwall & Assoc Ft Lauderdale	739-0880
GA	J K Duren Co Atlanta	992-5405
IL	Envirocom Controls Chicago	932-9322
IA	Automatic Sys Co Ames	232-4770
KS	R E Pedrotti Co Shawnee Mission	677-3366
LA	Parson & Sanderson Metairie	733-1330
MD	Retro Electric Baltimore	247-3445
MI	Engineering Sales Corp Natick	655-9131
MN	Vessco Inc Long Lake	528-3072
MO	Manes Sales Eng Co Ballwin	475-0414
MT	Industrial Systems Billings	394-4659
NY	G A Fleet & Assoc Harrison	252-6671
NC	Interstate Unit Sales Charlotte	835-4000
OH	J P Bergen Co Cleveland	377-2636
PA	ReinBrecht Assoc Exton	932-9445
TX	Armbrister-Searcy Assoc Knoxville	252-1630
TN	MRC Systems Houston	688-3500
UT	Folsom Assoc SLC	771-7511
VA	Syndor Hydrodynamics Richmond	972-4600
WA	Stead & Baggerly Seattle	644-2725
FR	Contel Eng Ltd Toronto	644-1700
FR	Crescent Controls Ltd Vancouver B C	252-4158
		732-7461

AUTODESK INC 2658 BRIDGEWAY		
SAUSALITO CA 94965		
J MACLEOD EMP 60		415-332-2344
AUTOLOGIC INC 1050 RANCHO		
CONEJO BLVD NEWBURY PARK		
CA 91320 TWX 910-336-1541		
D NIEMAN EMP 420 ENG 35 OVER \$10,000K		805-498-9611
GA	Autologic Norcross	404-441-2775
IL	Autologic Des Plaines	312-297-0560
MA	Autologic Woburn	617-935-6184
TX	Autologic Dallas	214-239-0266

AUTOMATED PRODUCTION CONCEPTS INC		
8 E GARDEN PL POMPTON PLAINS		
NJ 07444		
H BROWNE EMP 9 ENG 2 \$1,000-\$2,500K		201-831-8300

AUTOMATIC COIL CORP 455 E 10 AVE		
HIALEAH FL 33010		
TXW	810-848-8097	305-883-5311
J KEITH EMP 250-499 ENG \$5,000-\$10,000K		

AL	CSR Electronics Huntsville	205-533-2444
CA	Mil-Cor Sales Huntington Bch	714-840-2424
GA	CSR Electronics Atlanta	404-369-3720
MD	CSDS Inc Laurel	703-385-0139
MA	Allard Galagan & Assoc Manchester	617-526-7733
MN	Holmgren Assoc Spring Lake Pk	612-786-7641
NY	Olkon Corp Carle Park	615-747-2330
NC	CSR Electronics Raleigh	919-878-9200
OH	Rockford Controls Ohio Euclid	261-731-5250
OK	MGR Electronics Bixby	918-369-5186
TX	MGR Electronics Dallas	214-942-6041

AUTOMATIC CONNECTOR INC		
400 MORELAND RD COMMACK		
NY 11725 TWX 510-228-3744		
W PITCHER EMP 200 ENG 10 OVER \$10,000K		516-543-5000

AZ	WJM Sales Tucson	602-888-4847
CA	Dura Electronics Sales Cupertino	408-255-2084
CA	ElSCO Electronics Garden Grove	714-891-4621
CO	Component Prod Sales Boulder	303-530-2800
CT	Millennium Elec Bridgeport	203-372-2037
FL	Brennan Assoc Clearwater	813-446-5006
IL	WG Controls Lisle	312-963-5954
IN	Given Corp Ft Wayne	219-432-5585
MD	Jedco Electronics of NJ Union NJ	201-355-0474
MA	Component Technology Woburn	617-933-5390
MN	Willman Elect Mnpls	612-566-5010
MO	Rothkopf & Assoc St Louis	314-961-4485
NJ	Sunday-O'Brien Haddonfield	609-429-4013
NY	Quality Components Manlius	515-682-8835
NY	Sonkin Assoc Mount Vernon	914-668-9809
NC	B T Funderburk Raleigh	919-782-3493
OH	Stegman-Blaine Mktg Cincinnati	513-729-1969
TX	Aid Electronics Irving	214-259-6761
VA	Engineering Reps Assoc Martinsville	703-632-2365
WA	Venture Electronics Bellevue	206-454-4594

DISTRIBUTORS

AL	Pioneer Technologies Huntsville	205-837-9300
AZ	Time Elect/AZ Tempe	602-967-2000
CA	Lodan Electronics Belmont	415-592-4600
CA	Electronic Resources Sunnyvale	408-745-1420
CA	Time Elect/CA Torrance	213-230-0880
CT	Pwise Components Greenwich	203-531-4880
FL	Pioneer Technologies Altamonte	305-834-9090
GA	Pioneer-Air Corp Atlanta	404-351-3545
GA	Pioneer Technologies Norcross	404-448-1711
KS	Wichita Aircraft Inc Wichita	316-838-1421
MD	Radio Elec Svc Baltimore	301-823-0070
MD	Pioneer Technologies Gaithersburg	301-921-0660
MA	Time Elect/New Eng Woburn	617-935-8080
NY	Connector Concepts Pt Washington	516-883-3800
NY	Summit Distributors Buffalo	716-884-3450
NY	Microwave Distributors Commack	516-543-4771
NY	Patriot Electronics Lynbrook	516-599-8881
NC	Pioneer Technologies Charlotte	704-527-8188
PA	Henwarr Inc Warminster	215-675-0140
TX	Pioneer Technologies Horsham	215-674-4000
TX	Wallace Electronics Dallas	214-340-0400
UT	Standard Supply Co SLC	801-486-3371
FR	Carsten Elect Ltd Scarborough ON	416-751-2371
FR	Carsten Elect Ltd Montreal PQ	514-334-8321

AUTOMATIC CONTROL ELECTRONICS CO		
BOX 20264 SAN ANTONIO		
TX 78220		
D FITZ SIMON EMP 25 ENG 5 \$2,500-\$5,000K		512-661-4111

AUTOMATIC EQUIPMENT CORP		
2974 GRAVES LA CINCINNATI		
OH 45241		
R KLAUS EMP 29 ENG 2		513-769-0044

AUTOMATIC RADIO SALES INC		
2 MAIN ST MELROSE MA 02176		
TWX 949425		
K HOUSMAN EMP 500 ENG 12 OVER \$10,000K		617-321-2300

AUTOMATIC SWITCH CO 50-60		
HANOVER RD FLORHAM PARK		
NJ 07932 TWX 136-422		
R TAYLOR EMP 1460 ENG 110 OVER \$10,000K		201-966-2000
AL	Automatic Switch Co Birmingham	205-988-8169
AZ	Automatic Switch Co Phoenix	602-943-0840
CA	Automatic Switch Co City of Industry	213-695-0661
CA	Automatic Switch Co San Mateo	415-574-2726
CO	Automatic Switch Co Englewood	303-779-6990
FL	Automatic Switch Co Tampa	813-872-2723
GA	Automatic Switch Co Atlanta	404-998-9933
IL	Automatic Switch Co Elk Grove Vlg	312-640-3450
IN	C M Buck & Assoc Indpls	317-293-5704
LA	Automatic Switch Co New Orleans	504-834-3584
MD	Automatic Switch Co Baltimore	301-944-8880
MA	Automatic Switch Co Newton	617-527-8230

MI	Automatic Switch Co Southfield	313-569-2621
MN	Automatic Switch Co Mnpls	612-925-5521
MO	Automatic Switch St Louis	314-962-6321
MO	Duncan Sales & Engrg KC	816-356-1888
NE	Automatic Switch Co Omaha	402-397-4325
NJ	Automatic Switch Co Cherry Hill	609-429-0300
NJ	Automatic Switch Co Totowa	201-785-9451
NY	Automatic Switch Co No Syracuse	315-458-3381
NC	Purser, London & Edwards Charlotte	704-366-9221
OH	McNay Equip Co Inc Cincinnati	513-984-9451
OH	Anderson-Bolds Inc Cleveland	216-229-4701
OK	Automatic Engrg Tulsa	918-585-5701
PA	Continental Sales & Engrg Co Pittsburgh	412-241-5661
TX	Automatic Switch Co Houston	713-523-6161
TX	Automatic Switch Co Dallas	214-699-1111
UT	Control Equipment Co SLC	801-487-7771
VA	Automatic Switch Co Falls Church	703-237-0701
WA	Automatic Switch Co Bellevue	206-454-6151
WI	Automatic Switch Co Milwaukee	414-962-2291

AUTOMATIC TEST SYSTEMS		
23 POPLAR ST MALDEN MA 02148		
G BAXTER		
		617-322-1101

AUTOMATIC TIMING & CONTROLS CO		
201 S GULPH RD KING		
OF PRUSSIA PA 19406		
TWX 84-6437		
R SWANSON EMP 300 ENG 15		800-441-8241

DISTRIBUTORS

AZ	Portis & Assoc Phoenix	602-947-4371
CA	Instrument Lab Gardena	213-327-3281
CA	Automated Proc Controls San Francisco	415-467-6161
CO	E & M Sls Englewood	303-761-6201
FL	A A Elec Div Lakeland	813-665-6941
GA	A A Electric Div of AEC Norcross	404-449-8671
IL	Rockford Controls Downers Grove	312-960-2041
IN	Rockford Controls Indpls	317-248-2513
KY	Air-Hydro Power Louisville	502-451-1011
LA	Mid South Sls New Orleans	504-641-7481
MD	Jobe & Co Baltimore	301-327-0221
MA	Hingham Bay Corp Hingham	617-749-8701
MI	H H Barnum Co Brighton	313-229-2961
MN	Automated Controls Mnpls	612-941-4091
MO	Duncan Sls & Engrg KC	816-356-1881
NE	Lakeland Engrg Equip Omaha	402-734-2601
NJ	Norman Brager Co Newark	201-344-1101
NY	E & M Sls Albuquerque	505-883-8951
NY	Niagara Electric Sls Buffalo	716-825-3101
NY	Niagara Elec Sls Syracuse	315-437-1651
NC	Brown & Morrison Charlotte	704-554-8571
OH	Anderson-Bolds Cincinnati	513-528-5681
OK	Driscoll Auto Control Tulsa	918-747-6621
OR	Coons Western Portland	503-295-0411
PA	Applied Controls King of Prussia	215-265-3831
TX	Gettys-Eads-Adair Houston	713-781-3001
UT	Control Equip SLC	801-487-7771
VA	Jobe & Co Richmond	804-282-6501
WA	J A Tudor & Assoc Seattle	206-441-7441
WI	Automation Engrg Cedarburg	414-377-7501

AUTOMATION COMPONENTS INC		
1 SHORT AVE PECKVILLE		
PA 18452 TWX 757607		
C ZESHONSKI EMP 125 ENG 3 \$2,500-\$5,000K		717-489-7501
IL	Tom Hunter & Assoc Highland Pk	312-433-7000
IN	Electronic Mktg Consultants Indpls	317-253-1661
PA	Vista Sales Assoc Southampton	215-322-7421

AUTOMATION DEVICES INC		
BOX AD DEPT EBG85 FAIRVIEW		
PA 16415		
R RUHL EMP 45 ENG 3		814-474-5561

AUTOMATION UNLTD INC 10		
ROESSLER RD WOBURN MA 01801		
TXW 948232	617-933-7288	
R LONGO EMP 45 ENG 7 \$2,500-\$5,000K		
AUTOMECH ASSOCIATES INC		
159 WASHINGTON AVE NORTH		
HAVEN CT 06473	203-239-2233	
A STATKUM EMP 10 ENG 1 \$250-\$500K		
AUTONUMERICS INC 120 PLANT AVE		
HAUPPAUGE NY 11788		
TXW 510-227-8899	516-234-4343	
M POOLA EMP 40 ENG 5 \$2,500-\$5,000K		
AUTOSPLICE INC 59-12 37 AV		
WOODSIDE NY 11377 TWX 968171	718-429-0500	
S GREENSPAN EMP 100 ENG 10		
CA English/Damco Laguna Hills	714-837-3801	
CA Autosplice West San Diego	619-560-0571	
IL Schiffer Assoc GmbH Chicago	312-847-2400	
IN Menze Sales Inc Ft Wayne	219-747-5616	
MA Autosplice Northeast Cambridge	617-576-3838	
AUTO-SWAGE PRODUCTS INC		
726 RIVER RD SHELTON		
CT 06484	203-929-1401	
R MIKULSKY EMP 200 ENG 5 OVER \$10,000K		
AZ Electro-Mechanical Sales Tucson	602-791-3403	
CA Paul O'Neal Assoc Corte Medera	415-924-1691	
CA Haldeman & Frazier Glendale	213-247-3330	
CO Marketing Technologies Boulder	303-499-3277	
CT Yankee Engrg Svcs Roxbury	203-426-5679	
FL F/G Assoc Boca Raton	305-395-3907	
FL Perhats Assoc Barrington	312-381-6360	
IN H K Feaster Assoc Greensburg	812-663-5689	
MO W R Maleckar Co Mpls	612-926-7601	
MO Meiners Sales Co St Louis	314-383-4833	
NY Antill-Thrasher Assoc Rochester	716-586-0595	
OH Bray Assoc Chagrin Falls	216-247-4474	
PA AM Tech Sales Broomall	215-356-0574	
SC Eagle Sales Inc Fort Mills	803-548-2222	
WA R R Humphrey Assoc Bellview	800-543-3000	
FR W H Elect Regstr Candiac PQ	514-632-3685	
AUTO-TROL TECHNOLOGY CORP		
12500 N WASHINGTON ST DENVER		
CO 80233 TWX 4322024	303-452-4919	
J NORROD EMP 640 ENG 110 OVER \$10,000K		
CA B Betts Irvine	714-474-0181	
CA B Broomhead Oakland	415-562-5612	
CO D Hanna Denver	303-452-4919	
GA J King Atlanta	404-256-6393	
LA A Strazzanti Schaumberg	312-490-9300	
J Phillips New Orleans	504-282-2577	
MD J Echter Columbia	301-730-2374	
G LeBlanc Lexington	617-862-5590	
MI R Smith Troy	313-643-9360	
NJ T Hulfting Bloomington	612-893-1226	
NJ J Hoban Roseland	201-226-9000	
C Herbeck Amherst	716-634-0614	
OH S Booth Independence	216-447-9616	
PA H Nowak Blue Bell	215-834-1441	
TX G James Dallas	214-661-8027	
WA D Francisco Bellevue WA	206-451-2885	
FR K Dedeluk Calgary AB	403-250-1232	
FR G Michael St Laurent PQ	514-739-4788	
FR R Asta Mississauga ON	416-624-5908	
AUTOTROL CORP 365 E PRAIRIE		
BOX 557 CRYSTAL LAKE IL 60014		
TXW 72-2417	815-459-3080	
D PETERSON EMP 140 ENG 4 \$2,500-\$5,000K		
AUTOTRON INC BOX 420 DANVILLE		
IL 61834-0420	217-446-0650	
J GIESKE EMP 30 ENG 3 \$1,000-\$2,500K		
AR Dick Baxter & Assoc Searcy	501-268-8552	
CA J M Krotzyner San Francisco	989-1929	
CO Control Agency Westminster	303-427-4179	
FL R D Jacobs Ft Lauderdale	462-1932	
GA Electro-Rep Assoc Atlanta	320-1134	
IL Tynmar Sales Lisle	852-4834	
IL Carlin Automation Rock Island	788-1275	
KS TMW Co Lenexa	469-5885	
MD Tyler Griffin Co Laurel	301-725-8808	
MA Garron & Assoc Framingham	617-875-6081	
MI Basic Service Corp Detroit	837-8820	
MD D & P Engrg & Sales Anoka	612-421-5710	
MO TMW Co St Louis	314-664-4005	
NJ Long, Poveromo & Assoc Bayonne	201-858-3745	
NY H D McCleery Assoc East Aurora	716-652-1042	
NC Electro-Rep Assoc Inc Charlotte	527-2530	
OH C A Robinson Co Cleveland	216-473-6044	
OK Advance Technical Sales Tulsa	918-664-0482	
PA Tyler Griffin Co Paoli	644-7710	
UT Control Agency SLC	801-972-8787	
WA C B Parsons & Co Kent	762-7373	
WI Larsen Assoc Wauwatosa	258-0529	
FR Higginson Equip Sales Ltd		
Burlington, ON	416-335-2211	
AUTRONICS CORP 314 E LIVE		
OAK AVE ARCADIA CA 91006		
TXW 910-582-3216	818-445-5470	
A CLOUD EMP 70 ENG 6 \$2,500-\$5,000K		
TX Scientific Sales Co Richardson	214-231-6541	
AVA INSTRUMENTATION INC		
8010 HWY 9 BEN LOMOND		
CA 95005 TWX 510-100-7906	408-336-2281	
A HUGHES EMP 7 ENG 2 \$500-\$1,000K		
AVANTEK INC 3175 BOWERS AVE		
SANTA CLARA CA 95051		
TXW 910-339-9274	408-496-6710	
P MANNO EMP 2600 OVER \$10,000K		
AZ Thorson Co Scottsdale	602-998-2444	
CA Cain-White & Co Los Altos	415-948-6533	
CA Cain Technology Los Angeles	213-477-9054	

CA Cain Technology Orange	714-997-7311
CA AvanteK Inc Westlake Village	805-373-3870
CA AvanteK Inc Orange	714-978-8076
CA AvanteK Inc Santa Clara	408-986-8644
CO AvanteK Inc Aurora	303-367-1000
IL Dytec/Central Arlington Hts	312-394-3380
IL AvanteK Inc Palatine	312-358-8963
IN Dytec/Central Indpls	317-247-1316
MD Applied Engrg Consultants	
Beltville	301-595-5393
MD AvanteK Inc Columbia	301-381-2600
MA R J Sickles Assoc Lexington	617-862-5100
MA AvanteK Inc Chelmsford	617-256-6711
MI Comtel Instr Southfield	313-358-2505
NJ Technical Mktg Assoc Teterboro	201-342-4008
NM Thorson Co Albuquerque	505-293-8555
NY Robtrn Skaneateles	315-685-5731
NY AvanteK Inc Syosset	516-496-4500
OH Comtel Instr Cleveland	216-442-8080
TX Thorson Co Houston	713-771-3504
TX AvanteK Inc Richardson	214-437-5694
DISTRIBUTORS	
AZ Spirit Elect Scottsdale	602-998-1533
CA Pen Stock Co Los Altos	415-948-6552
CA Sertek Inc LA	213-477-9051
CA Sertek Inc Orange	714-997-7311
IN Peak Dist Inc Indpls	317-247-1316
MD Applied Specialties Beltsville	301-595-5393
AVATAR TECHNOLOGIES 99 SOUTH ST	
HOPINGTON MA 01748	
TXW 710-390-0375	617-435-6872
R CRAMER EMP 100 ENG 20 \$5,000-\$10,000K	
DISTRIBUTORS	
MA Butler Assoc Newton	617-984-5270
MI Epsom Great Lakes Southgate	313-281-2800
NJ Portable Computer Sys Cherry Hill	609-429-6162
NJ Glasgal Comm Inc Northvale	201-768-8082
OH Data Processing Sciences Cincinnati	513-961-0776
VA Capital Sys Inc Arlington	703-892-1150
FR Ahearn & Soper Toronto ON	416-675-3999
AVANTI COMMUNICATIONS CORP	
AQUIDNECK INDUSTRIAL PK	
NEWPORT RI 02840	
TXW 710-387-6543	401-849-4660
W SMITH EMP 230 ENG 30 OVER \$10,000K	
CA Avanti Los Angeles	213-312-9595
CA Avanti Anaheim	714-778-0827
GA Avanti Atlanta	404-255-8552
IL Avanti Naperville	312-983-9860
MD Avanti Landover	301-731-5578
MA Avanti Burlington	617-273-3414
NJ Avanti Woodbridge	201-750-1300
NY Avanti White Plains	914-682-9545
OH Avanti Westlake	216-892-9090
PA Avanti Marlton	609-596-4311
TX Avanti Richardson	214-980-6860
VA Avanti Richmond	804-794-4432
DISTRIBUTORS	
CA Data Express Long Beach	213-426-7880
CA DA/COM Systems Costa Mesa	714-751-3500
CO Beta Distributors Englewood	303-779-3604
CT Spectradata Inc Norwalk	203-846-2443
GA Gen Technologies Ind Harb Bch	305-777-1133
IN SEA Distributors Carmel	317-846-2591
MD Commart Distribution Edgewater	301-261-4344
MA Data Comm Systems Framingham	617-620-1800
MO Information Prods Independence	816-252-3700
NJ Valcom Distributors Ridgewood	201-652-0555
NJ Glasgal Communications Northvale	201-768-8082
OH ARC Distribution Westlake	216-835-8400
PA Ficomp Inc Horsham	215-441-8600
PA Infocore Inc King of Prussia	215-337-9611
TX Technical Concepts San Antonio	512-699-6345
TX Technical Concepts Richardson	214-783-9330
TX Technical Concepts Houston	713-890-4005
AVCO ELECTRONICS DIV 4807	
BRADFORD DR HUNTSVILLE	
AL 35805 TWX 810-726-2240	205-837-6500
J POOL EMP 1000 ENG 200 OVER \$10,000K	
AVEL-LINDBERG INC 1 ROWAN ST	
DANBURY CT 06810	
TXW 710-456-9984	203-797-8698
M ROMAN EMP 5 ENG 1 \$500-\$1,000K	
CA Chuck Cooper Co Buena Park	714-739-8526
DISTRIBUTORS	
CT Sager Wallingford	203-265-4600
MA Sager Hingham	617-749-6700
NY Martin Audio Corp NYC	212-541-5900
AVEX ELECTRONICS 1683 WINCHESTER	
RD BENSLEY PA 19020	215-638-1515
M BATLEY EMP 25 ENG 4	
AVIONIC INSTRUMENT INC	
943 E HAZELWOOD AVE RAHWAY	
NJ 07065 TWX 844-413	201-388-3500
M SOLTZ EMP 100 ENG 5	
AVTECH ELECTROSYSTEMS LTD	
BOX 5120 STN F OTTAWA	
ON K2C 3H4 TWX 053-4591	613-226-5772
M BUDARICH EMP 6 ENG 1 \$1,000-\$2,500K	
NY Avtech Electrosystems Ltd	
Ogdensburg	315-472-5270
AVTEL DIV UNITRON INC 10925	
MILLER RD DALLAS TX 75238	
TXW 882511	214-340-8600
R BEUTEL EMP 100 ENG 7 \$5,000-\$10,000K	
CA A Freebury Fallbrook	619-728-9710

PA D S Felsler Lansdowne	215-622-4811
VA C Hansen Arlington	703-379-0331
AVTRON MFG INC 10409 MEECH AVE	
CLEVELAND OH 44105	
TXW 810-421-8435	216-641-8310
EMP 275 ENG 40 OVER \$10,000K	
AVX CORP BOX 867 MYRTLE BEACH	
SC 29577 TWX 810-661-2252	803-448-9411
J WINN OVER \$10,000K	
AL Beacon Elect Assoc Huntsville	205-881-5031
AZ Interstate Mkt Assoc Scottsdale	602-244-9050
CA Interstate Mktg Assoc Woodland Hills	213-883-7606
CA Quadrep Inc San Jose	408-946-4000
CO Elcom Englewood	303-337-2300
FL Dyne-A-Mark Ft Lauderdale	305-771-6501
IL Thos B Hunter Assoc Itasca	312-250-9850
IN Frank J Campisano Co Indpls	317-253-7651
IA Comstrand Cedar Rapids	319-377-1575
MD Burgin-Kreh Assoc Baltimore	301-788-5200
MA John E Boeing Co Lexington	617-862-2500
MI J L Montgomery Southfield	313-358-2616
MO Comstrand Inc Mpls	612-788-9234
NE Bencke & McCaul Grandview	816-765-2998
NJ Thomas Assoc Belmar	609-933-2600
NY Comtronic Assoc Melville	516-249-0505
NY Bob Dean Inc Ithaca	607-257-1111
NC Tingen Technical Sales Raleigh	919-878-4440
OK Frank J Campisano Co Cincinnati	513-574-7111
OH Ammon & Rizos Co Tulsa	918-663-8788
PA Campisano Corapolis	412-264-5151
TX Ammon & Rizos Co Dallas	214-233-5591
UT Elcom S L C	801-532-7940
VA Burgin-Kreh Assoc Lynchburg	804-239-2626
WA Western Technical Sales Bellevue	206-641-3900
DISTRIBUTORS	
AZ Kierulff Elect Phoenix	602-243-4101
CA Intergrated Elect Chatsworth	213-998-2200
CA Wyle Dist Group El Segundo	213-322-8100
CA Cetec Elect San Jose	408-263-7373
CA Marshall Indus El Monte	213-686-0141
CA Kierulff Elect LA	213-725-0325
CA Wyle Dist Group Irvine	714-641-1600
CT JV Elect East Haven	203-469-2321
FL Kierulff Elect St Petersburg	813-576-1966
MD MS Elect Rockville	800-638-8944
MA Arrow Elect Woburn	617-933-8130
MA R C Components Wilmington	617-273-1860
MI R M Elect Grand Rapids	616-531-9300
NJ Arrow Elect Saddlebrook	201-797-5800
NJ J-Mar Elect Clifton	201-772-6400
NY Jaco Elect Hauppauge	516-273-5500
NY Arrow Elect Farmingdale	516-694-6800
NY Arrow Elet Rochester	716-275-0300
NY Patriot Elect Rockville Ctr	516-766-5550
OH Arrow Elect Kettering	513-253-9176
OH Akron Elect Akron	216-773-9183
PA Almo Elet Phila	215-698-4000
TX Arrow Elect Dallas	214-386-7500
TX TTI Ft Worth	817-335-8111
FR Future Elect Pte Claire	303-287-9611
AXEL ELECTRONICS INC 134-20	
JAMAICA AVE JAMAICA NY 11418	
TXW 710-582-2618	718-291-3900
J ALAIMO EMP 250 ENG 10 OVER \$10,000K	
CA HAMSA San Jose	408-225-8332
CA M Popick Arcadia	818-445-6000
FL Temco Sales Tampa	813-855-1968
HI Industrial Controls Honolulu	808-845-7471
MO Engineering Services Co St Louis	314-997-1515
NH Hollis Assoc Amherst	603-673-2544
NY EIM N Babylon	516-643-5700
OH John O Olsen Co Cincinnati	513-574-7711
PA Campbell Assoc Southampton	215-322-6630
VA Burgin-Kreh Assoc Baltimore	301-265-8500
FR Electrodesign Ltd Montreal PQ	514-636-4838
FR Iker Intl Pittsburgh	412-781-6023
AXIAL MAGNETICS 15922 STRATHERN	
VAN NUYS CA 91406	818-994-3346
E ERDMAN EMP 2 ENG 2	
AXIOM CORP 1014 GRISWOLD AVE	
SAN FERNANDO CA 91340	
TXW 910-496-1746	818-365-9521
P DETORA EMP 65 ENG 5 OVER \$10,000K	
DISTRIBUTORS	
NY Kin-Tronics Yonkers	914-668-9882
AXIS INC 7825 ENGINEER RD 208	
SAN DIEGO CA 92111 TWX 325144	619-580-7737
B PAUL EMP 12 ENG 5 \$1,000-\$2,500K	
FL Electronic Mrs Agents	
St Petersburg	813-894-1171
IL Fairlines Chicago	312-735-2606
MD Robert Elctn Sales Columbia	301-788-2380
MI Infinity Southfield	313-557-7230
MN First Rep MN Eden Prairie	612-944-2097
WA Olson, Ferree & Assoc Bellevue	206-883-7792
AYDIN CONTROLS 414 COMMERCE DR	
FT WASHINGTON PA 19034	
TXW 510-661-0518	215-542-7800
J TERMEER EMP 570 ENG 80 OVER \$10,000K	
AZ Holder Hauer Inc Tempe	602-242-4025
CA Aydin Controls San Jose	408-365-3650
CA Aydin Controls Culver City	213-215-9500
FL Aydin Controls Melbourne	305-242-0009
IL Sector Engrg sales Elmhurst	312-530-7850
MD Microtatics Corp Gaithersburg	301-840-1995
MA Aydin Controls Waltham	617-890-0203
NY Ossman Instruments East Syracuse	515-437-7052
NY John Jordan Assoc Huntington	516-271-9478
OH Aydin Controls Columbus	614-863-8900
PA QED Electronics Willow Grove	215-657-5600

TX Aydin Controls Houston..... 713-449-6244
WA Aydin Controls Seattle..... 206-575-3150
FR Allan Crawford Assoc Mississauga
ON..... 416-678-1500

AYDIN MONITOR SYSTEMS 502
OFFICE CTR DR FT WASHINGTON
PA 19034 TWX 173185..... 215-646-8100
G HAAG EMP 300 ENG 60 OVER \$10,000K

CA Creative Technology Goleta..... 805-968-0011
CO Pond Assoc Littleton..... 303-798-2904
GA W A Brown Inst Ellijay..... 404-276-2818
MD Riffe Assoc Greenbelt..... 301-474-8600
TX Houston Assoc Arlington..... 817-265-2931
WA Tasco Inc Bellevue..... 206-453-1414

AYDIN RADAR & EW DIV 32
GREAT OAKS BLVD SAN JOSE
CA 95119 TWX 910-373-1238..... 408-629-1100
EMP 100 ENG 50

AYDIN VECTOR DIV FRIENDS
LA BOX 328 NEWTOWN PA 18940
TWX 510-667-2320..... 215-968-4271
EMP 300 ENG 50 OVER \$10,000K

CA J Redwine Box 3271 Thousand Oaks
CA D Casey 781 E Homestead Sunnyvale
FL J Pflueger 2161 Pine Woods Cir Naples
IN P Oldham 2346 S Lynhurst Indpls

AZIMUTH ELECTRONICS INC
2605 S EL CAMINO REAL
SAN CLEMENTE CA 92672..... 714-492-6481
R HALL EMP 13 ENG 3 \$1,000-\$2,500K

AZ J C Hasper Co Scottsdale..... 602-941-0448
NY Migrel Chappaqua..... 914-238-4961

AZONIX CORP 25 ADAMS ST
BURLINGTON MA 01803
TWX 951-695..... 617-273-5550
J ARAKI EMP 20 ENG 8 \$2,500-\$5,000K

AL SESCO Inc Birmingham..... 205-988-8304
AZ Cherry Assoc Phoenix..... 602-242-1922
CA Process Measurement Group
Lafayette..... 415-284-2023
CA HSK Inc San Diego..... 619-292-5494
CO Measurement Consultants Boulder..... 303-449-7506
CT R G Assoc Tolland..... 203-875-4201
FL SESCO Inc Palm Beach Garden..... 305-832-0770
GA SESCO Inc Atlanta..... 404-458-6423
IL Carvel Engrg & Sales Co
Hoffman Estates..... 312-885-8800

IN Tech Sales & Mktg Indpls..... 317-849-6612
KS Valvotek Inc Overland Park..... 913-831-8600
LA SESCO Inc Baton Rouge..... 504-928-4951
MA EMCO Marblehead..... 617-639-0754
MI Anderson Electronics Farmington
Hills..... 313-553-7600
MN Carvel Engrg & Sales Edina..... 612-835-7929
MO R A Behrmann St Louis..... 314-631-4400
NJ NBS Assoc Berkeley Heights..... 201-464-8500
NM Measurement Consultants
Albuquerque..... 505-526-2491

NY Seelbach & Schmitt Inc Oneida..... 716-839-2300
NY NBS Assoc Berkeley Hts..... 201-464-8500
NC SESCO Inc Cary..... 919-467-7482
OH Syntrol Cleveland..... 216-572-2848
OK SESCO Inc Tulsa..... 918-622-3868
PA Howard A Devers Monroeville..... 412-372-4000
TX SESCO Inc Houston..... 713-999-3510
UT Applied Engineering SLC..... 801-532-5343
WA S/J Corp Seattle..... 206-763-8981
WI Carvel Engrg & Sales Co Berlin..... 414-784-7007
FR Conoco de Puerto Rico Inc
San Juan..... 809-765-6969

BABCOC INC 1717 W COLLINS AVE
ORANGE CA 92667-5422
TWX 910-540-1234..... 714-633-3700
A GUDIS EMP 250 ENG 32 OVER \$10,000K

CA Horne Electro Sales Palo Alto..... 415-494-6777
CA Horstan Electronics Santa Ana..... 714-667-7826
TX Barry Sales Richardson..... 214-234-0255

BACHARACH INC 625 ALPHA DR
PITTSBURGH PA 15238
TWX 710-664-2085..... 412-963-2000
W HAUPT EMP 400

BACO CONTROLS INC 67 ALBANY ST
CAZENOVIA NY 13035
TWX 710-541-1530..... 315-655-8372
J KING EMP 15 ENG 1

AL R L Matus Assoc Birmingham..... 912-686-2367
CA Blanchard Assoc Los Angeles..... 714-680-6821
CA Wright Assoc San Rafael..... 415-457-9950
CO Intelligent Cont Devices Denver..... 303-936-5992
FL R L Matus St Petersburg..... 813-896-4133
GA R L Matus Assoc Atlanta..... 404-945-2946
IL KMG Sales Chicago..... 414-639-9055
IN Aetna Electric Evansville..... 513-871-2816
MA Zaslav Assoc Westboro..... 617-393-8150
MI W R Conrad Assoc Milford..... 313-684-6534
MN Electrotech St Paul..... 612-645-7717
NY Prime Indus Sales Paramus..... 201-262-9090
NC R L Matus Assoc Shelby..... 704-482-7786
OH Aetna Electric Cincinnati..... 513-871-2816
PA Speck Indus Sales Phila..... 609-778-8924
UT SNU Assoc Salt Lake..... 801-972-2323
WA Sentry Power Controls Richmond..... 704-535-1774
WA Quibby Enterprises Seattle..... 206-771-8190
WI KMG Sales Racine..... 414-639-9005

DISTRIBUTORS

CA Jeyco Elec Supply San Diego..... 619-276-3795
CA McMaster Carr LA..... 213-945-2811
CT Electrotech Milford..... 203-877-1241
IL Martec Elk Grove Vlg..... 312-958-8090
IL McMaster Carr Chicago..... 312-833-0300
MA Controls Plus Boston..... 617-837-8757

MI Industrial Controls Holland..... 616-396-0303
MO Control Design Sply St Louis..... 314-426-3150
NJ Feldman Bros Elect Sply Paterson..... 201-742-7330
NJ Billows Electric Supply
Haddon Hts..... 609-546-7700
NJ McMaster Carr New Brunswick..... 201-329-3200
NY Milklin Systems Co Syracuse..... 315-455-7924
NY Park Electric Supply Orchard Pk..... 716-662-7070
NC Phifer Supply Belmont..... 704-825-9646
OH Midwest Equip Co Cincinnati..... 513-489-2060
PA Raub Elec Supply Harrisburg..... 717-564-1711

BACON INDUSTRIES INC 192
PLEASANT ST WATERTOWN
MA 02172 TWX 710-327-6518..... 617-926-2550
C FABRIZIO EMP 23 ENG 5 \$1,000-\$2,500K

CA Bacon Ind Of Ca Irvine..... 714-863-1499

BAFCO INC 717 MEARNS RD BOX 2428
WARMINTER PA 18974
TWX 510-665-6860..... 215-674-1700
J BOONSHAFT EMP 32 ENG 7 \$2,500-\$5,000K

CA ABCO Co Torrance..... 213-831-9333
FR Louis Albert Assoc Ottawa..... 613-737-5941

BAILEY CONTROLS CO 29801
EUCLID AVE WICKLIFFE OH 44092
TWX 980621..... 216-585-8500
W SMAILIE EMP 2300 ENG 1250 OVER \$10,000K

AZ Bailey Controls..... 602-948-2952
CA Bailey Controls El Monte..... 213-283-1187
CA Bailey Controls Oakland..... 415-569-1716
CO Bailey Controls Denver..... 303-757-5408
FL Bailey Controls Jacksonville..... 904-724-7200
GA Bailey Controls Tucker..... 404-934-0212
IL Bailey Controls Lombard..... 312-968-8691
KS Bailey Controls KC..... 913-362-6093
LA Bailey Controls New Orleans..... 504-888-0761
MA Bailey Controls Framingham..... 617-237-4218
MI Bailey Controls Bloomfield Hills..... 313-334-3547
MN Bailey Controls St Paul..... 612-739-0450
MO Bailey Controls..... 314-962-5532
NJ Bailey Controls Fairfield..... 201-575-7640
NY Bailey Controls Buffalo..... 716-835-7987
NC Bailey Controls Charlotte..... 704-364-8722
OH Bailey Controls Cleveland..... 216-261-1300
PA Bailey Controls Pittsburgh..... 412-351-5470
TX Bailey Controls Houston..... 713-774-9605
UT Bailey Controls..... 801-295-5490
VA Bailey Controls Richmond..... 804-355-1037
WA Bailey Controls Seattle..... 206-575-0260

BAIRD CORP 125 MIDDLESEX TPK
BEDFORD MA 01730 TWX 6817303..... 617-276-6000
EMP 735 ENG 150 OVER \$10,000K

BAKER CO INC DRAWER E SANFORD
AIRPORT SANFORD ME 04073..... 207-324-8773
W BONNEY EMP 150 ENG 8

AL L D Kendrick Birmingham..... 205-836-9752
AR K Stephens Hot Springs..... 767-5662
CA Tegal Scientific Concord..... 827-1054
CA Applied Instr Corp Anaheim..... 535-6551
FL Priority Products Ocala..... 351-10545
GA Pete Beckman Assoc Marietta..... 404-565-1225
IL Motorol, Inc Villa Park..... 833-2700
MD Guerra Tech Sales Rockville..... 929-1444
MA Rush Assoc Waltham..... 899-9630
MN Gibbo Scientific Coon Rapids..... 786-2146
MO Gateway Scientific Clayton..... 725-3464
NJ R J Scientific Red Bank..... 800-543-3000
NY Harvey Instruments Buffalo..... 874-6694
NC Triangle Scientific Co Pinehurst..... 295-6112
OH Witt Sales Co Cincinnati..... 761-5602
PA Colcom Inc Ft Washington..... 542-0333
TX Southwest Biopack Houston..... 713-463-0149
WA Northwest Scientific Inc
Lake Stevens..... 259-0123

WV Robt M Huffman Co Charleston..... 346-9966
FR Canlab Toronto, ON..... 252-5151
FR Fisher Scientific Cayey PR..... 809-738-4231

BALANCE TECHNOLOGY INC
120 ENTERPRISE DR ANN ARBOR
MI 48103 TWX 810-223-6018..... 313-769-2100
J SANTORI EMP 90 ENG 12 \$2,500-\$5,000K

CA Schumann Equip Co LA..... 714-731-3411
IL Electronic Dyn Balancing
Hillside..... 312-544-8600
MA Terra Co Danvers..... 617-599-6424
OH R H Stockdale Sandusky..... 419-626-6602
PA Balancing & Vib Anal Co York..... 215-849-8722

DISTRIBUTORS

IL H J Weber Co Oakbrook Terr..... 312-932-7676

BAL CORP WILLIAM 947 NEWARK
AVE BOX 875 ELIZABETH
NJ 07207 TWX 833-231..... 201-354-9625
G WILSON EMP 75 \$1,000-\$2,500K

BALLANTINE LABORATORIES INC
BOX 97 BOONTON NJ 07005
TWX 710-987-8380..... 201-335-0900
R STAGNOL EMP 98 ENG 9 \$5,000-\$10,000K

AZ Fry-Gates Inc Tempe..... 714-830-4856
CA Elotek Systems Laguna Hills..... 408-945-5920
CA IFM Inc Milpitas..... 303-286-1414
CO MC2 Consultants & Controls
Commerce City..... 303-621-3492
CT Scheinfelt Assoc Plantsville..... 303-299-6508
FL Micro Spec Inc Orlando..... 404-921-3840
GA Micro Spec Inc Lilburn..... 312-394-3380
IL Dytec/Central Arlington Hts..... 317-247-1316
IN Dytec/Central Indpls..... 617-944-2304
MA Scheinfelt Assoc Reading..... 313-588-2300
MI WKM Assoc Madison Hts..... 314-991-1399
MO Marsland Assoc St Louis..... 201-797-0441
NJ L & M Assoc Elmwood Park..... 505-262-1525
NM Fry-Gates Inc Albuquerque..... 505-262-1525

NY L & M Assoc New York..... 212-243-6151
NY Mamula Sales Canandaigua..... 716-394-5566
OH Cleary Sales Vandalia..... 513-890-8864
OH WKM Assoc Dayton..... 513-434-7500
OH WKM Assoc Independence..... 216-524-5933
OR Weston Inc Portland..... 503-283-0193
PA L & M Assoc Andalusia..... 215-245-6655
PA L & M Assoc Reading..... 215-775-9551
SC Micro Spec Inc Rock Hill..... 803-366-3011
TN Micro Spec Inc Nashville..... 615-383-4061
TX Data Marketing San Antonio..... 512-828-5744
TX Lear Assoc Richardson..... 214-231-5388
TX Lear Assoc Houston..... 713-488-7899
UT MC2 Consultants & Controls SLC..... 801-364-3171
VA Dyna Rep Alexandria..... 703-354-1222
WA Weston Inc Woodinville..... 206-478-9891
WI Dytec/Central Elm Grove..... 414-784-9191
FR Technatronics Instruments
St Laurent PQ..... 514-335-7600

DISTRIBUTORS

CA Tekcom Inc Huntington Bch..... 714-968-1241
IL Pacific Indicator Co Oak Park..... 312-383-0222
NJ RAG Entrys Eatontown..... 201-544-0666
OH NIDI Dayton..... 513-435-4500
TN McLemore Assoc Bellevue..... 615-646-0063

BALL AEROSPACE SYSTEMS DIV
BOULDER IND PK, BOX 1062
BOULDER CO 80306
TWX 910-940-3241..... 303-939-4000
G SAYRE EMP 2200 ENG 800 OVER \$10,000K

CA Ball Aerospace Sys Huntington
Bch..... 714-895-2251
CA Efratom Irvine..... 714-752-2899
VA Ball Aerospace Sys Arlington..... 703-521-1150

BALL ELECTRONIC SYSTEMS DIV
BOX 589 BROOMFIELD CO 80020
TWX 45776..... 303-460-5266
R SCARLE EMP 225 ENG 37

CA Ball Elctn Sys Upland..... 714-981-9400
IL Ball Elctn Sys Downers Grove..... 312-960-4432
NH Ball Elctn Sys Salem..... 603-893-3053
NJ Ball Elctn Sys Ocean..... 201-922-2800

BALO PRECISION PARTS INC
530 COMMERCE ST FRANKLIN
LAKES NJ 07417..... 201-337-2011
E RAPOZA EMP 115 ENG 5 \$2,500-\$5,000K

BAL SEAL ENGINEERING CO
620 W WARNER SANTA ANA
CA 92707..... 714-557-5191
J BARTHELD EMP 31 ENG 6

BALSTON INC 703 MASSACHUSETTS
AV BOX C LEXINGTON MA 02173
TWX 32-3481..... 617-861-7241
J ALPERT EMP 60 ENG 6 \$5,000-\$10,000K

CA Brenner-Fiedler & Assoc Cerritos..... 415-326-9333
CA Priz Co Palo Alto..... 415-326-9333
CO Webster Assoc Englewood
Industrial Comps Winter Pk..... 305-647-4251
FL Albert Stanley Co Skokie..... 312-674-3377
IN George Booth Co Indpls..... 317-271-9226
MD Jobs & Co Baltimore..... 301-327-0222
MI Mich Valve & Fitting Co Detroit..... 313-884-9411
MN Voico Co Mnpls..... 616-353-8501
MO Quality Indus Prods Raytown..... 201-467-1211
NJ RJM Sales Springfield..... 716-381-1115
NY R L Stone Co Rochester..... 513-434-8119
OH Summit Indus Kettering..... 918-664-7511
OK M & D Controls Tulsa..... 713-473-2899
TN VRC Equip Co Memphis..... 416-277-4544
TX Tech Quip Pasadena..... 416-277-4544
FR Can/Am Instr Ltd Mississauga ON..... 416-277-4544

BALZERS OPTICAL GROUP 170
LOCKE DR MARLBOROUGH MA 01752
TWX 556-480..... 617-481-9886
EMP 150 ENG 15 \$5,000-\$10,000K

BALZERS PLASMA DIV 8 SAGAMORE
PARK RD HUDSON NJ 03051
TWX 710-228-7431..... 603-889-6881
B CRAWFORD EMP 150 ENG 40 OVER \$10,000K

CA Balzers Plasma Fremont..... 415-651-3301
IL Balzers Plasma Arlington..... 312-259-6880
NY Balzers Plasma Hopewell Jct..... 914-221-3211

BANNER ENGINEERING CORP
9714 10 AVE N MINNEAPOLIS
MN 55441..... 612-544-3164
F SCHNEIDER EMP 250 ENG 5 OVER \$10,000K

CA Powermatic Assoc Oakland..... 415-635-6821
CO Technical Mktg & Mfg Lakewood..... 303-232-1514
CT Techmark Corp Cheshire..... 203-272-3551
FL Hlico Inc Davenport..... 813-422-3901
IL MacGregor & Co Lombard..... 312-629-5751
IN C & E Sales Inc Kokomo..... 513-434-8831
MA J F Shaw Co Wilmington..... 617-658-2551
MI Louis Schimp & Assoc Vicksburg..... 616-649-1332
MN Craighard & Assoc St Paul..... 612-645-0778
MO Power-Tronics Inc Manchester..... 314-394-5548
NM Technical Mktg & Mfg Albuquerque..... 505-298-6891
NY Kom Lamb Inc Buffalo..... 716-874-3531
NC Hlico Inc Charlotte..... 704-568-3931
OH Motion Control Comp Broadview
Hts..... 216-526-6511
PA Miller & Dietz Co Frazer..... 215-647-7377
SC Hlico Inc Mt Pleasant..... 803-883-9638
TN Hicks Sales Agency Memphis..... 901-396-5721
TX Automatic Systems Dallas..... 214-688-1811
UT Technical Mktg & Mfg Inc SLC..... 801-487-7671
FR Ash Ventures Ltd Duvernay
Laval PQ..... 514-661-1271
FR R G Shelley Ltd Don Mills ON..... 416-447-6471
FR Landel Controls Ltd Calgary AB..... 403-250-3551

DISTRIBUTORS		
CA	Minarik Elec LA	213-624-3161
CA	Power Transmission Spec Hawthorne	213-779-9004
CT	New England Drives & Controls Ridgefield	203-438-0884
GA	Waffle's Elec of GA Smyrna	404-433-8377
GA	Witherbee Elec Sply Albany	912-883-2034
LA	Relly Elec Sply New Orleans	504-897-2211
MA	Electro Mech Dist Norwell	617-826-9714
MI	Kendall Elec Battle Creek	616-963-5585
MJ	Power/mation Div St Paul	612-645-0781
NN	MacPherson Control Prod Westfield	201-233-4010
NC	Motion Control Syst Inc Greensboro	919-272-4181
OH	Adcon Eng Co Cleveland	216-238-3916

BARBER-COLMAN CO MOTOR DIV		
BOX 2940 LOVES PARK IL 61132		
CA	TXW 4330367	815-968-0660
W ROHM EMP 5000 ENG 100		
AL	MAher Assoc Huntsville	205-859-2869
AR	Electro-Related Products Fort Smith	501-452-4030
CA	Sierra Ind Eng Co LA	213-624-3123
CA	Motion Control Inc San Jose	408-997-0544
CO	Todd & Fry Assoc Longmont	303-776-7331
CT	MAher South Windsor	203-644-2481
FL	Tech-Rep Assoc Clearwater	813-530-1619
IL	Lenhart Assoc Northfield	312-446-7460
IN	Menze Sales Fort Wayne	219-747-5616
IA	Jos-Co/Mellus Inc Des Moines	515-277-8597
MA	MAher Assoc Lynn	617-581-3244
MA	Jos-Co/Mellus Inc Mpls	612-861-3343
NJ	MAher Assoc Hackensack	201-343-9278
NY	Robt Lamb Co Rochester	716-323-1270
NC	MAher Assoc Fairview	704-628-2191
OR	D H S Sales Portland	503-285-9790
PA	Edwin Leiby & Assoc Huntingdon Valley	215-659-8938
SC	MAher Assoc Greenville	803-877-9088
TX	J B Guenther Inc Dallas	214-691-8500
WI	Badgerop Inc Milwaukee	414-258-6630

DISTRIBUTORS		
CA	Minarik Elec Co LA	213-624-3161
CA	Minarik Elec Co Santa Clara	408-727-0575
CA	Minarik Elec Co San Diego	619-560-6632
CA	Minarik Elec Co Los Angeles	213-624-3161
MA	Electro Sales Somerville	617-666-0500
OR	Minarik Elec Co Portland	503-253-3402
TX	Minarik Elec Co San Antonio	512-822-7097

BARCO CHEMICAL PRODUCTS INC		
327 S LASALLE ST CHICAGO		
IL 60604		
CA	R BAREWIN EMP 12 ENG 2 \$250-\$500K	312-427-2916
ARIUM AND CHEMICALS INC BOX 218		
STUEBENVILLE OH 43952		
CA	D NAYLOR EMP 55 ENG 6	614-282-9776

BARKER & WILLIAMSON 10 CANAL ST		
BRISTOL PA 19007		
CA	TXW 510-667-0587	215-788-5581
E BUSH EMP 58 ENG 2 \$1,000-\$2,500K		

DISTRIBUTORS		
CA	Henry Radio Inc LA	213-272-0861
FL	N & G Dist Corp Miami	800-327-7326
NH	Radio Kit Mason	603-878-1033
VA	Electronic Equip Bank Vienna	703-938-3330
VA	EGE Inc Woodbridge	800-336-4799
WI	Amateur Elect Sply Milwaukee	414-442-4200

BARNES ENGINEERING CO 1645		
S CLAUDINA WAY ANAHEIM		
CA 92805		
CA	W BALCH EMP 42 ENG 3 \$2,500-\$5,000K	714-533-7530

BARNES ENGINEERING CO 44		
COMMERCE RD BOX 53 STAMFORD		
CT 06904 TWX 710-474 3367		
CA	H HOFMANN EMP 300 ENG 200 OVER \$10,000K	203-348-5381

BARNSTEAD CO INDUSTRIAL PRODS DIV		
225 RIVERMOOR ST BOSTON		
MA 02132 TWX 094-556		
CA	H COPEK EMP 250 ENG 20 OVER \$10,000K	617-327-1600

BARON-BLAKESLEE INC SUB		
PUREX IND INC 2001 N		
JANICE AVE MELROSE PARK		
IL 60160 TWX 25-4701		
CA	EMP 300 ENG 15 OVER \$10,000K	312-450-3900

BARRETT CENTRIFUGALS 1472		
GRAFTON RD WORCESTER MA 01613		
CA	G GARDNER EMP 29 ENG 2 \$1,000-\$2,500K	617-755-4306

BARRETT ELECTRONICS CORP		
630 DUNDEE RD NORTHBROOK		
IL 60062 TWX 910-686-0007		
CA	J PAWULA EMP 210 ENG 12 OVER \$10,000K	312-272-2300

BARRON MFG CORP 4160 GROVE AVE		
GURNEE IL 60031		
CA	J BERNSTEIN EMP 25 ENG 1 \$500-\$1,000K	312-249-4200

BARRY CONTROLS UNIT BARRY		
WRIGHT CORP 700 PLEASANT ST		
WATERTOWN MA 02172		
CA	TXW 710-327-1290	617-923-1150
P LITTLEWOOD EMP 370 ENG 45 OVER \$10,000K		

BARTH ELECTRONICS 1300		
WYOMING ST BOULDER CITY		
NV 89005		
CA	J BARTH EMP 7 ENG 2 \$250-\$500K	702-293-1576

BARTLETT INSTRUMENT CO BOX 445		
FORT MADISON IA 52627		
D BARTLETT EMP 15 ENG 2 \$100-\$250K		
CT	MacPherson Conner Assoc New City NY	914-638-1775
FL	Electronic Devices & Controls Ft Lauderdale	305-974-2500
MI	Clas-Vendal Assoc Dearborn Hts	313-274-4959
PA	W E Girard Glenside	215-887-4411

BARTLETT MFG CO INC 70 N KING ST		
ELK GROVE VILLAGE IL 60007		
T BARTLETT EMP 95 ENG 4 \$2,500-\$5,000K		
CA	RD Sales Corp Woodland Hills	213-348-3766
FL	Cartwright & Bean Orlando	305-422-4531
GA	Cartwright & Bean Atlanta	404-255-5262
IL	C L Greenslade Sales Arlington Hts	312-253-9620
IN	Needler Sales Co Indpls	317-255-8056
IA	SPS Assoc West Des Moines	515-225-8788
KS	SPS Assoc Olathe	913-764-4460
MI	C B Jensen & Assoc Troy	313-643-0506
MN	Murnco St Paul	612-484-8200
NE	SPS Assoc Panama	402-788-2703
NE	Oxford Sales Co Hampton Falls	603-926-7355
NH	Peterson-Rudnick Assoc West Caldwell	201-226-4363
NY	Peterson-Rudnick Assoc Bronx	212-671-1923
NY	R P Kennedy Co Rochester	716-271-6322
NC	Cartwright & Bean Charlotte	704-377-5673
TN	Cartwright & Bean Memphis	901-276-4442
TX	Geo Weinreich Assoc Dallas	214-321-2800
WI	Erdman Sales Co Milwaukee	414-543-1930

BARTON MINES CORP NORTH CREEK		
NY 12853		
CA	J NASH EMP 125 ENG 3	518-251-2296

BASCOM-TURNER INSTRUMENTS		
111 DOWNEY ST NORWOOD		
MA 02062 TWX 92-2413		
CA	D WEISE EMP 50 ENG 10 \$1,000-\$2,500K	800-225-3298

BASE TEN SYSTEMS INC 1		
ELECTRONICS DR, BOX 3151		
TRENTON NJ 08619		
CA	TXW 510-685-5692	609-586-7010
O PAVLOVSKI EMP 350 ENG 40 OVER \$10,000K		
CA	Base Ten Mktg W Cucamonga	714-980-8470
GA	Kemp Eng Co Atlanta	404-452-5080
TX	Kemp Eng Box 172 Addison	214-661-0400

BASIC ELECTRONICS MFG CORP		
108 W ROLLINS ROUND		
LAKE BEACH IL 60073		
CA	T BICKNER EMP 85 ENG 5 \$5,000-\$10,000K	312-546-8251
WI	JBH Sales Assoc Franklin	414-529-4781

BASIC MEASURING INSTRUMENTS		
402 LINCOLN CENTRE DR		
FOSTER CITY CA 94404		
CA	TXW 910-374-3059	415-570-5355
R MOORE EMP 28 ENG 6 \$2,500-\$5,000K		
CO	Trembley Assoc Lakewood	303-233-9544
IL	Bob Burns & Assoc Parkridge	312-823-9360
IN	Berndt Assoc Mpls	612-546-2021
NH	Power Conversion Sys Londonderry	603-434-2371
NJ	Hansen & Hughes Franklin Lakes	201-848-8900
PA	J E Cuesta King of Prussia	215-265-5800
WA	Underwood-Hanly Bellevue	206-451-8223

BASLER ELECTRIC CO RTE		
143 BOX 269 HIGHLAND		
IL 62249 TWX 910-996-2522		
CA	D GINTHER EMP 1257 ENG 84 OVER \$10,000K	618-654-2341
ADV PGS 359,361,497		

AL	Electromech Sales Eng Huntsville	205-533-2100
AZ	Mercury Engineering Phoenix	602-244-0123
AR	Weisler & Assoc Ballwin	314-394-4543
CA	Abbott Engrg Redwood City	415-369-1944
CA	O'Donnell Assoc Torrance	213-539-9664
CO	Harthun Assoc Englewood	303-792-5050
CT	R F Duffy Assoc Orange	203-795-3678
FL	Electro Comp Deerfield Beach	305-429-0802
GA	Electro Mech Sales Eng Co Norcross	404-447-6478

IL	H Sam Tollaksen Northfield	312-441-6644
IN	J P Woods & Assoc Hillsboro, OH	513-393-9582
IA	Weisler & Assoc Bettendorf	319-344-0566
KS	H J Weisler & Assoc N Kansas City Mo	816-421-1679
KY	J P Woods & Assoc Hillsboro	513-393-9582
LA	Weisler & Assoc Houston	713-467-1847
MD	Faion Lott & Co Glen Burnie	301 744-4611
MA	R F Duffy Assoc Braintree	617-848-3550
MI	J P Woods & Assoc Hillsboro OH	513-393-9582
MN	Arko Inc St Paul	612-777-7454
MO	Harlan J Weisler & Assoc Ballwin	314-394-4543
NJ	L H Walke Co Cherry Hill	609-424-3766
NY	Aero Sales Co Memphis	315-689-6730
NY	Seidel Assoc 113 Ursula Dr Roslyn	516-621-1117

NC	Electro Mech Sales Eng Raleigh	919-851-8165
OH	Arthur H Baier Co & Assoc Cleveland	216-461-6161
OK	Lynn Elliott Co Tulsa	918-252-5795
PA	Gormley Electric Pittsburgh	412-795-8010
TN	Electro Mech Sales Eng Jonesboro	615-753-2964
TX	William Reese Assoc Dallas	214-351-0703
UT	Harthun Assoc Englewood CO	303-792-5050
WA	Temco NW Bothell	206-821-5434
FR	Wilson Sales Mississauga ON	416-677-8200
FR	Klamco Elctns Rio Piedras PR	809-752-6225

BATTERY SPECIALTIES 1940		
FREEMAN AVE LONG BEACH		
CA 90804		
CA	D KANEN EMP 15 ENG 2	213-437-1809
ADV PG 31		

BAUSCH & LOMB OPTICAL SYSTEMS DIV		
1400 N GOODMAN ST ROCHESTER		
NY 14692 TWX 510-253-6189		
CA	OVER \$10,000K	716-338-6000

BAY COMPONENTS INC 1806		
DREAMS LANDING WAY BOX 6638		
ANNAPOLIS MD 21401		
CA		301-266-6767

BAY LABS DIV TEGAM INC		
7230 N RIDGE RD MADISON		
OH 44057		
CA	T GAMBILL EMP 25 ENG 2 \$500-\$1,000K	216-428-7505

BAYLEY INSTRUMENT CO BOX 357		
KENWOOD CA 95452		
CA	L BAYLEY EMP 10 ENG 2	707-833-6014

BAY PRODUCTS DIV AMER METAL		
WKS INC 8701 TORRESDALE AVE		
PHILADELPHIA PA 19136		
CA	TXW 834-434	215-338-7300
F STEWART EMP 225 ENG 2 OVER \$10,000K		

DISTRIBUTORS		
CA	Jas A Old & Son San Carlos	415-595-1900
CA	Universal Storage Sys	213-285-2291
FL	Storage Concepts Inc	305-339-5830
GA	Atlanta Bin & Shelving	404-448-5166
MA	Danforth Corp Woburn	617-939-2773
NY	Pallet Sales Corp Plainview	516-349-8000
OR	Material Flow & Storage Portland	503-285-2517
PA	Techni-Tool Plymouth Mtg	215-825-4990

BAYSIDE CONTROLS 16 KINGS LAND		
AVE CLIFTON NJ 07014		
CA	G DOROTHEA EMP 8 ENG 2 \$100-\$250K	201-778-6611

BAY TECHNICAL ASSOCIATES INC		
HWY 603 BOX 387 BAY ST LOUIS		
MS 39520 TWX 910-333-1618		
CA	EMP 25 ENG 5	601-467-8231

BBC METRAWATT/GOERZ 2150 W 6 AVE		
BROOMFIELD CO 80020		
CA	TXW 49-70869	303-469-5231

B & B MOTOR & CONTROL CORP		
APPLE HILL COMMONS BURLINGTON		
CT 06013.....	718-784-131	

MA Contact East Burlington.....617-272-5051
 NH EPE Corp Manchester.....603-669-9181
 TX Roy E Davis Co Dallas.....214-653-1041

BEAVER LABS COMPUTER UPS DIV
 BOX 202 KINGSTON MA 02364.....617-585-5666

BECKMAN INDUSTRIAL CORP
 4141 PALM ST BREA CA 92634
 TWX 910 592 1260.....714-871-4848
 EMP 21000 OVER \$10,000K

BEHLMAN ENGINEERING 1142
 MARK AVE CARPINTERIA CA 93013.....805-684-8311
 D LORELIE

AL Reynolds & Assoc Huntsville.....305-259-7000
 AZ J Smith & Assoc Phoenix.....602-267-0981
 CA T Louis Snitzer Co L A.....213-836-6170
 CA T Louis Snitzer Co Cupertino.....408-257-8333
 CO J Smith & Assoc Colo Springs.....303-597-5343
 FL Reynolds & Assoc Melbourne.....305-259-7000
 IL Ed Joyner & Co Wheeling.....312-520-1200
 IN R & D Elctns Noblesville.....317-849-2026
 KS Engineering Svcs Co Independence
 MO.....816-254-3600
 MD Farrell Assoc Rockville.....301-424-9460
 MA Addeco Corp Needham.....617-444-4754
 MI Carter McCormick & Peirce
 Farmington Hills.....313-477-7700
 MN Dytec North St Paul.....612-645-5816
 MO Engineering Svcs Co St Louis.....314-997-1515
 NM J Smith & Assoc Albuquerque.....505-265-3406
 NY Industrious Assoc Great Neck.....516-487-2620
 NC Reynolds & Assoc Raleigh.....305-259-7000
 OH Carter McCormick & Peirce
 Cleveland.....216-779-5100
 OK Testech Inc Tulsa.....918-665-7788
 PA Carter McCormick & Peirce
 Pittsburgh.....412-372-4415
 TX Testech Inc Austin.....512-327-7033
 WA Datacom Assoc Seattle.....206-285-2525
 FR Atelco Inc Scarborough ON.....416-497-2208

BEI MOTION SYSTEMS CO 2111
 PALOMAR AIRPORT RD CARLSBAD
 CA 92008 TWX 910-722-7384.....619-931-1500
 EMP 200 ENG 45 OVER \$10,000K
 ADV PGS 176,177

CA R Wells Santa Ana.....714-973-8510
 CA S Cousley Santa Clara.....408-986-9006
 CA R Neumann Santa Ana.....714-973-8510
 CO R Harris Westminster.....303-426-1566
 GA D Sceviour Lilburn.....404-923-9213
 IL G Kordash Rockford.....815-968-9528
 MA P Roach Wakefield.....617-245-3851
 MI P Larouche Plymouth.....313-451-0359
 OH F Winder Cincinnati.....513-232-4545
 OR Thorson Co Beaverton.....503-644-5900
 PA R Kemp Exton.....215-363-5444
 TX B Edmister Hurst.....817-284-4313
 WA Thorson Co Bellevue.....206-455-9180

BEI MOTION SYS CO COMPUTER
 PRODUCTS DIV 1755E LA
 COSTA MEADOWS DR SAN MARCOS
 CA 92069 TWX 910-333-4534.....619-471-2600
 N MCCULLOUGH
 ADV PGS 176,177

BEI MOTION SYS CO DIGITAL
 PRODUCTS DIV BOX 3838
 LITTLE ROCK AR 72203
 TWX 910-722-7384.....501-851-4000
 ADV PGS 176,177

BEI MOTION SYS CO INDUSTRIAL
 ENCODER DIV 7230 HOLLISTER AVE
 GOLETA CA 93117.....805-968-0782
 ADV PGS 176,177

BEI MOTION SYS CO KIMCO DIV
 150 VALLECITOS DE ORO BOX 1626
 SAN MARCOS CA 92069
 TWX 910-322-1168.....619-744-5671
 W BLACK EMP 50 ENG 5 \$1,000-\$2,500K
 ADV PGS 176,177

CA Thorson Co Cal Signal Hill.....213-595-0361
 CA S Lousley Santa Clara.....408-986-9006
 CO R Harris Westminster.....303-426-1566
 GA D Sceviour Lilburn.....404-923-9213
 IL G Kordash Rockford.....815-968-9528
 MA Vanguard Elctns Needham Hts.....617-449-5578
 MA P Roach Wakefield.....617-245-3851
 MI P Larouche Plymouth.....313-451-0359
 OH F Winder Cincinnati.....513-232-4545
 OR Thorson Northwest Beaverton.....503-644-5900
 PA R Kemp Exton.....215-363-5444
 TX B Edmister Hurst.....817-284-4313
 WA Thorson Northwest Bellevue.....206-455-9180
 FR Willer Engrg Ltd Willowdale ON.....416-499-4421
 FR Willer Engrg Ltd St-Laurent PQ.....514-333-8555

BEI MOTION SYS CO POSITION
 CONTROLS DIV 819 REDDICK AVE
 SANTA BARBARA CA 93103
 TWX 910-334-4903.....805-966-1538
 ADV PGS 176,177

BELDEN ELECTRONIC WIRE & CABLE
 BOX 1980 RICHMOND IN 47375
 TWX 810-345-1393.....317-983-5200
 B DONAHUE EMP 4275 OVER \$10,000K

CA Belden Irvine.....714-474-1200
 GA Belden Atlanta.....404-934-6767
 IL Belden Oak Brook.....312-789-0800
 MA Belden Framingham.....617-872-7846
 TX Belden Dallas.....214-788-4300

BELFAB DIV PACIFIC SCIENTIFIC INC
 BOX 9370 DAYTONA BEACH
 FL 32020 TWX 56-4355.....904-253-0628
 R RHEIN EMP 130 ENG 8

BELFORT INSTRUMENT CO 727
 S WOLFE ST BALTIMORE MD 21231
 TWX 87528.....301-342-2626
 S STERN EMP 180 ENG 5 OVER \$10,000K

BEL FUSE INC 198B VAN VORST ST
 JERSEY CITY NJ 07302
 TWX 710-730-5301.....201-432-0463
 S RADER EMP 150 ENG 10 OVER \$10,000K
 ADV PGS 154-156

AL Beacon Electronics Huntsville.....205-881-5031
 AZ SMS & Assoc Scottsdale.....602-998-0831
 CA Cirolia Elctn Sales Escondido.....619-743-3015
 CA Corcoran Assoc LA.....213-823-4589
 CA J Heaton & Co Redwood City.....415-367-9000
 CA W W Posey Co Sunnyvale.....408-746-0771
 CO Front Range Mktg Boulder.....303-443-4780
 CT L J M Assoc Branford.....203-488-4244
 FL Semitronic Assoc Altamonte Sprgs.....305-831-8233
 FL Beacon Electronics Maitland.....404-256-9640
 GA MGA Chicago.....312-775-1151
 IN Insul Repts Inc Indpls.....317-842-5203
 MN Northport Engineering So St Paul.....612-457-8000
 MO REPS Collinsville.....618-345-1808
 NH David A Crowley & Assoc Milford.....603-673-7050
 NJ Winch Sales Assoc E Brunswick.....201-828-4615
 NM Syntech Albuquerque.....505-266-7951
 NY Kahgan Sales Hempstead.....516-538-2300
 NY Tri-Tech Elctns Fayetteville.....315-446-2881
 NY Tri-Tech Elctns East Rochester.....716-385-6500
 NC Beacon Electronics Raleigh.....919-787-0330
 OH Jim Finnegan & Co Cleveland.....216-238-5905
 OH J C Hofstetter Co Medina.....216-241-4880
 OR A/D Electronics Portland.....503-641-6469
 PA M Friedman & Assoc Bala Cynwyd.....215-667-1838
 PA Check Assoc Philadelphia.....215-487-3007
 TN Insul Repts Knoxville.....615-691-7586
 TX Oeler & Melanides Dallas.....214-361-8876
 UT Front Range Mktg SLC.....801-364-8471
 WA A/D Electronics Kirkland.....206-821-3205
 FR Cantronic Ltd Scarborough ON.....416-297-8668
 FR M Anderson Co Inc Hato Rey PR.....809-751-2026

DISTRIBUTORS
 AL CDI Huntsville.....205-883-7501
 CA Ital Elect City of Industry.....818-988-8515
 CA Kea Elect Hayward.....415-887-2900
 CA Force Elect El Segundo.....213-772-1324
 CA Deco Anaheim.....714-630-8252
 CA Force Elect San Jose.....408-943-1324
 CA Pyramid Santa Clara.....408-727-9810
 CA Sigma San Diego.....619-565-2000
 CA West Valley Indus Chatsworth.....818-700-0700
 CT Cobra Components Norwalk.....203-847-6442
 FL D & R Assoc Boca Raton.....305-395-2341
 FL CDI Ft Lauderdale.....305-971-1950
 GA CDI Norcross.....404-441-3320
 IN MAR Electronics Indpls.....317-875-4510
 IA Deco Electronics Cedar Rapids.....319-365-7551
 MD D-K Electronics Columbia.....301-995-1950
 MA Electronic Packaging Co Woburn.....617-821-2111
 MA Hardware Specialty Marlboro.....617-481-8622
 MN Chris Elect New Brighton.....612-631-2647
 MO Finnigan Elect St Charles.....314-946-6201
 NH C & H Elect Hudson.....603-882-1133
 NJ KEFCO No Bergen.....201-869-7777
 NY Key Components Bohemia.....516-567-7500
 NC CDI Raleigh.....919-834-9465
 OR Component Resources Beaverton.....503-641-8488
 PA Seneca Elect Lyndora.....412-285-8544
 TX Fuses Inc Dallas.....214-341-6407
 VA CDI Falls Church.....703-241-8227
 WA Pyramid Kent.....206-872-5800
 FR Carsten Elect Scarborough ON.....416-495-7705
 FR Future Elect Pointe Claire PQ.....514-684-7710

BELL AEROSPACE TEXTRON DIV BOX 1
 BUFFALO NY 14240
 TWX 710-524-1663.....716-297-1000
 H NEESON EMP 1100 ENG 780 OVER \$10,000K
 CA D Abel San Bernardino.....714-381-3465
 DC E Deslauriers Washington.....202-289-5833

BELL CO INC 106 MORROW AV BOX 92
 TRUSSVILLE AL 35173.....205-655-2135
 R HOLLOWAY EMP 20 ENG 3 \$500-\$1,000K

BELL INC FLOYD 897 HIGGS AVE
 COLUMBUS OH 43212
 TWX 810-482-1763.....614-488-3193

BELL INC F W 6120 HANGING
 MOSS RD ORLANDO FL 32807
 TWX 810-853-3115.....305-678-6900
 E WILUSH EMP 130 ENG 10

CA Maxim Elctn Sales Milpitas.....408-946-6000
 CO Moss Mktg Denver.....303-455-7205
 FL Par Assoc Indian Rocks Bch.....813-596-8844
 GA Par Assoc Atlanta.....404-391-9111
 IL Splon Assoc Downers Grove.....312-963-7011
 MA Shain Assoc Needham.....617-449-4380
 MI Dave Ray & Assoc Royal Oak.....313-280-0000
 NM Moss Mktg Albuquerque.....505-292-7505
 NY Cane Tech Sales White Plains.....914-694-2940
 PA Tyler Griffin Co Paoli.....215-644-7710
 TX Seaton Corp Carrollton.....214-380-0400

DISTRIBUTORS
 AZ Jensen Tools & Alloys Phoenix.....602-986-6233
 TX Quality Inst Lab Houston.....713-524-0528

BELL INDUSTRIES J W MILLER DIV
 19070 REYES AV BOX 5825
 RANCHO DOMINGUEZ CA 90224
 TWX 910-346-6740.....213-537-5200
 J JOHNSON EMP 55 ENG 2 \$2,500-\$5,000K

AZ More Sales Phoenix.....602-274-4555
 AR S L Welch & Assoc Little Rock.....501-455-2199
 CA Logan Sales Co Santa Clara.....408-946-0660
 CO Wm J Purdy Co Denver.....303-753-6800
 FL Hutto-Hawkins-Peregoy Maitland.....305-831-2470
 GA Millar Elctns Atlanta.....404-261-6166
 IL Ken Levy & Assoc Ltd Chicago.....312-763-5000
 IN Electronic Repts Indpls.....317-894-1414
 LA S L Welch & Assoc Metairie.....504-888-9731
 MA W A Hendrickson Co N Scituate.....617-545-0852
 MI Jack M Thorpe Co E Detroit.....313-779-6363
 MN Electro Mark Inc Eden Prairie.....612-944-5850
 MS S L Welch & Assoc Inc Jackson.....601-932-5533
 MO M Taraski Sales Co Raytown.....816-136-1444
 NJ Baum & Epstein Assoc Englewood.....201-569-7600
 NM Wm J Purdy Co Albuquerque.....505-266-7951
 NY Pi-Tronics Inc Syracuse.....315-455-7348
 NC Millar Elctns Raleigh.....919-787-9587
 OH Thos Shelby & Co St Marys.....419-394-3377
 OR Earl & Brown Co Portland.....503-245-2281
 PA DVS Co Washington Crossing.....215-493-4644
 TX Chet Wells & Co Ft Worth.....817-284-2626
 WA Earl & Brown Inc Seattle.....206-284-1112
 FR Roburn Agencies Inc NYC.....212-989-5939

DISTRIBUTORS
 AZ Bell Industries Tempe.....602-966-7800
 AZ Circuit Specialists Tempe.....602-966-0676
 CA Abacus Electronics Mt View.....415-961-1501
 CA Bell Industries Sunnyvale.....408-734-8570
 CA Cypress Electronics San Jose.....408-945-8400
 CA Quement Electronics San Jose.....408-998-5900
 CA Zack Electronics Palo Alto.....415-326-4343
 CA Bell Industries San Diego.....619-268-1277
 CA Electronic Supply Riverside.....714-683-7300
 CA RPS Electronics Buena Park.....714-521-5231
 CA Bell Industries Garden Grove.....714-220-0806
 CA Bell Industries Gardena.....213-515-1801
 CA Bell Industries Thousand Oaks.....805-499-6621
 CO Bell Industries Denver.....303-424-1981
 CO Ragon Elect Parts Denver.....303-744-3601
 CT Pilgrim Electronics Danbury.....203-792-7227
 CT Sager Elec Supply Wallingford.....203-265-4600
 CT Greene-Shaw Co New Haven.....203-397-0711
 FL Nurmi Electronics W Palm Beach.....305-686-8551
 IL Bell Industries Chicago.....312-640-1919
 IL Newark Electronics Chicago.....312-784-5101
 IL OHM/ Electronics Palatine.....312-359-5550
 IN Graham Electronics Fort Wayne.....219-423-3422
 IN Graham Electronics Indpls.....317-834-8220
 IN Meunier Elect Sply Indpls.....317-635-3551
 IA Bell Industries Cedar Rapids.....319-395-0731
 LA Wm B Allen Supply New Orleans.....504-525-8221
 MD MS Electronics Gaithersburg.....301-921-0220
 MD Greene-Shaw Company Newton.....617-769-8900
 MN Sager Elec Supply Hingham.....617-949-6900
 MN Industrial Components Mnppls.....612-831-2615
 MN Digi-Key Corp Thief River Falls.....218-681-6667
 MO Olive Electronics St Louis.....314-426-4501
 NJ State Electronic Parts
 East Hanover.....201-887-2551
 NJ General Radio Camden.....609-964-8561
 NJ Bell Industries Albuquerque.....505-292-8750
 NY Davis Electronics Hempstead.....516-483-9200
 NY Key Components Bohemia.....516-567-7500
 NY Rome Electronics Rome.....315-337-5401
 NY Summit Electronics Buffalo.....716-887-2801
 NY Summit Electronics Rochester.....716-334-8111
 NC Southeastern Electronics Raleigh.....919-828-2373
 OH Bell Industries Dayton.....513-434-8231
 OH Stotts-Friedman Co Dayton.....513-298-5551
 OH Hughes-Peters Inc Columbus.....614-294-5355
 OH Radio Inc Tulsa.....918-587-9121
 OR Bell Industries Portland.....503-241-4111
 PA P A Peters Inc Allentown.....215-434-5231
 PA PEI Genesis Phila.....215-568-7401
 PA Resco Electronics Willow Grove.....610-659-4670
 PA Left Electronics Braddock.....412-351-5001

ENGER



We have what it takes for



BELDEN

PA	Barbey Elect Reading	215-376-7451
TN	Techni-Tronics Hixson	615-842-0514
TX	Lenert Co Houston	713-225-1465
TX	TTI Inc Fort Worth	817-831-0441
TX	Wholesale Elecs Ind Div Dallas	214-824-3001
UT	Bell Industries SLC	801-972-6969
VA	Virginia Radio Charlottesville	804-296-4184
WA	Bell Industries Bellevue	206-747-1515
WI	Bell Industries Milwaukee	414-547-8879
WI	Marsh Electronics Milwaukee	414-475-6000
BELL OFRAM CORP A REYNOLD CO		
30 BLANCHARD RD BURLINGTON		
MA	01803	617-272-2100
J DIEGNAN EMP 300 ENG 15 OVER \$10,000K		
CA	Bellofram San Ramon	415-828-0283
ME	Bellofram Eliot	207-439-9446
MI	Bellofram Royal Oak	313-543-7065
NY	Bellofram Fairport	716-377-1910
NC	Bellofram Winston-Salem	919-765-0081
OH	Bellofram Dayton	513-461-3632
PA	Bellofram Newtown	215-860-1885
TX	Bellofram Bedford	817-571-6379
WI	Bellofram Hales Corners	414-425-5980

BEL-RAY CO INC BOX 526		
FARMINGDALE NJ 07727		
J CONOVER EMP 100 ENG 5 OVER \$10,000K		

BEL-TRONICS CORP 344 INTERSTATE		
RD ADDISON IL 60101		
K FLETCHER EMP 80 ENG 6 \$1,000-\$2,500K		
CA	T Prizzi Woodlawn	213-703-6901
MA	Bengal Assoc Randolph	617-961-4120

BENDIX AIR TRANSPORT AVIONICS DIV		
2100 NW 62ND ST FT LAUDERDALE		
FL 33310 TWX 510 955-9884		
R CORN EMP 1400 ENG 364		
CA	T Hitt Burbank	818-843-4600
WA	J Sharron Tukwila	206-575-4100

BENDIX CONNECTORS, AMPHENOL		
PRODUCTS SIDNEY NY 13838		
CA	Bendix Connectors Los Angeles	714-855-4454
DC	Bendix Connectors Washington	609-663-0087
FL	Bendix Connectors Orlando	305-657-5400
MO	Bendix Connectors St Louis	314-298-0399
NH	Bendix Connectors Salem	603-893-5033
NY	Bendix Connectors New York	201-288-1710
OH	Bendix Connectors Dayton	513-294-0461
PA	Bendix Connectors Philadelphia	201-288-1710
TX	Bendix Connectors Dallas	214-343-8420
WA	Bendix Connectors Seattle	206-455-2525

BENDIX CORP FLUID POWER DIV		
211 SEWARD AVE UTICA		
NY 13503 TWX 510-242-0284		
R AUERT EMP 750 ENG 72 OVER \$10,000K		

BENDIX ELECTRIC POWER DIV		
118 HWY 35 EATONTOWN		
NJ 07724 TWX 132-444		
H NADLER EMP 850 ENG 120 OVER \$10,000K		
CA	Bendix Palos Verdes Est	213-377-0170
DC	Bendix Arlington Va	703-841-1200
OH	Bendix Dayton	513-222-8002

BENTHOS INC EDGERTON DR		
NORTH FALMOUTH MA 02556		
TWX 820673		
D HOSOM EMP 62 ENG 5 \$5,000-\$10,000K		
CA	CCM Enterprises Oceanside	619-487-2871
FL	Tooltronics Zephyr Hills	813-782-7177
MD	Lindgren & Assoc Silver Spring	301-587-2479
NY	Lindgren & Assoc Centrepore	516-423-7734
TX	Hydracon Co Houston	713-932-8240

BENTLEY-HARRIS MFG CO 241		
WELSH POOL RD LIONVILLE		
PA 19353 TWX 510-663-9308		
A SLDWISCH EMP 250 ENG 12 OVER \$10,000K		

DISTRIBUTORS		
AZ	Insulectro Corp Scottsdale	602-991-2370
CA	Insulectro Corp Costa Mesa	714-957-8093
CA	Insulectro Corp Mt View	415-969-7010
CA	Insulectro Corp San Diego	216-578-9050
CO	Insulectro Corp Aurora	303-344-4451
CT	Schaal Assoc Yalesville	203-269-3779
FL	Deanco Inc Winter Park	305-671-5100
GA	Deanco Inc Marietta	404-429-0126
IL	Mega V Inc Wheaton	312-665-6214
IA	Ragon Elctns Cedar Rapids	319-373-0525
KS	Mega Co Wichita	316-684-1782
MD	Deanco Inc Gaithersburg	301-948-5444
MA	Schaal Assoc Burlington	617-272-7940
MN	Bergquist Co Mnpls	612-835-2322
MO	Mega Co Maryland Hts	314-567-3932
NJ	Dermody Assoc Sparta	201-729-6253
NY	Deanco Inc Ithaca	607-257-4444
NC	Deanco Inc Raleigh	919-851-2065
OH	Staffco Cleveland	216-331-5100
OR	Insulectro Corp Portland	503-684-1455
TX	Kent Electronics Houston	713-780-7770
VA	Deanco Inc Virginia Beach	804-499-3322
WA	Insulectro Corp Redmond	206-885-3800

WI	Mega V Inc Waukesha	414-542-7947
FR	R-Theta Inc Mississauga ON	416-890-0221
BENTON CORP 176 THORN HILL RD		
WARRENDALE PA 15086		
TWX 710-789-3831		
A BOUVIER EMP 35 ENG 4 \$500-\$1,000K		
NY	Barthel Entrps Penfield	716-377-3018
OH	Zenith Eng Sales Co Cleveland	216-431-7101

BERGEN CABLE TECHNOLOGIES INC		
BOX 1300 LODI NJ 07644		
TWX 134372		
T CARR EMP 92 ENG 2		
GA	Promark Inc Atlanta	404-393-2923
IL	Associated Mfg Reps Villa Park	312-530-7180
MI	Quest Entrps Ann Arbor	313-665-1246
OR	Allied Industrial Sales Portland	503-286-8778

BERGER LAHR CORP FITZGERALD DR		
JAFFREY NH 03452 TWX 92-8445		
S SEABAUGH EMP 200 ENG 7 OVER \$10,000K		

BERG INC WINFRED M 499 OCEAN AVE		
EAST ROCKAWAY NY 11518		
OVER \$10,000K		

BERGQUIST SWITCH 5300 EDINA		
INDUS BLVD MINNEAPOLIS		
MN 55435 TWX 910-576-2423		
L KOLON EMP 25 ENG 3		
AZ	Emerald Mesa	602-437-2102
CA	Uni-Rep Co San Diego	619-292-9001
CO	Dekonec Arvada	303-422-7023
DE	Electrotec Sales Wilmington	302-764-2189
IL	Raines & Assoc Northbrook	312-498-0890
MD	Technical Sales Elliott City	301-461-2400
MA	Sir Assoc Westford	617-692-2500
NY	Lynn Assoc Buffalo	716-631-0054
OH	Staff Co Rocky River	216-331-5100
TX	Al Hockaday & Assoc Richardson	214-231-8191
WA	Electronic Comp Sales Mercer Island	206-232-9301

BERGQUIST CO 5300 INDUSTRIAL		
BLVD MINNEAPOLIS MN 55435		
TWX 910-576-2423		
R SAVAGE EMP 125 ENG 11		
AZ	Emerald Mktg Assoc Phoenix	602-437-0551
CA	Rep Co 8341 Vickers San Diego	619-292-9001
CA	Shaw-tech Palo Alto	415-961-4775
CO	Delconec Arvada	303-422-7023
DE	Electro Tech Sales Wilmington	302-764-2189
IL	Ellinger Sales Corp Chicago	312-763-1570
IN	R L Cox Inc Ft Wayne	219-482-2446
MD	Technical Sales Elliott	301-461-2400
MA	Harman Assoc Brookline	617-232-6687
MO	R R Burton Assoc Grandview	816-763-5385
NM	Rontek Inc Albuquerque	505-299-4124
NY	L D Allen Inc N Syracuse	315-458-7470
NY	P Saffler Assoc Lynbrook	516-593-7880
OH	Staff Co Cleveland	216-331-5100
OR	Electronic Comp Sales Tigard	503-245-2342
TX	Logic 1 Richardson	214-234-0765
WA	Electronic Comp Sales Mercer Island	206-232-9301

DISTRIBUTORS		
CA	Energy Sales Mtn View	415-969-0800
CA	Southland Fasteners San Diego	619-578-6630
CA	Patane Avionics Van Nuys	213-988-4455
CO	Integrated Elect Denver	303-534-6121
GA	Electrical Insul Suppliers Atlanta	404-355-1651
NY	Addem Dist Farmingdale	516-752-9303
TX	APX Plastics Arlington	817-461-1921
WA	Murphy Elect Redmond	206-881-1234
FR	R-Theta Inc Markham ON	416-490-8051

BERING INDUSTRIES INC 1400		
FULTON PL FREMONT CA 94539		
TWX 910-379-0015		
C CHOY EMP 20 ENG 5 \$2,500-\$5,000K		

BERKELEY NUCLEONICS CORP		
1198 TENTH ST BERKELEY		
CA 94710 TWX 6771167		
E BUCHS EMP 30 ENG 6		
ADV PG 200		

All sales engineering services in the US and Canada are provided by our factory-direct sales staff. For immediate assistance please contact: Sales Department (415) 527-1121.

BERKELEY PROCESS CONTROL INC		
5327-K JACUZZI ST RICHMOND		
CA 94804		
P FISCHER EMP 10 ENG 6		
CA	Halbar Assoc Glendale	818-246-8263
CA	Cymatix San Carlos	415-592-8076

BERK-TEK INC BOX 60 RD 1		
READING PA 19607		
TWX 510-651-0511		
EMP 360 ENG 10 OVER \$10,000K		

BEROL USA-RAPIDESIGN BOX 6039		
BURBANK CA 91510		
A BLACKBURN EMP 30 ENG 4		
CT Berol USA Eagle Rd Danbury		

BERTAN ASSOCIATES INC 121		
NEW SOUTH RD HICKSVILLE		
NY 11801 TWX 510-221-2144		
H BERTAN EMP 150 ENG 15 \$5,000-\$10,000K		
ADV PG 344		

AL	Electramark Inc Huntsville	205-883-9948
AZ	Thor Engrg Phoenix	602-437-1463
CA	King-Way Assoc Encino	818-788-4124
CA	Cain-White & Co Los Altos	415-948-5533
CA	King-Way Assoc Encino	818-788-4124
CO	Herb Bass Assoc Boulder	303-530-7509
CT	Ray Perron & Co Farmington	203-673-4825
GA	Electramark Inc Norcross	404-446-7915
IL	Coombs Assoc Arlington Hts	312-439-9810
IN	Coombs Assoc Ft Wayne	219-747-4017
IA	Coombs Assoc Cedar Rapids	319-362-4116
KS	Electro Mech Assoc Kansas City	913-432-8661
MD	Beacon North Randallstown	703-591-1300
MD	Beacon North Mt Airy	703-591-1300
MD	Beacon North Pasadena	301-347-7361
MA	Ray Perron & Co Needham	617-449-6162
MI	Carter McCormick & Peirce Inc Farmington Hills	313-477-7700
MN	Electronic Inst Assoc Mnpls	612-374-5628
MO	Electro Mechanical Assoc Bridgeton	314-291-8661
NH	Ray Perron & Co Dover	603-742-2321
NM	Thorsen Desert States Albuquerque	505-293-8555
NY	NACO Elctns Corp No Syracuse	315-699-2651
OH	Geotronics Inc Cleveland	216-526-2535
OH	Geotronics Inc Trotwood	513-252-6700
OR	Showalter Instruments Portland	503-224-8487
PA	Holmes Assoc Audubon	215-666-0636
TX	Automated Motion Control Dallas	214-340-4192
UT	Herb Bass Assoc 2406 Wood Hollow Way Bountiful	801-295-7100

VA	Beacon North Sterling	703-478-2480
VA	Beacon North Forest	804-239-8486
WA	Showalter Instruments Bellevue	206-746-7970
WA	Showalter Instruments Richland	509-943-5288
WI	Coombs Assoc Milwaukee	414-351-6123
FR	Rayonics Scientific Inc Downsview ON	416-736-1600
FR	Rayonics Scientific Inc St Laurent PQ	514-335-0105
FR	Rayonics Scientific Inc Ottawa ON	613-521-8251
FR	Rayonics Scientific Inc Burnaby BC	604-293-1854

BEST ELECTRIC DIV HARRY		
LEVINSON CO 400 BOREN AVE. N		
SEATTLE WA 98109		
TWX 910-444-2154		
H LEVINSON		
CA	Straube Assoc Mt View	415-969-6060
CO	Straube Assoc Westminster	303-426-0890

BEST MFG CO 1202 N PARK AVE		
MONTROSE CO 81401		
G RALSTIN EMP 40 ENG 2 \$1,000-\$2,500K		

BEST POWER TECHNOLOGY INC		
BOX 280 NEEDEDAD WI 54646		
TWX 701934		
M PAUL EMP 85 ENG 6 \$5,000-\$10,000K		

BETATRONICS INC 7301 N.		
LINCOLN AVE. LINCOLNWOOD		
IL 60646		
H ALLEN EMP 19 ENG 3 \$500-\$1,000K		
MA	Spectrum Sales Burlington	617-273-0555
NY	Electro-Modular Sys Guilderland	518-456-2665
NY	Spectrum Sales Tuckahoe	914-793-1660
PA	SWR Assoc Newtown Sq	215-356-8550
TX	Robt Cinger Co Dallas	214-348-5266
VA	Jay Co Falls Church	703-534-7800
WV	J Hopkins Assoc Annandale	703-280-2086
FR	SSEC Montreal Que	514-481-3313

BETATRON INC 3150 PULLMAN ST		
COSTA MESA CA 92626		
TWX 910/595-1781		
M MAAT EMP 18 ENG 3 \$1,000-\$2,500K		

MI	Rathsburg Assoc Detroit	313-882-1717
MO	Electri-Rep St Louis	314-878-8209
NY	JL Sales Commack	516-462-5666
NY	JB Finnegan Pittsford	716-381-2957
NC	Glen White Assoc Raleigh	919-848-1931
OH	Makin Assoc Cincinnati	513-871-2424
OR	Quest Marketing Beaverton	503-641-7377
PA	Bresson Narberth	215-664-6460
TX	Norcom Dallas	214-231-3447

B F ELECTRONICS 415 S NARDO AVE
SOLANA BEACH CA 92075 619-755-1881
WL BLAIR EMP 7 ENG 3 UP TO \$100K

B & F INSTRUMENTS DIV FX SYS CORP
CPO BOX 1818 KINGSTON
NY 12401 TWX 4992607 914-338-0515
S HOBSON EMP 61 ENG 3 \$1,000-\$2,500K

AL	Kemp Instruments Huntsville	205-837-4304
CA	Westech Fullerton	714-680-0933
CO	R A Mayes Co Englewood	303-761-9447
CT	AMI Hamden	203-288-5288
GA	Kemp Instruments Atlanta	404-452-8050
MA	AMI Acton	617-263-2766
NM	R A Mayes Co Albuquerque	505-292-2330
NY	Tae-Rep Inc Binghamton	607-772-6952
PA	Stein Instr Corp Jenkintown	215-885-2370
VT	AMI Arlington	802-375-9537

B G ELECTRONICS INC 30 SOUTH ST
MOUNT VERNON NY 10550 914-664-5591
EMP 35 ENG 1 \$500-\$1,000K
CA Westronics Assoc San Carlos 415-592-1417
NY Andrews & Andrews Inc Huntington 516-692-8686
TX John A Green Co Dallas 214-631-7450
FR Electronics Intl Lemoynne Pa 717-232-0909

B-G INSTRUMENTS INC 5830
HELLMAN AVE BOX 67 ALTA LOMA
CA 91701 TWX 910 581-2792 714-989-4802
J BAUM
ADV PG 367
WA B-G Instruments Mead 509-238-4757

BH ELECTRONICS 12219 WOODLAKE
DR. BURNSVILLE MN 55337
TWX 62775233 612-894-9590
R LINDGREN EMP 200 ENG 10 \$5,000-\$10,000K
CA Halbar Assoc Glendale 213-246-8263
CA Halbar Assoc San Mateo 415-349-4700
MD Faion Lott & Co Glen Burnie 301-744-4611
NJ Gaffney Sales Co Osseo 612-425-5484
MN J A Maguire & Co Dunellen 201-752-8480
PA TCA Assoc Broomall 215-353-2022
TX Aid Electronics Irving 214-790-4761
WA Halbar Assoc Redmond 206-882-0990
WI TFL Assoc Cedarburg 414-377-7030

B H INDUSTRIES INC 5784
VENICE BLVD LOS ANGELES
CA 90019 213-937-4763
C ANDERSON EMP 7 ENG 1 \$500-\$1,000K
WA Al Smith Co Bellevue 206-746-6770
FR Duncan Weston Ont 416-742-4448

BHK INC 1000 S MAGNOLIA AVE
MONROVIA CA 91016 TWX 498760 213-357-9667

BICC-VERO ELECTRONICS INC
40 LINDEMAN DR TRUMBULL
CT 06611 TWX 510-227-8890 203-372-0038
M HUMPHREY EMP 50 ENG 4 \$5,000-\$10,000K

AL	ACM Inc Huntsville	205-881-5493
AZ	BSE Scottsdale	602-251-0187
CA	BICC-Ver Electronics Sunnyvale	408-738-6911
CA	Professional Sales San Diego	619-578-8831
FL	EIR Maitland	305-660-9600
IN	STB & Assoc Indpls	317-844-9227
KS	Barnes Midwest Sales Overland Pk	913-341-9317
MD	J A Dougherty Sales Lutherville	301-321-7890
MA	Enterprise Technology Plainville	617-695-4700
MI	Favco Inc Birmingham	313-644-0203
NH	BICC-Ver Electronics Hempstead	603-329-5090
NY	Tecminal Englewood	201-569-4200
NJ	Apex Assoc Rochester	716-254-6050
NC	Tingen Tech Sales Raleigh	919-878-4440
OH	KT/Depco Chesterland	216-729-3588
OR	Luscombe Engineering Beaverton	503-636-6664
PA	The Rep Force Hatboro	215-441-4178
TX	Texport Garland	214-681-1376
TX	BICC-Ver Electronics Mesquite	214-289-1153

DISTRIBUTORS

AZ	Schweber Elect Huntsville	205-882-2200
AL	Schweber Elect Phenix	602-997-4874
CA	Dyna Svc LA	213-268-8531
CA	Schweber Elect Sacramento	916-929-9732
CA	Schweber Elect Santa Clara	408-748-4700
CO	Schweber Elect Englewood	303-799-0258
CT	Mid-State Elect Wallingford	203-265-9900
CT	Schweber Elect Danbury	203-792-3500
FL	Summit Dania	305-920-6253
FL	Schweber Elect Hollywood	305-927-0511
GA	Schweber Elect Norcross	404-449-9170
IL	Redel Labs Arlington Hts	312-253-5000
IL	Schweber Elect Elk Grove Vlg	312-364-3750
IN	Graham Elect Ft Wayne	219-423-3422
IA	Schweber Elect Cedar Rapids	319-373-1417
KS	Schweber Elect Kansas City	913-492-2922
LA	Menard Elect Baton Rouge	504-0323
MD	Resco White Marsh	301-529-0500
MD	Schweber Elect Gaithersburg	301-840-5900
MA	Now Elect Framingham	617-872-5876
MA	Aved Wilmington	617-657-8310
MA	Schweber Elect Bedford	617-275-5100
MI	McNaughton McKay Madison Hgts	313-399-7500
MI	Schweber Elect Livonia	313-525-8100
MN	Schweber Elect Edina	612-941-5280
MO	Schweber Elect St Louis	314-739-0526
NH	Schweber Elect Manchester	603-625-2250

NJ	Route Elect Springfield	201-379-7710
NJ	Resco Pensauken	609-662-4000
NY	Summit Buffalo	716-884-3450
NY	Davis Electronics Hempstead	516-483-9200
NY	Schweber Elect Westbury	516-334-7474
NC	Resco Raleigh	919-781-5700
NC	Schweber Elect Raleigh	919-876-0000
OH	Roberts Elect Cleveland	216-238-1711
OH	Graham Elect Cincinnati	513-772-1661
OH	Schweber Elect Dayton	513-439-1800
OK	Schweber Elect Tulsa	918-622-8000
OR	Dunn Elect Portland	503-285-0214
PA	Leff Electronics Braddock	412-351-5000
PA	Schweber Elect Horsham	215-441-0600
TX	City Elect Houston	713-621-1060
TX	Schweber Elect Dallas	214-661-5010
WI	Taylor Elect Mequon	414-241-4321
WI	Schweber Elect Brookfield	414-784-9020

BICRON ELECTRONICS CO BOX
807 BARLOW ST CANAAN CT 06018
TWX 5101013050 203-824-5125
P KENT EMP 100 ENG 5 \$2,500-\$5,000K
ADV PG 498

CO	Omega Ltd Denver	303-762-1921
IL	KMA Sales Rolling Meadows	312-398-5300
IN	J & W Electronics Indpls	317-842-3740
MA	Sullivan Tech Sales Framingham	617-620-0195
OH	Arthur H Baier Cleveland	216-461-6161
PA	Homer Smith Inc Media	215-543-2434
UT	Omega Ltd Salt Lake City	801-277-8061
WI	KMA Sales Milwaukee	414-259-1771

BIDDLE INSTRUMENTS-SENSITEK
510 TOWNSHIP LINE RD
BLUE BELL PA 19422
TWX 685-1045 215-646-9200
M FRANZESE EMP 285 ENG 24 OVER \$10,000K
CA Tech-Ser Inc Torrance 213-320-8101
CA Tech-Ser Inc Mtn View 415-969-9020
CO Tessco Inc Denver 303-778-1119
FL Col-Ins-Co, Inc Orlando 305-587-7615
GA T S Williams & Assoc Roswell 404-587-3353
IL K W Meyers Co Schaumburg 312-882-4808
IN Kenneth W Meyers Co Indpls 317-783-1030
LA Butler & Land Inc New Orleans 504-734-8888
MD Black & Assoc Sparks 301-472-2416
MA Eastonix Inc Bedford 617-275-5775
MI Satullo Co Royal Oak 313-549-3910
MN K W Meyers Co Mnpls 612-920-7080
MO Carlton Co KC 816-363-5300
NJ L & M Assoc Elmwood Pk 201-797-0441
NY Canavan-Scanlon Assoc Rochester 716-424-1830
NY L & M Assoc New York 212-243-6155
NC Baesel & Asso Charlotte 704-375-1044
OH Lax Assoc Cleveland 216-333-0844
PA L & M Assoc Andalusia 215-245-6658
TX Butler & Land Inc Dallas 214-363-8900
VA Virginia Tech Assoc Richmond 804-266-9654
WA Instrument Reps Asso Seattle 206-762-0707
WI K W Meyers Co Brookfield 414-784-3790

BIGELOW COMPONENTS CORP
74 DIAMOND RD SPRINGFIELD
NJ 07081 201-467-1200
G DENGES EMP 50 ENG 2
AZ Earl C Miller & Assoc Phoenix 602-841-0552
IL Ray/Wave & Co Elgin 312-931-7070

BIKOR CORP 1504 W 228 ST
TORRANCE CA 90501
TWX 910-349-6667 213-539-6320
M WALKER EMP 50 ENG 4 \$1,000-\$2,500K
AZ Trembley Assoc Tempe 602-967-2058
CA Electec Sales Sunnyvale 408-747-1722
CA Power Assoc San Diego 619-275-0641
CO Trembley Assoc Wheat Ridge 303-421-8900
CT Rosenbaum Electronics Guilford 203-453-5424
FL Bill Toy Assoc Indian Harbour Bch 305-773-4961
MA Electronic Mktg Assoc Marblehead 617-631-2886
MN Chris-Tek Inc Minnetonka 612-434-1334
MO B & H Assoc St Louis 314-434-4425
NV Trembley Assoc Las Vegas 702-739-9771
NY Comp-Tech Sales Hicksville 516-935-2152
NY Tae-Rep Inc Rochester 716-586-8710
OH KT/Depco Cleveland 216-442-6200
UT Trembley Assoc SLC 801-486-5292
WA Electronics NW Redmond 206-883-1959
FR Jerome & Francis Co Ltd N Vancouver BC 604-986-1286
FR Solid State Eng Montreal PQ 514-481-3313

DISTRIBUTORS

NJ	Tory Sales Hasbrouck Hts	201-288-7400
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BINATRON INC 2832 WALNUT D
TUSTIN CA 92680
TWX 714-730-9128 714-669-9248
R TANIMOTO EMP 4 ENG 1 \$1,000-\$2,500K

BINDICATOR 1915 DOVE BOX 9
PORT HURON MI 48060
TWX 810-231-5261 313-987-2700
R ZIELINSKI EMP 45 ENG 5 \$5,000-\$10,000K

BIO DESIGN PRODUCTS 112 WILL DR
CANTON MA 02021 617-828-1220
E SIEGAL EMP 18 ENG 3 \$250-\$500K
CA C Stauffering Arleta 213-896-2419
FL S Fox Tampa 813-876-1381
GA B Wood Lawrenceville 404-448-2471
IL D King Westchester 312-345-2966
LA M Florek Metairie 504-837-4702
MA Amsoc Wellesley Hils 617-235-7340
MI S Hawn Ann Arbor 313-533-5346
MN J Knapp Minneapolis 612-831-8802
NJ H Keeley Medford 215-348-3030
OH P Barker W Carrollton 513-851-3765
PA B Gratton Pittsburgh 412-257-0505

TX	W Adamson Huffman	214-234-2471
WA	J Brennan Seattle	206-715-3405

BIRD ELECTRONIC CORP 30303
AURORA RD CLEVELAND (SOLO)
OH 44139 TWX 706898 216-248-1200
W YOCHUM EMP 258 ENG 12 OVER \$10,000K
ADV PG 529

CA	Bird Elctr Corp 621 W Ojai Ojai	805-646-7255
FR	Tele-Radio Sys Ltd Woodbridge ON	416-661-3221
FR	Tele-Radio Sys Ltd 1536 Columbia St Vancouver, BC	
FR	Tele-Radio Sys Ltd 11567 160 St Edmonton AB	
FR	Ataio Ing SA Ganduxer 76 Barcelona	
FR	Amotec Elctrn AG Box 73 Rotfluhstr 38 Zollikon Switz	
FR	Amtech Trans Corp 1231 Lincoln Bl Santa Monica	

BIRNBACH CO INC 77 SCHMITT BLVD
FARMINGDALE NY 11735 516-420-9800
L COOPER EMP 20 ENG 2 \$2,500-\$5,000K

DISTRIBUTORS

CT	Milgray CT Orange	203-795-0711
FL	Milgray FL Winter Pk	305-647-5477
GA	Milgray / Atlanta Atlanta	404-393-9666
IL	Milgray Chl Bensenville	312-350-0490
KS	Milgray KC Overland Pk	913-236-8800
MD	Milgray Wash Columbia	301-995-6169
MA	Milgray NE Burlington	617-272-6800
NJ	Milgray D/V Cherry Hill	609-424-1300
NY	Milgray NY Farmingdale	516-420-9800
NY	Milgray / Upstate Pittsford	716-385-9330
OH	Milgray Cleveland	216-881-8800
TX	Milgray Dallas	214-248-1603

BISHOP ELECTRONICS CORP
3729 SAN GABRIEL RIVER PKWY
PICO RIVERA CA 90660
TWX 910-586-1922 213-695-0446

BISHOP

AZ	Cantec Sales Inc	602-829-0191
CA	William Parks Assoc	415-796-0875
CA	Elscio Electronics	213-533-1255
CO	West High-Tech Ltd	303-773-8180
FL	Tech-Rep Assoc	800-282-6725
IL	Winner Co	312-655-3545
KS	A M E Sales	913-262-3971
MA	Sullivan Tech Sales	617-620-0195
MO	A M E Sales	314-947-0333
NJ	Peter Schmitt Co	201-944-2806
NY	R F Roux	315-458-9169
NC	United Sales	919-674-9874
PA	Ecco Electronics	412-327-6856
TX	Kite Electronics	214-986-0321

DISTRIBUTORS

CA	Capacitor Unltd San Jose	408-946-7676
CA	KEA Elect Hayward	415-887-2900
CA	Mill-Comm Distributors Chatsworth	818-998-3111
CA	Ryno Elect Orange	714-637-0200
CA	Ryno Elect San Diego	619-453-8430
CA	Projection Unltd Santa Ana	714-261-2323
CA	Projection Unltd San Diego	619-268-2929
IL	Components Inc Lisle	312-852-7707
OH	Advacom Inc Twinsburg	216-425-8477
PA	Advacom Inc McKean	814-476-7774
PA	Advacom Inc Lancaster	717-299-5615
PA	Advacom Inc Export	412-733-5400

BISHOP GRAPHICS INC 5388
STERLING CTR DR BOX 5007
WESTLAKE VILLAGE CA 91359
TWX 66-2400 818-991-2600
N SHAW EMP 170 ENG 5 OVER \$10,000K

DISTRIBUTORS

AZ	Optifab Inc Phoenix	602-271-0921
CA	Bishop Graphics Sunnyvale	408-732-9010
CA	Bishop Graphics No Hollywood	818-984-3030
CO	HAPCO Boulder	303-447-0444
CT	Crest Inc Farmington	203-677-8817
FL	Orlando Frame & Art Sply Orlando	800-432-0268
GA	Jack Spears Inc Atlanta	800-241-0262
IL	Artworks Unltd Des Plaines	312-297-4555
IL	City Blueprint & Sply Peoria	309-676-6633
IL	Fotel Inc Villa Park	312-834-4920
IN	Lincoln Graphics Ft Wayne	219-422-9551
IN	Marbaugh Eng Sply Co Indpls	317-632-4322
IA	Iowa Elect Iowa City	319-351-3184
KS	Kansas Blueprint Wichita	316-264-9344
MD	Rite-Line Rockville	301-251-0515
MA	Fotobeam Waltham	617-893-1600
MI	Precision Photo Graphics Ann Arbor	313-971-9100
MI	DMI Unltd Madison Hts	313-585-1490
MN	Albinston Inc Mpls	800-742-0570
MO	Commercial Blueprint St Louis	314-421-5141
MO	Crown Dist Bridgeton	314-731-3001
NJ	Brewer Assoc Kenilworth	201-276-7800
NJ	PC & D Supply Pennington	800-257-0488
NJ	R S Knapp Co Lyndhurst	201-438-1500
NM	Mesa Blueprint Albuquerque	505-262-2046
NY	Aresco Hicksville	516-433-7440
NY	Syracuse Blueprint Syracuse	800-962-1458
NY	Rolotite-Elliott Pittsford	716-385-1463
NY	Spacetec Inc Port Chester	518-382-3857
NY	Reprocraft Inc Buffalo	716-847-6262
OH	J Nelson Co Cleveland	216-464-0200
OK	Central Eng Sply Okla City	405-232-1147
OK	J A Blackwood Co Tulsa	918-587-6791
PA	A & B Smith Co Monroeville	412-242-5400
PA	Johnson Whiteprint Co Camp Hill	717-377-3428
TX	Triangle Reproductions Houston	713-522-1075
TX	Blair Graphics Plano	214-423-7444
TX	ICD Corp Dallas	214-241-9806
TX	Lars Industries Ft Worth	817-332-3672
TX	Paul Anderson Co San Antonio	512-734-8111
UT	Central Utah Elect Provo	801-373-7522

WA F Jackson Asso Redmond.....206-881-7277
 Blueprints Inc Milwaukee.....414-327-5010
 WI Design Products New Berlin.....414-786-3440

BISON INSTRUMENTS INC 5708
 W 36 ST MINNEAPOLIS MN 55416
 TWX 29-0208.....612-926-1846
 B HERRIDGE EMP 21 ENG 2 \$1,000-\$2,500K

BIT 3 COMPUTER CORP 8120
 PENN AVE S MINNEAPOLIS
 MN 55431.....612-881-6955
 G MITCHELL

BITRONICS INC 732 E GEOPP
 ST BOX 1338 BETHLEHEM
 PA 18016.....215-865-2444
 D REED EMP 25 ENG 2 \$500-\$1,000K

AZ PTE Electronics Mesa.....602-892-9329
 CO Equal Electric Parker.....303-841-8982
 GA Tanner & Tanner McDonough.....404-957-4280
 IL Weldy/Lamont Assoc Mt Prospect.....312-398-4510
 IN Weldy/Lamont Assoc Munster.....219-836-8126
 MN McCaskey Co Cedar Falls.....319-988-4337
 LA Len T & Deloney Co New Orleans.....504-394-1961
 MS Danep Assoc Needham.....617-444-8838
 ND Len T Deloney Co Brandon.....301-825-0438
 ND Electric Utility Supply Co Fargo.....701-235-3684
 OH W L Blake Dublin.....614-764-8700
 PA Gee Co Doylestown.....215-348-3300
 TX Len & Deloney Co Austin.....512-327-6451
 WA Meter Metrics Richmond.....804-274-1431
 WA Thompson Sales Mercer Island.....206-232-7686
 WI Weldy/Lamont Assoc So Milwaukee.....414-764-1978

BIVAR INC 4 THOMAS IRVINE
 CA 92718.....714-951-8808

B MULDOON EMP 21 ENG 2 \$2,500-\$5,000K
 CA Qualtronic San Diego.....619-695-0118
 CA Warren Assoc Santa Clara.....408-988-7762
 CO D Barth & Assoc Westminster.....303-427-8679
 IL Berndt Assoc Chicago.....312-283-0713
 IN Wilson Tech Sales Indpls.....317-298-3345
 ND Dodsworth Inc Milford.....313-875-5755
 MN Berndt Assoc Mnpls.....612-546-2021
 NJ Cambridge-Allen & Assoc
 Berkeley Hts.....201-464-0203
 NY T-Squared Elect Co Syracuse.....315-463-8592
 NY T-Squared Electronics Victor.....716-924-9101
 OH Tri-State Mktg Cincinnati.....513-761-7993
 OH Repco Solon.....216-248-8900
 OR Eclipse Mktg Group Beaverton.....503-642-1661
 OR K B Erdman Co Elkins Pk.....215-224-1833
 TX The Draper Co Richardson.....214-680-1650
 WA Eclipse Mktg Grp Redmond.....206-885-6991
 WI Berndt Assoc Milwaukee.....414-545-8400

DISTRIBUTORS
 Z EKO Sales Phoenix.....602-275-7501
 Components Center Fountain
 Valley.....714-979-0433
 CA R C Dudek Westlake Vlg.....818-707-1310
 CA Vic/Tal Sales Sunnyvale.....408-964-6254
 CA Sigma Elect San Diego.....919-565-2000
 CA FTR Fasteners Santa Fe Springs.....213-946-6464
 CT Industrial Elec Englewood.....303-694-9444
 CT Plastic & Metal Components
 Co Milford.....203-877-2723
 SA Spyrallo Inc Peachtree City.....404-487-7600
 GA Atlanta Hdwe Specialty Norcross.....404-449-3000
 IL Waldom Elect Chicago.....312-485-1212
 IN Altex Electronics Carmel.....317-848-1323
 ND Capital Fasteners Rockville.....301-948-9310
 MD Petrick Sales Beltsville.....301-937-4960
 VA Cockley Boyd & Abbott Needham
 Hts.....617-444-5470

MA Electronic Fasteners Waltham.....617-890-7780
 MA Rush Industries Winchester.....617-729-5800
 MI Tri-West Products Detroit.....313-273-0400
 MN S W Anderson Co Eden Prairie.....612-941-4198
 NH EPE Corp Londonderry.....603-669-9181
 NY Fastbolt Corp So Hackensack.....201-440-9100
 NY QAR Elect Mt Vernon.....914-699-2224
 NY Key Components Bohemia.....516-567-7500
 NY Masline Elect Rochester.....716-546-5373
 NC Century Fasteners Raleigh.....919-787-1800
 OH Argent Indus Englewood.....513-836-8633
 OH Hughes-Peters Columbus.....614-294-5351
 OH Repco Solon.....216-248-8900
 OR Component Resources Beaverton.....503-641-8488
 OR Murphy Elect Beaverton.....503-642-2001
 PA Century Elect Norristown.....215-631-5400
 PA Alder-Tronics Pittsburgh.....412-821-5565
 TX Tech Supply Inc Grand Prairie.....214-660-4888
 TX Global Fastener Dallas.....214-340-6068
 WA Murphy Elec Redmond.....206-881-1234
 WA Pacific Electronics Seattle.....206-575-1050
 WA Component Resources Seattle.....206-454-8666
 FR Rush/ON Mississauga ON.....416-677-7280
 FR ASG/Wilson Sales Mississauga ON.....416-677-8200
 FR Century Elect Comps Puerto Rico.....800-331-7021

BIWAX CORP 45 E BRADROCK DR
 DES PLAINES IL 60018.....312-824-0137
 H BYSTRICKY EMP 37 ENG 2

B & K PRECISION PRODUCTS DYNASCAN
 CORP 6460 W CORTLAND CHICAGO
 IL 60635 TWX 210017.....312-889-9087
 D HOY EMP 400 ENG 50 OVER \$10,000K

CA Mike Roth Sales Irvine.....714-250-0722
 CA Moulthrop Sales Pleasanton.....415-846-0550
 CO K-C Marketers Inc Denver.....303-733-5561
 IL Hutto-Hawkins-Peregoy Maitland.....305-831-2474
 AL M K Smith Inc Tucker.....404-939-3322
 L Brainerd-Wilson Mktg Arlington
 Hts.....312-437-2700
 N Electronic Reps Inc Indpls.....317-894-1414

KS Lowell-Kangas & Assoc Shawnee
 Mission.....913-631-3515
 MD Electra-Tech Inc Perry Hall.....301-256-2723
 MA W & D Mktg Woburn.....617-935-5610
 MI Robt Misk Co Southfield.....313-354-3310
 MN HMR Inc Mnpls.....612-888-2100
 MO Lowell-Kangas & Assoc St Louis.....314-821-4050
 NH W & D Marketing Manchester.....603-668-5280
 NJ Champion Elect Sales Co Medford.....609-983-0932
 NY Selectra Sales Bellmore.....516-221-7865
 NY Warren Kaufman & Assoc Rochester.....716-266-2728
 NC Maitland K Smith Charlotte.....704-372-2681
 OH Marlow Assoc Cleveland.....216-991-6500
 OR Fleeht & Sullivan Inc Portland.....503-641-8540
 TX Erickson Sales Dallas.....214-739-5833
 WA Fleeht & Sullivan Seattle.....206-522-1535
 WI Brainerd Wilson Mktg Waukesha.....414-797-7940
 FR Atlas Electronics Toronto.....416-789-7761
 FR Empire Exporters Plainville NY.....516-293-5582

BLACKBURN DIV FL INDUSTRIES
 1701 W BETHANY RD SYCAMORE
 IL 60178 TWX 25-7359.....815-895-6501
 EMP 55 ENG 3

BLACKHAWK NETWORKS CORP
 14 N PARKER DR BOX 919
 JAMESVILLE WI 53545
 TWX 910-3508266.....608-752-8701
 D ADEE EMP 10 ENG 2

BLACKSTONE ULTRASONICS INC
 1111 ALLEN ST JAMESTOWN
 NY 14701 TWX 759927.....716-665-2620
 T KORN EMP 38 ENG 8 \$1,000-\$2,500K
 AZ Southern Ind Sply Birmingham.....205-251-2076
 AZ Electrical Spec Co Phoenix.....602-275-6736
 CA Jack Bannan Assoc Thousand Oaks.....213-889-4183
 CO Electrical Spec Co Denver.....303-321-2598
 IL C Simpson Southfield.....313-557-8850
 IN Bilidco Columbus.....812-342-3725
 KS Lawrence Sales Eldorado.....316-321-0537
 MA Tech-Reps Inc Reading.....617-944-6800
 OR Electrical Spec Co Portland.....503-229-3601
 PA CIV Co Villanova.....215-255-7054
 UT Electrical Spec Co S L C.....801-487-9805
 VA CIV Co West Chester.....215-692-3177
 WA Electrical Spec Co Seattle.....206-682-3434

BLACK & WEBSTER INC 219
 BEAR HILL RD WALTHAM MA 02254
 TWX 951102.....617-890-9100

J BARBER EMP 100 ENG 6
 AZ Gassner & Clark Tempe.....602-968-9037
 CA D Lewis Assoc Los Angeles.....213-728-7004
 CO Tech-Rep Sales Co Denver.....303-758-7031
 CT Breen Assoc E Hartford.....203-528-5627
 GA Air Specialists Marietta.....404-426-1722
 HI H S Gray Co Honolulu.....808-839-2747
 IL Warner Indus Sales Wheaton.....312-665-6540
 IN Blettner Eng Co Buck Creek.....317-269-0577
 MD WA Brown Inc Seabrook.....301-577-6105
 MA T M Walsh Assoc Duxbury.....617-934-6210
 MI Clyde N Simpson Co Southfield.....313-557-8850
 MN Giefer Sales Co Mnpls.....612-884-2395
 NY Affiliated Sales Inc Holmdel.....201-572-0777
 NJ BMH Equip, Inc East Rochester.....716-381-8550
 NC Ridgemont Sales Co Matthews.....704-545-3341
 OH Kammerer Sales Cincinnati.....513-271-0131
 PA Peter J Routsom Co Coopersburg.....215-346-8262
 TN Automated Ind Sys Nashville.....615-883-3000
 TX Tech Sales Co Arlington.....817-429-9804
 WA Dean Lewis Assoc Vancouver.....206-693-6211
 WI Maher Automation Meguon.....414-242-0999
 FR Roper Sales Islington ON.....416-249-3211

BLATEK INDUSTRIES INC MILL
 RD & PINE ST BOX 574
 BELLEFONTE PA 16823.....814-355-4910
 L FELTMAN EMP 20 ENG 3 \$500-\$1,000K
 CA Mo'Dco 2221 W Olive Burbank.....213-848-2215
 CO McCarthy Co Littleton.....303-773-0643
 MI McNabb Assoc Benton Harbor.....616-925-2166

BLH ELECTRONICS 75 SHAWMUT RD
 CANTON MA 02021
 TWX 710-324-0683.....617-821-2000
 R SMITH EMP 210 ENG 30 OVER \$10,000K

AL Currie Peak & Frazier Huntsville.....205-536-1506
 AZ Barnhill Assoc Scottsdale.....602-947-7841
 CA FLW Inc Van Nuys.....213-988-5236
 CA FLW Inc Hayward.....415-487-2222
 CO Barnhill Assoc Englewood.....303-779-3600
 FL Currie Peak & Frazier Orlando.....305-855-0843
 IL Comtel Midwest Chicago.....312-539-4838
 IN Comtel Midwest Indpls.....317-253-1681
 MD AIC Baltimore.....301-944-8400
 MI Comtel Instr Southfield.....313-358-2505
 MN Comtel Midwest Wayzata.....612-476-1551
 MO Comtel Midwest St Louis.....314-428-5508
 NJ BLH Marlton.....609-596-3029
 NM Barnhill Assoc Albuquerque.....505-299-7658
 NY Ossmann Instr Inc East Syracuse.....315-437-6666
 NY Ossmann Instr Inc Rochester.....716-473-5720
 NC Currie Peak & Frazier Greensboro.....919-373-0380
 OH Comtel Instr Cleveland.....216-442-8080
 TX American Analogue Houston.....713-941-7265
 WA Frost Engineering Bellevue.....206-455-5360
 WI Comtel Midwest New Berlin.....414-544-6042
 FR Alexander D Smart Ltd Markham ON.....416-474-0550

BLILEY ELECTRIC CO 2545
 GRANDVIEW BLVD ERIE PA 16506
 TWX 510-696-6886.....814-838-3571
 H YOCUM EMP 170 ENG 15
 AL R W Mitscher Co Huntsville.....205-882-8050
 CA Gene C Woempner Co Mt View.....415-964-5454
 CA Cain Technology LA.....213-477-9054
 CO Cornelius Assoc Aurora.....303-368-4196
 CT Sturgeon Co Hartford.....203-249-7800

FL R W Mitscher Co Altamonte Sprgs.....305-788-6844
 GA R W Mitscher Co Lawrenceville.....404-923-3239
 MD R W Mitscher Co Laurel.....301-498-6090
 MA Sturgeon Co Needham Hts.....617-444-6603
 MO AME Sales St Louis.....314-965-1779
 NY R W Mitscher Co Buffalo.....716-633-7970
 NY Schmitt Ind Mktg Corp West
 Hempstead.....516-486-3510
 NC R W Mitscher Co Raleigh.....919-848-0941
 OR Dussault & Assoc Portland.....503-641-8780
 PA R W Mitscher Co Huntingdon
 Valley.....215-355-4452
 TN R W Mitscher Co Johnson City.....515-929-7258
 TX Vector Sales Co Richardson.....214-234-4291
 WA R W Mitscher Co Shipman.....804-263-5154
 WA Dussault & Assoc Seattle.....206-281-4025
 FR Dage Corp 757 Main St Stamford
 Ct.....203-324-3123

BLINN CO INC DELBERT BOX 2007
 POMONA CA 91766.....213-628-8794
 C STEWART EMP 10 ENG 2 \$500-\$1,000K
 MD Callas Elctns Baltimore.....301-744-7711
 NY Kaebel & Mack Manhasset.....516-627-6620
 WA W J Stulgis Co Seattle.....AT 2-7870

BLONDER-TONGUE LABS INC
 ONE JAKE BROWN RD OLD BRIDGE
 NJ 08857 TWX 710-98-0695.....201-679-4000
 G TONGUE EMP 600 ENG 20 OVER \$10,000K
 CA E Strasser Co LA.....213-242-8823
 CO Systems Marketing.....303-674-3390
 FL Enjay Assoc Sarasota.....813-953-9843
 HI Lee Gaber Co Honolulu.....808-536-2457
 IL George Pettit Co Berkeley.....312-449-8000
 IN Green Wissler Sales Co Indpls.....317-291-2232
 MA W A Hendrickson Co N Scituate.....617-545-0652
 MN Mel Foster Co Edina.....612-835-2526
 MO Lowell Kangas Assoc St Louis.....314-821-4050
 NY LCA Sales Tuckahoe.....914-961-4700
 NY LSM Assoc Phelps.....315-548-4891
 NC Adams & Assoc Greensboro.....919-272-6838
 TX Spivey-Le Boeuf Assoc Houston.....713-649-1221
 WA W Pacnor Mktg Lynnwood.....206-771-6016

DISTRIBUTORS
 AK Anixter-Pruzan Anchorage.....907-274-8525
 AR Davco Elect Batesville.....501-793-3816
 CA Western CATV Dist Torrance.....213-539-8030
 CA Anixter-Pruzan Irvine.....714-556-6270
 CO Mega Hertz Sales Littleton.....303-797-7900
 FL Dow Elect Sarasota.....813-365-3393
 GA Cable TV Supply Co Decatur.....404-981-9220
 IL Cable TV Supply Addicks.....312-543-9800
 IL Anixter-Pruzan Elk Grove Vlg.....312-640-1156
 IN CWY Elect Lafayette.....317-447-4675
 MI Klungness Elect Iron Mt.....906-774-1755
 MN D F Countryman Co St Paul.....312-423-9555
 MO Anixter-Pruzan St Louis.....304-829-0100
 NJ Cable TV Supply Cinnaminson.....516-293-7788
 NY Telewire East Farmingdale.....215-675-2053
 PA Toner Cable Horsham.....215-673-4982
 PA TVC Supply Hershey.....717-681-6141
 TX Cable TV Supply Houston.....206-251-6760
 WA Anixter-Pruzan Seattle.....304-622-4700
 WV Midwest CATV Clarksburg.....304-622-4700

BLOXCOM CORP 1130 LARKIN DR
 WHEELING IL 60090
 TWX 310-297-155.....312-520-8010
 V BLOXEMP EMP 10 ENG 4 \$2,500-\$5,000K
 AR S L Welch & Assoc Little Rock.....501-455-2199
 CA Straube Assoc Mt View.....415-969-6060
 CA Cook Enterprises El Monte.....213-686-2120
 CO Straube Assoc Westminster.....303-426-0890
 CT Hathaway Electronics Lexington
 MA.....617-861-7010

FL G F Bohman Assoc Apopka.....305-886-1882
 GA ADI Athens.....919-934-8136
 IL Electronic Sources Bellevue WA.....206-451-3500
 ID Straube Assoc Westminster CO.....303-426-0890
 IL Beta Technology Sales Glendale
 Hts.....312-790-9886
 IL EPI Inc St Louis MO.....314-962-1411
 IN EMC Inc Indianapolis.....317-253-1668
 MD Mid Atlantic Sales Silver Spring.....301-593-7749
 MA Hathaway Electronics Lexington.....617-861-7010
 MI Jay Marketing Plymouth.....313-459-1200
 MN Jos-Co/Mellius Minneapolis.....612-861-3343
 MS S L Welch Jackson MS.....601-932-5534
 MT Electronic Sources Bellevue WA.....206-451-3500
 MT Straube Assoc Westminster CO.....303-426-0890
 NJ Jacobsen Assoc Westboro PA.....215-674-2937
 NY Dony Tech Sales Watgah NY.....516-826-5550
 NY Dony Technical Sales Watgah NY.....516-826-5550
 NY Net Sales Fairport.....716-467-4538
 NC ADI Smithfield.....919-934-8136
 OH Dolfuss-Root Strongsville.....216-238-0300
 PA Dolfuss-Root Pittsburgh.....412-221-4420
 PA Jacobsen Assoc Harbor.....215-674-2937
 TX Barry Sales Richardson.....214-234-0255
 UT Straube Assoc Westminster CO.....303-426-0890
 WI Beta Technology Mukwonago.....414-363-5086

BLUE M UNIT OF GENERAL SIGNAL
 138 & CHATHAM STS BLUE ISLAND
 IL 60406 TWX 910-689-3398.....312-385-9000
 H MATHEWS EMP 370 ENG 8
 ADV PG 84

AZ Blue M 424 W Broadway Tempe.....602-894-2305
 CA Blue M 9440 Telstar Ave ElMonte.....818-442-6672
 CA Blue M 292 Gibraltar Dr
 Sunnyvale.....408-734-8734
 DE Blue M 3411 Silverside
 Wilmington.....302-774-5455
 FL Blue M Longwood.....305-671-6655
 GA Blue M 2690 Brandywine Atlanta.....404-455-3452
 KS Blue M 10101 Sante Fe Dr
 Overland Pk.....913-888-6483
 MA Blue M 209 W Central Natick.....617-651-1616

MI Blue M Livonia.....313-474-4312
 NY Blue M 20 Old Turnpike Nanuet.....914-623-0900
 NY Blue M 6443 Ridings Rd Syracuse.....315-437-0192
 NC Blue M 501 Archdale Rd Charlotte.....704-527-2492
 OH Blue M 1821 Summit Rd Cincinnati.....513-821-6278
 OH Blue M 72 N Main Hudson.....216-656-1177
 TX Blue M 2301 Forest La Garland.....214-272-2509
 WA Blue M 5501 4 Av S Seattle.....206-763-1030

BLU-RAY INC WESTBROOK RD ESSEX
 CT 06426 TWX 710-466-5909.....203-767-0141
 J MILLER EMP 50 ENG 3 \$2,500-\$5,000K

B-M-A INC BOX 562 31 WILLOWS RD
 AYER MA 01432.....617-772-3310
 W BRYANT EMP 22 ENG 3 \$1,000-\$2,500K

AZ Sales Engr Inc Scottsdale.....602-944-3230
 CA Gordon-Elliott Inc Agoura.....213-991-4594
 FL EMS Inc Melbourne.....305-587-7146
 IL Ken Meyers Co Schaumburg.....312-882-4808
 IN Kenneth Meyers Co Indpls.....317-783-1030
 IA Kenneth Meyers Co Cedar Rapids.....319-363-8987
 MD A L Myers Co Baltimore.....301-426-5583
 MI Micro Sales Box 119 Northville.....612-459-1670
 MN Kenneth Meyers Co Mnpls.....612-920-7080
 NC Radco Co Winston Salem.....919-722-9671
 OH Micro Sales Box 450 Centerville.....513-433-8171
 PA Micro Sales Pittsburgh.....412-928-8118
 TX Tech Rep Mktg Dallas.....214-241-2434
 WI Kenneth Meyers Co Brookfield.....414-784-3790

BMI TEXTRON 1121 SILVER BEACH
 LAKE PARK FL 33403
 TWX 510-952-7642.....305-842-1707
 R SZENTE EMP 175 ENG 7
 CA BMI Santa Clara.....408-986-0727
 TX BMI Dallas.....214-388-2204

BMS DATA HANDLING INC 12155
 MAGNOLIA AVE BLDG 8D RIVERSIDE
 CA 92503.....714-359-8824
 T MITCHELL EMP 20 ENG 1 \$2,500-\$5,000K
 WI Nomos Mngmt Systems Neenah.....414-722-1479

BOBBINS INC 4200 W CHICAGO AVE
 CHICAGO IL 60651.....312-276-3270
 EMP 15 \$500-\$1,000K

BODINE ELECTRIC CO 2500
 W BRADLEY PL CHICAGO IL 60618
 TWX 25-3646.....312-478-3515
 R FORD OVER \$10,000K

CA C E Mello Alhambra.....818-282-2000
 CA E W Duemlein San Jose.....408-243-4800
 KS J F Gleeson & Assoc Shawnee
 Mission.....913-362-4422
 MA L R Cascino Andover.....617-470-0050
 MI S Cavender Grosse Ile.....313-676-2724
 MN J F Rynkar Mound.....612-472-4252
 NY Application Specialists
 Rochester.....716-586-6226
 NY D V Mayorga Massapequa.....516-541-1611
 OH J A Basten Hudson.....216-656-4226
 OR Don E Johnson Portland.....503-246-3131
 TX General Power Equip Co
 Richardson.....214-783-8371
 VA Jin-Sung Hsia McLean.....703-734-1739

DISTRIBUTORS

CA Minarik Elec L A.....213-624-3161
 CA Republic Sply San Leandro.....415-357-2211
 CA King Bearing San Jose.....408-998-5464
 CO Wazee Electric Denver.....303-623-8658
 CT Machine Drives & Controls
 Norwalk.....203-846-2007
 CT Machine Drives & Cont Hartford.....203-728-0403
 FL Electrical Mech Drives Tampa.....813-621-8675
 GA Brownell Insts & Controls
 Hapeville.....404-762-5181
 IL Excel Elec Svc Chicago.....312-421-7220
 IL Harris & Lee Chicago.....312-372-7272
 KS Kornfeld-Thorp Elec K C.....913-321-7070
 MA Electro Sales Somerville.....617-666-0500
 MA Empire Elec Medford.....617-395-5000
 MI Howard Elec Detroit.....313-923-0430
 MN Boustead Elec & Mfg Mpls.....612-644-9131
 MO Zeller Electric St Louis.....314-638-9641
 NE Precision Bearing Omaha.....402-444-3939
 NJ Jos T Fewkes & Co Cherry Hill.....609-424-5810
 NY B & B Motor & Con LIC.....212-784-1313
 NY K J Electric East Syracuse.....315-437-2826
 OH Reserve Elec Cleveland.....216-771-5764
 OH Thai Mor Assoc Dayton.....513-298-9939
 OK Southwest Drives Tulsa.....918-834-4231
 OK Dagwell-Dixie Okla City.....405-232-7671
 PA Braunnich-Roesse Pittsburgh.....412-471-6995
 TN Tennessee Machy Co Nashville.....615-244-8150
 TX Motion Industries Dallas.....214-351-2211
 TX Research Designs Houston.....713-995-8591
 WA Campbell Ind Supply Co Seattle.....206-447-7100
 WI Trester Service Elec Milwaukee.....414-264-8170
 FR Renold Can Ltd Brantford ON.....519-756-6118

BOEING ELECTRONICS 625 ANDOVER W
 TUKWILA WA 98188 TWX 329547.....206-575-5755
 R PRIEBE EMP 4000 ENG 600 OVER \$10,000K

BOGEN DIV LEAR SIEGLER INC
 BOX 500 PARAMUS NJ 07653
 TWX 710-990-5047.....201-343-5700
 A ARLOW EMP 300 ENG 30

AL Rohr-Wanger-Roberts Alabaster.....205-879-7361
 AZ J R Morgan Agency Phoenix.....602-268-3464
 AR J Y Schoonmaker Co Inc
 Little Rock.....501-375-2168
 CA EESCO Los Angeles.....213-242-8823
 CA Warren Assoc Santa Clara.....408-988-7762
 CO Mountain Reps Inc Denver.....303-623-0972
 FL Sprock Sales Ft Lauderdale.....305-741-2822
 GA Rohr-Wanger-Roberts Norcross.....404-263-9349

IL Wm M Linz Assoc Deerfield.....312-945-9600
 IN Kingston Sales Indpls.....317-876-2545
 IA R W Kunz & Assoc Cedar Rapids.....319-396-5386
 KS R W Kunz Assoc Prairie Vlg.....313-648-3535
 MD L D Lowery Inc Mt Airy.....800-345-1058
 MA R G Assoc Stow.....617-897-1741
 MI Riley & Petchell Inc Detroit.....312-937-3000
 MN R W Sales Inc St Paul.....612-646-2710
 MO R W Kunz Assoc St Louis.....314-966-4977
 NJ Bi-State Marketers Ridgefield.....201-943-5888
 NY Paston-Hunter Co Syracuse.....315-437-2992
 NY Bi-State Marketers Ridgefield.....201-943-5888
 OH Shamrock Elctn Sales Dayton.....513-258-1227
 OR Pacnor Mktg Sandy.....503-668-8848
 PA Martin Weinberg Assoc Glenside.....215-885-4244
 PA Shamrock Elctn Sales Pittsburgh.....412-344-0504
 SC Rohr-Wanger-Roberts Rock Hill.....803-324-5111
 TN J Y Schoonmaker Co Memphis.....901-767-0801
 TX J Y Schoonmaker Co Dallas.....214-349-1650
 VA L D Lowery Inc Mechanicsville.....800-345-1058
 WA Pacnor Mktg Lynnwood.....206-771-6016
 FR Atlas Elctns Ltd Toronto ON.....416-789-7761
 FR Singer Products Co Westbury NY.....516-333-3000

BOKERS INC 3104 SNELLING AVE S
 MINNEAPOLIS MN 55406.....612-729-9365
 A TSCROLL

BOLOTIN ASSOCS INC 21241
 VENTURA BLVD WOODLAND HILLS
 CA 91364 TWX 651325.....213-340-8552
 M BOLOTIN

BOLT INDUSTRIAL CONTROLS INC
 4645-2C INDUSTRIAL ST
 SIMI VALLEY CA 93063.....818-716-5169
 J WILLIAMS EMP 30 ENG 6 \$1,000-\$2,500K
 CA Chemtronics Mktg Garden Grove.....714-891-5600
 CA Westech Sales Mtn View.....415-961-1422
 CO O-C-B Sales Co Conifer.....303-670-1040
 GA Tek-Rep Mktg Lawrenceville.....404-963-1600
 KS O-C-B Sales Co Shawnee Mission.....913-341-4138
 MA A & M Electronics Inc Needham.....617-444-8170
 MN I P Sales Co Bloomington.....612-881-0549
 MO O-C-B Sales Co Florissant.....314-837-3361
 OH Geotronics Inc Cleveland.....216-526-2535
 TX Red River Reps Dallas.....214-691-7377
 WA Ecco Marketing Seattle.....206-364-0200

BOMAR CRYSTAL CO 201 BLACKFORD
 AVE MIDDLESEX NJ 08846
 TWX 710-480-4650.....201-356-7787
 M REED EMP 80 ENG 2
 MD Carwithen Assoc Silver Spring.....301-589-9040
 NJ JIC Assoc South Plainfield.....201-753-2270

BOONTON ELECTRONICS CORP
 791 ROUTE 10 RANDOLPH
 NJ 07869 TWX 710-986-8215.....201-584-1077
 S STRAIN EMP 170 ENG 20 \$5,000-\$10,000K
 ADV PGS 46,201,264,266,273,525,528

AL Scientific Devices SE Huntsville.....205-536-1969
 AZ Aztec Entrps Phoenix.....602-943-8178
 CA O'Halloran Assoc N Hollywood.....213-877-0173
 CA O'Halloran Assoc Palo Alto.....415-326-1493
 CO Aztec Entrps Denver.....303-779-5285
 CT Scientific Devices Mt Carmel.....203-248-9361
 FL Scientific Devices SE Orlando.....305-841-8180
 IL Sector Engrg Sales Elmhurst.....312-530-7850
 IN Sector Engrg Sales Indpls.....317-842-1210
 KS Ramsey Assoc Overland Pk.....913-649-6996
 MD Sei-Tronics Inc Silver Spring.....301-589-3391
 MA R J Sickles Lexington.....617-862-5100
 MN Sector Engrg Sales Mnpls.....612-593-1809
 MO Ramsey Assoc Maryland Hts.....314-878-5042
 NJ Scientific Devices Teaneck.....201-837-1004
 NM Aztec Entrps Albuquerque.....505-262-1688
 NY Scientific Devices Rochester.....716-334-2445
 NC Scientific Devices Winston-Salem.....919-765-5776
 OH Micro Sales Corp Centerville.....513-433-8171
 OR Scientific Devices Portland.....503-292-6934
 PA Robert Meyers Assoc Melrose Park.....215-224-1663
 TX Testech Inc Richardson.....214-644-5010
 UT Aztec Entrps Ogden.....801-621-1655
 WA Scientific Devices Bellevue.....206-747-5169
 WI Sector Engrg Sales Milwaukee.....301-589-3391

BOPLA ENCLOSURES SYSTEMS
 1350 BEVERLY RD MCLEAN
 VA 22101 TWX 29-8598.....703-549-7242

BORG INSTRUMENTS INC 902
 WISCONSIN ST DELAVAN WI 53115
 TWX 910-271-2608.....414-728-5531
 J ABEL EMP 300 ENG 15 OVER \$10,000K

BOSCH CORP ROBERT AUTOMOTIVE
 GROUP 2800 S 25 AVE
 BROADVIEW IL 60153
 TWX 23-5563.....312-865-5459
 D ROBSON EMP 2200

BOSCHERT INC 384 SANTA
 TRINITA AV SUNNYVALE CA 94088
 TWX 910-339-9241.....408-732-2440
 E CREAGER EMP 1200 ENG 20 OVER \$10,000K
 AL Advanced Comps Mktg Huntsville.....205-881-5493
 AZ WJM Sales Tucson.....602-888-4847
 CA Criterion Inc Santa Clara.....408-988-6300
 CA H King San Diego.....619-587-9300
 CA Mission Ridge Mktg Huntington
 Beach.....714-896-0784
 CO Electrodyne Inc Aurora.....303-695-8903
 FL Dyne-A-Mark Ft Lauderdale.....305-771-6501
 GA Advanced Comps Mktg Duluth.....404-442-5499
 IL Control Sales Elk Grove Village.....312-595-2110
 IN SAI Mktg Corp Indpls.....317-241-9276
 IA Stan Clothier Cedar Rapids.....319-395-0245
 KS Design Solutions Augusta.....316-775-7424
 MA Eastern Micro Systems Marlboro.....617-480-0400

MI SAI Mktg Corp Brighton.....313-227-1786
 MN Stan Clothier Co Mnpls.....612-944-3456
 MO Design Solutions Inc St Louis.....314-961-7170
 NJ Power 2 Cherry Hill.....609-424-6737
 NY Morgan Elctns Huntington.....516-549-5180
 NC Zucker Assoc Raleigh.....919-782-8433
 OH SAI Mktg Corp Centerville.....513-435-3181
 OR Electronic Tech Sales Beaverton.....503-641-5180
 TX O M Sales Richardson.....214-690-6746
 UT Electrodyne Inc SLC.....801-486-3801
 WA Electronic Tech Sales Kirkland.....206-827-8086
 WI Control Sales Thiensville.....414-242-4580
 FR Bytewide Mktg Lachine PQ.....514-636-4121
 FR Blakewood Elctns Vancouver BC.....604-926-8000

DISTRIBUTORS

AL Marshall Industries Huntsville.....205-881-9235
 AL Arrow Elect Huntsville.....205-837-6955
 AZ Marshall Industries Tempe.....602-968-6181
 AZ Anthem Electronics Tempe.....602-244-0900
 AZ Arrow Elect Tempe.....602-968-6181
 CA Marshall Industries El Monte.....213-442-7204
 CA Marshall Industries Canoga Park.....213-999-5001
 CA Marshall Industries Irvine.....714-660-0951
 CA Marshall Industries San Diego.....619-578-9650
 CA Marshall Industries Milpitas.....408-943-4600
 CA Anthem Electronics San Jose.....408-295-4200
 CA Anthem Electronics Chatsworth.....213-700-1000
 CA Anthem Electronics San Diego.....619-453-9005
 CA Anthem Elect Tustin.....714-768-4444
 CA Arrow Elect San Diego.....619-565-4800
 CA Arrow Elect Tustin.....714-838-5422
 CA Arrow Elect Chatsworth.....818-701-7500
 CA Arrow Elect Sacramento.....916-925-7456
 CA Arrow Elect Sunnyvale.....408-745-6600
 CO Anthem Electronics Englewood.....303-790-4500
 CO Marshall Industries Denver.....303-427-1818
 CO Arrow Elect Aurora.....303-696-1111
 CT Arrow Elect Wallingford.....203-265-7741
 CT Marshall Industries Wallingford.....203-265-3822
 FL Marshall Industries Orlando.....305-841-1878
 FL Arrow Elect Ft Lauderdale.....305-429-8200
 GA Marshall Industries Norcross.....404-923-5750
 GA Arrow Elect Norcross.....404-449-8252
 IL Arrow Elect Schaumburg.....312-397-3440
 IL Marshall Industries Schaumburg.....312-490-0155
 IN Arrow Elect Indianapolis.....317-243-9353
 MD Marshall Industries Gaithersburg.....301-840-9450
 MD Arrow Elect Baltimore.....301-995-0003
 MA Arrow Elect Woburn.....617-933-8130
 MA Marshall Ind Burlington.....617-272-8200
 MI Arrow Elect Ann Arbor.....313-971-8820
 MI Marshall Ind Livonia.....313-525-5855
 MN Arrow Elect Edina.....612-830-1801
 MN Marshall Industries Plymouth.....612-559-2211
 MO Arrow Elect St Louis.....314-567-6888
 NJ Marshall Industries Mt Laurel.....609-234-9100
 NJ Arrow Elect Fairfield.....201-575-5300
 NJ Marshall Industries Fairfield.....201-882-0320
 NJ Arrow Elect Marlton.....609-596-8001
 NM Arrow Elect Albuquerque.....505-243-4566
 NY Arrow Elect Hauppauge.....516-231-1000
 NY Arrow Elect Rochester.....716-427-0030
 NY Marshall Industries Hauppauge.....516-273-2424
 NY Marshall Ind Rochester.....716-235-7621
 NY Marshall Ind Endwell.....607-754-1570
 NY Arrow Elect Winston Salem.....919-725-8711
 NC Marshall Ind Raleigh.....919-878-9882
 OH Arrow Elect Solon.....216-248-3990
 OH Arrow Elect Centerville.....513-435-5563
 OH Marshall Industries Dayton.....513-236-8088
 OH Marshall Ind Solon.....216-248-1768
 OH Anthem Elect Lake Oswego.....503-884-2661
 OR Arrow Elect Tigard.....503-884-1050
 OR Marshall Ind Beaverton.....503-644-5050
 PA Arrow Elect Austin.....412-856-7000
 TX Marshall Industries Dallas.....512-835-4180
 TX Arrow Elect Dallas.....214-233-5200
 TX Marshall Industries Houston.....713-789-6600
 TX Marshall Industries Houston.....713-530-4070
 UT Marshall Industries Austin.....512-458-5854
 WA Anthem Electronics SLC.....801-973-8555
 WA Marshall Industries Bellevue.....206-747-9191
 WA Anthem Electronics Redmond.....206-881-0850
 WA Arrow Elect Bellevue.....206-643-4800
 WA Arrow Elect Oak Creek.....414-764-6600
 FR Future Elect Vancouver BC.....604-438-5545
 FR Future Elect Pte Claire PQ.....514-694-7710
 FR Future Elect Ottawa ON.....613-920-8313
 FR Future Elect Downsview ON.....416-638-4717
 FR Zentronics Brampton ON.....416-451-9600
 FR Zentronics Nepean ON.....613-226-8840
 FR Zentronics Waterloo ON.....519-884-5700
 FR Zentronics St Laurent PQ.....514-735-5361
 FR Zentronics Winnipeg MB.....204-775-6661
 FR Zentronics Calgary AB.....403-272-1021
 FR Zentronics Richmond BC.....604-273-5575
 FR Arrow/Canada Montreal PQ.....514-735-5511
 FR Arrow/Canada Quebec PQ.....418-667-4231
 FR Arrow/Canada Nepean ON.....613-226-6903
 FR Arrow/Canada Toronto ON.....416-661-0222

BO-SHERREL CO INC 36133
 NILES BLVD FREMONT CA 94536.....415-792-0354
 V MATHIS EMP 25 ENG 6 \$1,000-\$2,500K

BOSSERT MFG CO 1002 OSWEGO ST
 UTICA NY 13502 TWX 93-7358.....315-797-1600
 T MAZUROWSKI EMP 150 ENG 1 \$5,000-\$10,000K

BOSTITCH DIV TEXTRON INC
 BRIGGS DR EAST GREENWICH
 RI 02818 TWX 927681.....401-884-2500
 S POLLACK EMP 1100 ENG 40 OVER \$10,000K
 CA Bostitch Div Fullerton.....773-5591
 CA Bostitch Div Visalia.....651-4011
 CO Bostitch Div Denver.....744-6073
 GA Bostitch Div Atlanta.....458-2324
 IL Bostitch Div Northbrook.....498-6550

IN Bostitch Div Indpls...	353-2171	CA Harper SID Compton	213-979-5090	TX Pioneer Elect Houston	713-988-5555
MA Bostitch Div Woburn	933-1128	CA Harper SID Santa Clara	408-988-6041	TX Schweber Elect Houston	713-784-3600
MI Bostitch Div Farmington	477-1200	CO Acacia Sales Lakewood	303-232-2882	TX Hamilton/Avnet Irving	214-659-4100
MI Bostitch Div Bloomington	835-2440	CO Hamilton/Avnet Englewood	303-779-9998	TX Hall-Mark Austin	512-258-8848
MO Bostitch Div Maryland Hts	567-6120	CO Newark Elect Denver	303-757-3351	TX Hall-Mark Dallas	214-341-1147
NO Bostitch Div East Rutherford	773-5113	CO Bell Ind Wheat Ridge	303-424-1985	TX Hall-Mark Houston	713-781-6100
NY Bostitch Div E Syracuse	437-1021	CT Hamilton/Avnet Danbury	203-797-2856	TX TTI Ft Worth	214-429-1440
OH Bostitch Div Middleburg Hts	433-1060	CT Schweber Elect Danbury	203-792-3500	TX Harper SID Richardson	214-235-3177
PA Bostitch Div Montgomeryville	643-6200	CT Almo Elect Hamden	203-288-6556	UT Hamilton/Avnet SLC	801-972-2800
PA Bostitch Div Memphis	365-7200	CT Midco Elect Wallingford	203-265-2077	UT Bell Ind SLC	801-972-6969
TX Bostitch Div Dallas	620-8770	CT Pioneer/Avnet Norwalk	203-853-1515	WA Hamilton/Avnet Bellevue	206-643-9950
TX Bostitch Div Richmond	222-3105	CT TTI Stratford	203-375-1400	WA Almac Elect Bellevue	206-643-9950
WA Bostitch Div Tukwila	575-0655	FL Hamilton/Avnet Ft Lauderdale	305-971-2900	WI Taylor Elec Co Mequon	414-241-4321
FR Bostitch Div of Textron		FL Schweber Elect Hollywood	305-927-0511	WI Electronic Expeditors Milw	414-228-8100
Can Ltd Toronto ON	251-3376	FL Pioneer WA Ft Lauderdale	305-771-7520	WI Marsh Elect Milwaukee	414-475-6000
BOSTON DIGITAL CORP GRANITE PARK		FL Hammond Elect Orlando	305-849-6060	WI Hamilton/Avnet New Berlin	414-784-4510
MILFORD MA 01757		FL Hammond Elect Ft Lauderdale	305-973-7103	FR L A Varah Ltd Calgary AB	403-230-1235
TWX 710-346-0156	617-473-4561	FL Hamilton/Avnet St Petersburg	813-576-3930	FR L A Varah Ltd Vancouver BC	604-873-3211
CA Boston Digital Anaheim	714-871-0120	FL Hall-Mark Orlando	305-855-4020	FR Hamilton/Avnet Mississauga ON	416-677-7432
CT Boston Digital Natick	203-739-6983	FL Hall-Mark St Petersburg	813-576-8691	FR Hamilton/Avnet Nepean ON	613-226-1700
CT Boston Digital Schuamburg	312-882-1680	FL Hall-Mark Ft Lauderdale	305-971-9280	FR Electro Sonics Inc Willowdale ON	416-494-1666
MA Boston Digital Sturbridge	617-347-7133	FL TTI Orlando	305-859-1000	FR Hamilton/Avnet St Laurent PQ	514-331-6443
MA Boston Digital Charlotte	704-525-8208	GA Schweber Elect Norcross	404-449-9170	FR Hamilton/Avnet Calgary AB	403-230-3586
MA Boston Digital Middleburg Hts	216-243-2326	GA Hamilton/Avnet Norcross	404-447-7500	FR L A Varah Ltd Winnipeg MB	204-633-6190
TX Boston Digital Dallas	214-234-2027	GA Pioneer Elect Norcross	404-448-1711	FR L A Varah Ltd Hamilton ON	416-561-9311
BOSTON GEAR 14 HAYWARD ST		GA Hall-Mark Norcross	404-447-8000	FR Electronic Wholesalers Ottawa ON	613-746-4413
QUINCY MA 02171	617-328-3300	GA TTI Norcross	404-449-9170	FR Kaytronics Inc Kanata ON	613-592-6606
D MURPHY EMP 500 ENG 150 OVER \$10,000K		IL Newark Elect Chicago	312-638-4411	FR Westburne Intl Entrps Downsville	416-635-2950
For name & location of nearest Boston Gear		IL Schweber Elect Elk Grove Vlg	312-364-3750	FR Electronic Wholesalers	514-769-8851
distributor, call toll-free: 800-343-3353		IL Hamilton/Avnet Bensenville	312-860-8523		
BOSTON SYSTEMS OFFICE INC		IL Pioneer Std Elect Elk Grove Vlg	312-437-9680	BOWMAR/ALI INC 531 MAIN ST	
128 TECHNOLOGY CTR WALTHAM		IL Klaus Radio Peoria	309-691-4840	ACTION MA 01720	
MA 02254-9164 TWX 710-324-0760	617-894-7800	IL Ohm Elect Palatine	312-359-5500	TWX 710-347-1441	617-263-8365
EMP 70 ENG 30 \$2,500-\$5,000K		IN Graham Elect Ft Wayne	219-423-3422	A WARNER EMP 150 ENG 10 \$5,000-\$10,000K	
BOURNS INC RESISTIVE COMPONENTS		IN Graham Elect Indpls	317-634-8202	CA Brooks-Moore Assoc Orange	714-771-1220
GROUP 1200 COLUMBIA AVE		IN Pioneer Elect Indpls	317-849-7300	CA Mollard Marketing Palo Alto	415-961-0456
RIVERSIDE CA 92507		IN Hamilton/Avnet Carmel	317-844-9333	CO Measurement Consultants	
TWX 910-332-1252	714-781-5050	IA Schweber Elect Cedar Rapids	319-373-1417	Wheat Ridge	303-431-2262
C JONES EMP 7000 ENG 200 OVER \$10,000K		KS Hamilton/Avnet Overland Pk	913-888-8900	CT Eastonix Madison	203-421-4514
AE CSR Electronics Huntsville	205-533-2444	KS Hall-Mark Lenexa	913-888-4747	IL Lincoln Hodges & Assoc	
AZ Sheller-Kahn Co Phoenix	602-257-9015	LA Wm B Allen Sply New Orleans	504-525-8222	Des Plaines	312-297-3810
CA Great American Rep Co Encino	813-990-4870	MD Hamilton/Avnet Columbia	301-995-3500	KS Barry Sales Overland Pk	913-642-0270
CA QuadRep Inc San Jose	408-946-4000	MD Pioneer/WA Gaitersburg	301-921-0660	LA Mid-South Sales Baton Rouge	504-924-0106
CA Great American Rep Co Tustin	714-832-8113	MD Schweber Elect Gaitersburg	301-840-5900	ME Bernard Sullivan Assoc Camden	207-236-8394
CA SR Electronics San Diego	619-560-8330	MD Radio Elec Service Co Baltimore	301-997-6337	MD Tyler Griffin Co Columbia	301-995-1215
CO Parker-Webster Co Parker	303-841-4888	MD Radio Elec Service Co Beltsville	202-937-9100	MA Eastonix Bedford	617-275-5775
CO Dyne-A-Mark Ft Lauderdale	305-629-5557	MA TTI Woburn	617-938-8800	MA Amtech Reps Farmington	313-474-8300
CO Dyne-A-Mark Palm Bay	305-727-0192	MA Gerber Elect Norwood	617-769-6000	MA Waltham Sales Co Mnpis	617-781-2778
FL Dyne-A-Mark Clearwater	813-441-4702	MA Hamilton/Avnet Woburn	617-273-7500	MA Barry Sales St Louis	314-821-2525
FL Dyne-A-Mark Altamonte Sprgs	305-831-2097	MA Schweber Elect Bedford	617-275-5100	MI Cosine Inc Plainfield	201-654-3551
FL CSR Electronics Atlanta	404-396-3720	MA Lionex Corp Burlington	617-272-9400	NY Troit Elctns Clarence	716-634-8500
L John G Twist Co Elk Grove Vlg	312-593-0200	MA RC Components Wilmington	617-273-1860	NY Troit Elctns Pittsford	716-586-8251
N Technology Mktg Corp Carmel	317-844-8462	MA Pioneer/Avnet Lexington	617-863-1200	NC Troit Elctns Charlotte	704-376-2237
N Technology Mktg Corp Ft Wayne	219-432-5553	MI Hamilton/Avnet Livonia	313-522-4700	OH J C Hofstetter Co Medina	216-241-4880
N Rep Assoc Corp Cedar Rapids	319-373-0152	MI Pioneer/Std Livonia	313-525-1800	OR Frank Jackson Assoc Portland	503-645-8511
N Technology Mktg Corp Louisville	502-499-7088	MI Hamilton/Avnet Grand Rapids	616-243-8905	J C Hofstetter Co Hickory	412-356-2305
ND Micro-Comp Inc Baltimore	301-247-0400	MI Schweber Elect Livonia	313-525-8100	TX Seaton Corp Carrollton	214-380-0414
ND John E Boeing Co Lexington	617-862-2500	MI RS Elect Livonia	313-525-1155	UT Measurement Consultants SLC	801-364-3174
ND Rathsborg Assoc Detroit	313-882-1717	MN Schweber Elect Edina	612-941-5280	VT Eastonix Shelburne	802-985-3743
ND Mel Foster Tech Sales Edina	612-941-9790	MN Hamilton/Avnet Minnetonka	612-932-0600	WA Frank Jackson Assoc Redmond	206-881-7277
ND CenTech Inc Raytown	813-358-0180	MN Newark Elect Mpls	612-935-6350	WI Lincoln Hodges & Assoc Waukesha	414-542-3087
ND CenTech Inc Bridgeton	314-291-4230	MN Pioneer/MN Minnetonka	612-935-5444		
ND Thomas Assoc Bellmawr	609-933-2600	MO Hamilton/Avnet Earth City	314-344-1200	DISTRIBUTORS	
ND Sheller-Kahn Albuquerque	505-345-3551	MO Hall-Mark Maryland Heights	314-291-5350	CA Metermaster LA	213-685-4340
ND Comtronc Assoc Melville	516-249-0505	NH C & H Elect Hudson	603-882-1133	GA Horton Instrument Atlanta	404-231-3131
ND Bob Dean Inc Ithaca	607-257-1111	NJ Hamilton/Avnet Fairfield	201-575-3390	IL Data Elect Chicago	312-283-0300
ND Bourns Inc Poughkeepsie	914-473-4340	NJ Lionex Corp Fairfield	201-227-7960	LA Mid South Sales New Orleans	504-641-7480
ND CSR Electronics Raleigh	919-787-2137	NJ Hamilton/Avnet Cherry Hill	609-424-0110	MD EIL Baltimore	301-771-4800
ND Bear Mktg Richmond	216-659-3131	NJ Schweber Elect Fairfield	201-227-7880	MN Process Mgmt Co Mnpis	612-544-4035
ND Ammon & Rizos Co Okla City	405-942-2552	NJ General Radio Camden	609-964-8560	NY Integral Cont Sys Newark	201-561-2323
ND Jas J Backer Co Portland	503-297-3777	NJ J-Lar Elect Clifton	201-772-6400	OR Westcon Inc Portland	503-283-0132
ND Jas J Backer Co Salem	503-362-0717	NY Pioneer/Avnet Pine Brook	201-277-1262	PA Electric Tachometer Phila	215-726-7723
ND TX Ammon & Rizos Co Dallas	214-233-5591	NM Electronic Parts Co Albuquerque	505-293-6161	TX Quality Inst Lab Houston	713-524-0528
ND X Ammon & Rizos Co Houston	713-781-6230	NM Hamilton/Avnet Albuquerque	505-765-1500		
ND X Ammon & Rizos Co Austin	512-454-5131	NM Bell Ind Albuquerque	505-292-2700	BOWMAR INSTRUMENT CORP COMMERCIAL	
ND JT Parker Webster Co SLC	801-487-5911	NY Summit Dist Buffalo	716-884-3450	PRODS DIV 4640 126 AVE N	
ND JA Micro-Comp Inc Huddleton	804-247-0040	NY Lionex Corp Hauppauge	516-273-1660	CLEARWATER FL 33520	
ND JA Jas J Backer Co Seattle	206-265-1300	NY Hamilton/Avnet Melville	516-454-6000	TWX 810-863-0375	813-576-2525
ND NA John G Twist Co Brookfield	414-782-2670	NY Hamilton/Avnet Rochester	716-475-9130	W KUNZ EMP 125 ENG 15	
ND R Kaytronics Inc Surrey BC	604-581-7611	NY Schweber Elect Rochester	716-424-2222	CA Comar Co Laguna Beach	714-250-0140
ND R Kaytronics Inc Concord ON	416-669-2262	NY Hamilton/Avnet E Syracuse	315-437-2647	CA Brian De Pierre & Assoc	
ND R Kaytronics Inc Ville St		NY Mast Dist Hauppauge	516-273-4422	San Diego	619-578-2555
Pierre PQ	514-367-0101	NY Schweber Elect Westbury	516-334-7474	IL Electra Sales & Assoc Naperville	312-389-2240
ND Mill-Bern Assoc San Juan PR	809-792-1541	NY Pioneer/Avnet Fairport	516-381-7070	IN Valentine & Assoc Greenwood	317-868-8260
ND R Kaytronics Inc Kanata ON	613-592-6606	NY Pioneer/Avnet Hauppauge	516-231-9200	IA Technical Elctns Cedar Rapids	319-366-5443
		NY Pioneer/Avnet Vestal	607-748-8211	MD Atlantic Tech Sales Churchville	301-879-2236
		NY Pioneer/Avnet Woodbury	516-921-8700	MI OBE Inc W Bloomfield	313-392-4900
		NY TTI Bohemia	516-567-1500	MN JMI Mnpis	612-861-3343
		NC Hamilton/Avnet Raleigh	919-878-0810	NY Pi Tronics Inc Syracuse	315-455-7346
		NC Hammond Elect Greensboro	919-275-6391	OH Scott Elctns Kettering	513-294-0539
		NC Pioneer/WA Charlotte	704-527-8188	OR General Elctns Inc Beaverton	503-641-5288
		NC Hall-Mark Raleigh	919-872-6286	TX J Clay Dallas	214-484-9933
		NC Schweber Elect Raleigh	919-876-0000	WA General Elctns Inc Renton	206-228-9505
		OH Hamilton/Avnet Cleveland	216-831-3500		
		OH Pioneer Cleve Cleveland	216-587-3600	BOWMAR INSTRUMENT CORP FT	
		OH Pioneer-Dayton Dayton	513-236-9900	WAYNE DIV 8000 BLUFFTON RD	
		OH Hamilton/Avnet Dayton	513-433-0610	FT WAYNE IN 46809	
		OH Schweber Elect Beachwood	216-464-2970	TWX 810-332-1510	219-747-3121
		OH CAM/RPC Cleveland	216-461-4700	H BLACK EMP 224 ENG 19 OVER \$10,000K	
		OH Hughes-Peters Columbus	614-294-5351	CA Westaironics Inc Culver City	213-641-4122
		OH Hughes-Peters Cincinnati	513-351-2000	CO Quadra Inc Littleton	303-795-3187
		OK Hall-Mark Tulsa	918-665-3200	IA Aard Sales Hiawatha	319-393-6392
		OK Almac/Elctronics Beaverton	503-641-9070	MA L-K Assoc Haverhill	617-373-1313
		OR Hamilton/Avnet LK Oswego	503-635-8831	MN Electronic Sales Agency	
		PA Almo Elect Phila	215-698-4000	Bloomington	612-884-8291
		PA CAM/RPC Pittsburgh	412-782-2300	NY Bowmar Instrument Matawan	201-526-0400
		PA Pioneer/Standard Pittsburgh	215-441-0600	NY Fountain Young & Co Syracuse	315-437-7733
		PA Schweber Elect Horsham	215-674-4000	TX Robt R Thomas Co Addison	214-233-8235
		PA Pioneer/WA Horsham	814-476-7774	WI JM Sales Milwaukee	414-546-0040
		PA Advacom McKean	512-458-3555	FR Solder Ltd Ottawa ON	613-738-1470
		TX Harrison Equip Austin	512-837-8911		
		TX Hamilton/Avnet Austin	713-975-3516	BOW SOLDER PRODUCTS CO INC	
		TX Hamilton/Avnet Houston	713-879-2600	900 HOBSON ST UNION NJ 07083	
		TX Harrison Equip Stafford	915-779-6647	TWX 844 839	800-526-4577
		TX Ideal Ind Elect Sply El Paso	912-835-4000	R MENKIN EMP 39 ENG 4 OVER \$10,000K	
		TX Pioneer Std Elect Austin	512-458-8253	PA Espy Sales 108 Rydal St Rydal	215-576-0780
		TX Schweber Elect Austin	214-239-2750		
		TX Harrison Equip Dallas	214-386-7300		
		TX Pioneer Std Elect Dallas	214-661-5010		
		TX Schweber Elect Dallas			

DISTRIBUTORS

OK	E B Beach Okla City	405-943-8553
PA	E B Beach Yeadon	215-622-2210
TX	E B Beach Dallas	215-622-2210

BRADY CO W H INDUSTRIAL PRODS DIV

2221 W CAMDEN RD BOX 2131	
MILWAUKEE WI 53201	
TXW 910-262-3151	414-351-6630

AL	G YLLSTROM ENG 11	
W H Brady Co Birmingham	205-324-9196	
AZ	W H Brady Co Phoenix	602-957-1954
CA	W H Brady Co Whittier	213-698-2623
CA	W H Brady Co San Mateo	415-574-5822
CO	W H Brady Co Denver	303-455-6232
CT	W H Brady Co Hartford	203-247-1283
FL	W H Brady Co Miami	305-644-0673
GA	W H Brady Co Chamblee	404-461-1251
IL	W H Brady Co Milw WI	312-827-6108
IN	W H Brady Co Indpls	317-542-8380
IA	W H Brady Co Davenport	319-324-8516
MD	W H Brady Co Fallston	301-291-0782
MA	W H Brady Co Waltham	617-893-8390
MI	W H Brady Co Detroit	313-642-6643
MN	W H Brady Co Mpls	612-926-4666
MO	W H Brady Co KC	816-363-4133
NJ	W H Brady Co Linden	201-733-7274
NY	W H Brady Co Rochester	716-424-3153
NY	W H Brady Co Plainsboro	516-433-6088
NC	W H Brady Co Southmont	704-333-0928
OH	W H Brady Co Chagrin Falls	216-882-5090
PA	W H Brady Co Norristown	215-337-1275
TN	W H Brady Co Memphis	901-682-8283
TX	W H Brady Co Richardson	214-363-3710
TX	W H Brady Co Houston	713-622-2992
VA	W H Brady Co Arlington	703-524-4868
WA	W H Brady Co Medina	206-455-1177

DISTRIBUTORS

CA	R S Hughes Sunnyvale	408-739-3211
CA	Cal Pacific Suppliers LA	818-998-4983
CO	Boulder Wholesale Boulder	303-530-1666
FL	Electronic Equipment Miami	305-871-3500
IL	Prehler Elec Chicago	312-384-6100
IL	Electro-Kinetics Wood Dale	312-595-6700
IN	Graham Electronics Ft Wayne	219-423-3422
MD	Anthony Lee Rockville	301-929-1220
MA	Heiland Electronics Burlington	617-272-5610
MI	Allen Elect Supply Livonia	313-937-1220
MN	Control Design Mpls	612-721-1628
MO	Olive Electronics St Louis	314-426-4500
NJ	Barnes Elect Indus E Rutherford	201-438-2400
NY	Higgins & Sheer Poughkeepsie	914-471-3510
NY	Broadline Electronics Hauppauge	516-231-4100
NC	Southeastern Electronics Raleigh	919-828-2311
OH	Johnston Elect Cincinnati	513-421-3700
PA	Kraus Electric Erie	814-453-5781
TX	Dealers Elec Supply Dallas	214-350-8787
WA	Zepher Electronics Seattle	206-241-1980
WI	Standard Elect Supply Milwaukee	414-272-8100
WI	Zepher Electronics Seattle	206-241-1980

BRADY CO W H XYMOX DIV

8225 W PARKLAND BOX 571	
MILWAUKEE WI 53201	
TXW 910-262-3151	414-355-8300
G EDWARDS	

BRAEGEN CORP 525 LOS COCHES ST

MILPITAS CA 95035		
TXW 910-3387332	408-945-1900	
L VALENTI EMP 350		
CA	Braegen Corp Newport Beach.....	714-756-1294
CO	Braegen Corp Evergreen.....	303-674-2125
IL	Braegen Corp Schiller Park.....	312-671-6126
MA	Braegen Corp Waltham.....	617-890-4890
NY	Braegen Corp New York.....	516-466-6370
OH	Braegen Corp Cleveland.....	216-524-3080
PA	Braegen Corp Philadelphia.....	215-244-0830
TX	Braegen Corp Houston.....	713-956-9417
VA	Braegen Corp Vienna.....	703-442-8500

BRAEMAR CORP 11400 RUPP DR

BURNSVILLE MN 55337		
	TXW 882-169	612-890-5135
A CHAN EMP 140 ENG 10		
AL	Alpha Mktg Huntsville	204-533-0766
CA	Halbar Assoc Glendale	213-246-8263
CA	Halbar Assoc San Mateo	415-349-4700
CO	Andale Inc Lakewood	303-693-4331
CT	Datasource Avon	203-678-0123
FL	Electronic Mkt Corp Casselberry	305-339-7070
GA	Alpha Mktg Tucker	404-491-9430
IL	Brainard-Wilson Mktg Arlington Hts	312-437-2700
IN	Carter McCormick & Peirce Indpls	317-244-1685
MD	Warren Mount Co Bethesda	301-667-9312
MA	Datasource Bedford	617-275-8460
MI	Carter-McCormick-Peirce Farmington	313-477-7700
MN	R K Sales Mpls	612-786-5713
NJ	Neville & Vespo Bogota	201-487-1505
NH	Halbar Assoc Fountain Hills, AZ	602-837-2464
NY	Nycorn E Syracuse	315-437-8343
NC	MacKay Smith & Assoc Raleigh	919-851-5000
OH	Carter-McCormick-Peirce Cleveland	216-779-5100

OR	Tasco Inc Portland	503-245-8168
PA	Warren Mount Co Jenkintown	215-886-0386
WA	Tasco Bellevue	206-453-1414

BRAILSFORD CO INC 670 MILTON RD

RYE NY 10580	914-967-1820
R DRUMMOND EMP 28 ENG 2	
FR Ad Auriema Inc Great Neck NY	516-487-0700

BRANDEN CORP T G 15822

SW UPPER BOONES FERRY RD	
LAKE OSWEGO OR 97034	503-620-7571
T BRANDT EMP 8 ENG 4 \$500-\$1,000K	

BRAND-REX/NONOTUCK DIV CANAL ST

SOUTH HADLEY MA 01075	413-534-0271
C CROOKS EMP 175 ENG 4 OVER \$10,000K	

BRANSON CORP STICKLES POND

RD BOX 147 NEWTON NJ 07860	
TXW 710-988-2298	201-383-3132
J WITZLER EMP 40 ENG 4 \$500-\$1,000K	
CA DeAngelo-Rothman Culver City	213-827-2202
FL Perrott Assoc Orlando	305-298-7748

BRANSON CLEANING EQUIPMENT CO

PARROTT RD SHELTON CT 06484	203-929-7301
EMP 250 ENG 20	
AZ H C Torrey Assoc Phoenix	602-944-0352
CA Branson LA City of Industry	213-960-3938
CA Branson City of Industry	818-369-3938
CO Crump Co Box 3208 Englewood	303-779-1473
FL MacGregor Assoc Clearwater	813-446-7310
GA MacGregor Assoc Marietta	404-973-1692
IL Branson Chicago Arlington Hts	312-981-0199
MA Branson-New England Waltham	617-890-3334
MI Industrial Sys Bloomfield Hills	313-338-7320
MO Process & Con Prods Clark	816-941-2955
NJ Branson Metropolitan Clark	201-388-8600
NY Branson-Rochester Red Creek	716-288-0100
OH RFD Assoc 1276 W 3 St Cleveland	216-781-1855
SC Branson-Carolinas Ft Mill	803-548-4334
TX Branson-Dallas Richardson	214-234-2477
FR Branson Canada Scarborough ON	416-431-4411

BRAXTON MFG CO INC ECHO

LAKE RD BOX 429 WATERTOWN	
CT 06795 TXW 710-477-0621	203-274-6781
J TRIANO EMP 110 ENG 4 \$5,000-\$10,000K	
CA Braxton Mfg Co of Cal Costa Mesa	714-645-7363

BR COMMUNICATIONS BOX 61989

1249 INNSBRUCK DR SUNNYVALE	
CA 94088 TXW 357-484	408-734-1600
J SEDGWICK EMP 181 ENG 25 OVER \$10,000K	
VA BR Communications Alexandria	703-370-1191

BREEZE-ILLINOIS INC 8823

INDUSTRIAL RD PEORIA IL 61615	
TXW 510-390-3691	309-695-2511
P BANAKIS EMP 220 ENG 16 \$5,000-\$10,000K	
AL Hughes Assoc Huntsville	205-533-9108
CA Cal Ward Sales Co Woodland Hills	213-883-2202
CA Camda Newport Beach	714-642-7281
CO Todd & Fry Assoc Longmont	303-776-7331
FL Tech Rep Assoc Clearwater	813-530-1619
IL Cadre Tech Rep Berkeley	415-449-3900
MD Macrotech Assoc Glen Burnie	301-437-5588
MI Pine Sales Inc Madison Hts	313-589-0350
NY J A Kais Assoc Roeboling	609-499-9488
NJ Trionic Assoc Great Neck	516-466-2030
TX Dearmont Enterprises Colleyville	817-267-2048
WA Lehr Assoc Bellevue	206-453-9993

BREL INTL COMPONENTS 1621

UNIVERSITY PKWY SARASOTA	
FL 34243 TXW 525156	813-355-9791
S SHESKEY EMP 15 ENG 1 \$1,000-\$2,500K	
AL Electronic Sales Inc Huntsville	205-533-1735
GA Electronic Sales Inc Norcross	404-448-6554
IL TMI Glenview	312-699-8515
NJ Falk-Baker Assoc Nutley	201-661-2430
NC Electronic Sales Inc Cary	919-467-8486
WA A/D Electronics Kirkland	206-821-3205

BREVET MOTORS INC SUB VERNITRON

CORP BROAD & 16TH ST	
CARLSTADT NJ 07072	
TXW 642-606	201-933-0220
J DOMINICE EMP 700 ENG 12 OVER \$10,000K	

AR Industrial Control & Assoc

El Dorado	501-862-2051
CA Electric Motor Engrg LA	213-469-7393
CO Tech Rep Sales Co Denver	303-758-7031
FL Machine Control Altamonte Sprgs	305-788-6607
IL Jerry Golden Co Chicago	312-725-7870
KS Darco Sales Corp Shawnee Mission	913-236-6711
MI Electroline Livonia	616-392-1186
MN Vikeland Sales St Paul	612-645-4647
NJ Herbert Rude Assoc Teaneck	201-836-6778
NY Upstate Component Sales Rochester	716-288-1080
NC Leigh Sales Raleigh	919-872-1484
OH Sisler & Assoc Bucyrus	419-652-9311
PA Kiley Elec Co Villanova	215-525-4370
TN Hicks Sales Cleveland	615-472-7398

FR	Brevet Motors of Can Ltd	
	Scarborough ON	416-751-2111

DISTRIBUTORS

CA	Minarik Elec L A	213-624-316
IL	Harry Alter Chicago	312-376-3501
MA	Empire Elec Medford	617-395-5051
NJ	Motor & Control Cherry Hill	609-424-5811
OH	Reserve Elec Cleveland	216-771-5761
OR	Johnstone Corp Portland	503-231-4831

BREW & CO INC RICHARD D

90 AIRPORT RD CONCORD	
NH 03301 TXW 530955	603-225-6603
L MARSTON EMP 55 ENG 3 \$2,500-\$5,000K	

BREWER SCIENCE INC BOX GG ROLLA

MO 65401 TXW 361471	314-364-0300
J HUNNINGLAKE EMP 20 ENG 5	

BRIDGE COMMUNICATIONS INC

2081 STERLIN RD MTN VIEW	
CA 94043 TXW 176544-01	415-969-4400
R BUSH EMP 225 ENG 90 OVER \$10,000K	

CA Bridge Communications Newport

Beach	714-476-8841
CO Bridge Communications Englewood	303-796-1241
CT Bridge Communications Danbury	203-790-8081
GA Bridge Communications Norcross	404-662-5191
IL Bridge Communications Oak Brook	312-655-0111
MD Terminal Networks Silver Spring	301-649-6000
MA Bridge Communications Waltham	617-890-6121
NY Bridge Communications New York	212-986-0101
OH Bridge Communications Cleveland	216-333-4541
PA Bridge Communications Doylestown	215-348-0231
TX Bridge Communications Bedford	817-267-4161
VA Bridge Communications McLean	708-883-3791
FR Bridge Communications Toronto ON	416-599-5381

BRIDGEPORT INSULATED WIRE CO

51 BROOKFIELD AVE BRIDGEPORT	
CT 06610	203-333-3191

R PELLETIER EMP 64 ENG 2 \$2,500-\$5,000K

CA Conductors & Dielectrics Fontana	714-685-0811
CT Plankkuch & Co Trumbull	261-3521
IL O'Brien Sales Chicago	777-7211
NJ Ned Krouse Cherry Hill	424-3541
NY Andrews & Andrews Sales Huntington	692-8681
NY Ontec Elctn Mktg Rochester	464-8631
OH R A Staff Co Rocky River	331-5101
TN R A Staff Co Nashville	367-1871
WI TFL Assoc Thiensville	414-242-6801

BRIGHT STAR INDUSTRIES INC

600 GETTY AVE CLIFTON	
NJ 07015 TXW 133312	201-772-3201
T GUINIVAN EMP 475 ENG 20 OVER \$10,000K	
CA Bright Star Industries Vernon	587-6141
GA Bright Star Industries Atlanta	355-3551
IL Bright Star Industries Franklin Pk	451-0941

BRINTEC CORP BRAND-REX CABLE

SYS DIV 1600 W MAIN ST	
WILLMANTIC CT 06226-1128	
TXW 710-440-2247	203-456-8001
J CICHY EMP 900 ENG 20 OVER \$10,000K	
CA Brand-Rex Co San Jose	247-9811
CA Brand-Rex Co Laguna Hills	835-0801
CO Component Prod Sales Boulder	530-2801
FL Ken Stewart Fern Park	305-788-8601
IN Insulation Repts Indpls	251-1991
MD J A Maguire & Co Hanover	796-0971
MA CWS Inc Clinton	368-0751
MI Jos H Clark Sales Farmington Hills	553-0611
MN Grayden & Flemmer Inc Edina	941-1121
MO Durnin & Assoc Chesterfield	532-9771
NJ J A Maguire & Co Pennsauken	665-5131
NY Kirby Mktg Victor	248-8751
OH Jos H Clark Sales Co Chagrin Falls	247-7841
OR Eclipse Mktg Group Beaverton	642-1661
SC Bamco Of Greenwood Greenwood	229-6801
TN Insul-Reps Inc Knoxville	691-7581
TX C J Teller Co Richardson	231-6341
UT Component Prod Sales Woods Cross	292-8881
VA J A Maguire & Co Portsmouth	398-0201
WA Eclipse Marketing Group Redmond	885-6991

DISTRIBUTORS

AZ	Pacer Elect Tempe	602-829-0331
CA	Storm Prods Inglewood	213-649-6141
CA	Storm Prods Santa Clara	408-749-9401
CO	Storm Prods Bloomfield	303-466-1991
FL	KSM Elect Ft Lauderdale	305-971-5901
IL	K S M Elect Addison	312-953-9471
MA	Pacer Elect Woburn	617-935-8331
MN	Berquist Co Edina	612-832-2321
NY	Vertex Elctns Farmingdale	516-293-9801
NY	Pacer Electronics Fairport	716-377-0461
PA	Delphi Elctns Folcroft	215-534-3901
TX	Storm Prods Dallas	214-330-1381
TX	Southwest Cable Garland	214-494-4001
WA	Murphy Elect Redmond	206-881-1231

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BRISTOL BABCOCK INC 40	
BRISTOL ST WATERBURY CT 06708	
TXW 96-2417	203-575-3000
EMP 700	
Bristol Babcock Inc Birmingham	205-979-8113
Unit Process Co Anchorage	907-561-5600
Control Distrib Tempe	602-838-7482
Bristol Babcock Inc W Covina	818-915-7743
Bristol Babcock Inc So San Fran	415-588-2504
Bristol Babcock Inc Denver	303-790-4232
Bristol Babcock Altamonte Spgs	305-339-1883
Bristol Babcock Inc Norcross	404-447-5080
INTROL-Hawaii Inc Honolulu	808-845-8411
Unit Process Co Boise	208-343-1123
Bristol Babcock Inc Oak Brook	312-325-6052
Geo E Booth Co Indpls	317-271-9261
A W Schultz Shawnee Mission	913-362-0265
D & W Systems Sales Kenner	504-466-1692
Linekin Industries E Boothbay	207-633-5363
Bristol Babcock Inc Baltimore	301-795-8220
Bristol Babcock Inc Boston	617-893-5007
Smith Inst & Equip Warren	313-755-3110
Bristol Babcock Inc Brooklyn	
Park	612-533-4945
A W Schultz Co St Louis	314-428-8288
Unit Process Co Billings	406-252-0455
Bristol Babcock Inc Wayne	201-785-4260
Bristol Babcock Inc Wayne	201-785-4260
O R Lawrence Inc Syracuse	315-455-5587
Carolina Controls Co Charlotte	704-558-3040
Process Instruments Marietta	614-373-2854
Bristol Babcock Inc Tulsa	918-744-8360
Unit Process Co Tigard	503-620-3584
Bristol Babcock Inc Pittsburgh	412-787-1913
Bristol Babcock Inc Crossville	615-484-2513
Bristol Babcock Inc Houston	713-957-3400
Con-Tro-Flo Co Woods Cross	801-298-3623
Unit Process Co Spokane	509-747-1106
Process Inst & Equip Charleston	304-776-6200

BRISTOL SAYBROOK CO DIV	
PRATT-READ CORP COULTER ST	
OLD SAYBROOK CT 06475	203-388-3414
G WILLIS EMP 125 ENG 5	
C E Melio Alhambra	213-282-2000
M L Assoc Old Saybrook	203-388-9718
Kirk Sales Largo	813-595-7353
ML Assoc Wayland	617-358-5540

DISTRIBUTORS

Timer Control Engr Serv Arab	205-586-7671
Minarik Electric Phoenix	602-233-3000
Minarik Elec L A	213-624-3161
Minarik Electric San Diego	714-560-6632
Minarik Electric Santa Clara	408-727-0575
Minarik Elect Denver	303-329-3525
Electro Sales Somerville	617-666-0500
AED Dist Sodus	315-483-4061
Minarik Electric Portland	503-253-3402
Minarik Electric San Antonio	512-822-7097

ROADCAST ELECTRONICS INC	
BOX 3606 QUINCY IL 62305	
TXW 25-0142	217-224-9600
B HARLAND EMP 175 ENG 15 OVER \$10,00K	
Riggins Elctns 3272 E Willow	
Long Beach	213-598-7007
Allied Broadcast Equip Richmond	317-862-8596
Northeast Broadcast Labs	
So Glens Falls	518-793-2181
RF Specialties Seattle	206-363-7730

ROCKFIELD WIRE CO INC BOX 248	
BROOKFIELD MA 01506	617-867-6474
W GUERTIN EMP 45 ENG 2 \$2,500-\$5,000K	

ROOKS INSTRUMENT DIV 407	
WINE ST HATFIELD PA 19440	
TXW 84-6181	215-362-3500
W WEIERBACH EMP 544 ENG 23	
Frank A Thomas Co Mobile	205-476-7837
Brooks Instr Div Scottsdale	602-483-2203
A Brooks Instr Div Buena Pk	714-994-2300
A Brooks Instr Div San Jose	415-792-0800
Process Control Dynamics	
Lakewood	303-237-0443
Le Roy Rogers Co Ruskin	813-645-1453
Brooks Instr Div Norcross	404-446-9188
Berkley Eng & Equip Co Honolulu	808-845-9377
Brooks Instr Div Willowbrook	312-655-3420
Geo E Booth Co Indpls	317-271-9261
Miller Mech Specialties	
Des Moines	515-243-4287
Donovan Controls Louisville	602-897-0664
A Petro Chem Equipment Baton Rouge	504-927-4380
King Gage Engrg Corp Natick	617-655-5005
Smith Instr & Equip Co Warren	313-755-3110
Wm E Young Co Fridley	612-757-0244
Brooks Instrument Div Teaneck	201-86-7988
J O R Lawrence Co Buffalo	716-839-4422
C Robert S Hudgins Co Charlotte	704-366-4887
Brooks Instrument Div Cleveland	216-663-3996
Ernie Graves Co Tulsa	918-584-4708
A Brooks Instr Div Memphis	215-542-9960
N Automatic Cont Tech Knoxville	615-966-0969
X Brooks Instr Div Houston	713-784-4930

UT Process Instr & Controls S L C	801-262-5568
VA Dynamation Inc Richmond	804-794-7667
WA Seaport Controls Edmonds	206-775-2580
WV Process Inst Inc Charleston	304-766-6200
WI Jensen Reynolds Corp Milwaukee	414-351-1100
FR Brooks Instr Div Lachine PQ	514-637-3715
FR Brooks Instrument Div Markham	416-294-9340
FR M R Franceschini Santurce, PR	809-725-7080

BROOKS MFG CO 2016-24 AMBER ST	
PHILADELPHIA PA 19125	215-425-3395
G BROOKS EMP 45 ENG 2 \$1,000-\$2,500K	

BROOMFIELD LABORATORIES	
BOX 167 ROUTE 110 BOLTON	
MA 01740	617-368-0931
B SMITH	

BROWN MFG LTD 31 PROGRESS AVE	
SCARBOROUGH ON M1P 4S6	416-298-0560

B R POWER SYSTEMS 20361	
PRAIRIE ST CHATSWORTH	
CA 91311	818-701-1857
A MCLEROY EMP 10 ENG 2 \$250-\$500K	

BRUCE DIAMOND CORP LOWER	
COUNTY ST BOX 478 ATTLEBORO	
MA 02703	617-222-3755
R CULGIN EMP 100 ENG 4 \$2,500-\$5,000K	

BRUCE ELECTRIC EQUIPMENT CORP	
131 AKRON ST BOX 558	
LINDENHURST NY 11757	516-226-2424
B HASNAS EMP 10 ENG 2 \$2,500-\$5,000K	

BRUCE INDUSTRIES INC 17803	
LA SALLE AVE GARDENA CA 90248	
TXW 910-346-6745	213-321-2677
S DEIBEL EMP 150 ENG 15 \$2,500-\$5,000K	
KS Vince Hughes Co Overland Pk	913-451-6296
TX Vince Hughes Co Dallas	214-239-6488
WA Patco Bellevue	206-641-7747
FR Abercorn Aero Ltd Dollard	
des Ormeaux PQ	514-683-8424

BRUCE PLASTICS INC BOX	
4547, DEPT 16 PITTSBURGH	
PA 15205	412-787-2100
EMP 100 ENG 5	

CA Saltzberg Bros Los Angeles	213-653-3042
CA Bay Area Sales Mt View	415-959-7959
IL Granat Industries Chicago	312-539-4722
NJ H Joffe Cranbury	609-655-9197
NC Skytronic Fairview	704-628-2191
OH Allied Enterprises Cleveland	216-779-0080
PA TCA Assoc Broomall	215-353-2022
TN Shipley Sales Co Chattanooga	615-756-3734
TX Stasco Dallas	214-249-4517
FR Syncan Agencies Mount Royal PQ	514-340-1197
FR Syncan Agencies Toronto ON	416-783-8397

DISTRIBUTORS

CA Fastening Systems Temple City	818-576-4600
BRUEL & KJAER INSTRUMENTS INC	
185 FOREST ST MARLBORO	
MA 01752 TXW 710-347-1187	617-481-7000
G MICHEL EMP 150 ENG 12 OVER \$10,000K	

AZ Trembly Assoc Tempe	602-967-2058
CA Bruel & Kjaer Anaheim	714-978-8066
CA Bruel & Kjaer Foster City	415-574-8100
CO Bruel & Kjaer Arvada	303-424-0108
GA Bruel & Kjaer Atlanta	404-951-0115
HI J C Electronics Honolulu	808-841-5526
IL Bruel & Kjaer Hoffman Estates	312-358-7582
MD Bruel & Kjaer Gaithersburg	301-948-0494
MI Bruel & Kjaer Livonia	313-522-8600
NJ Bruel & Kjaer West Caldwell	201-227-6100
NM Trembly Assoc Albuquerque	505-266-8616
TX Bruel & Kjaer Houston	713-645-0167
WA Bruel & Kjaer Seattle	206-625-1112

BRULIN & CO INC BOX 270-B	
INDIANAPOLIS IN 46206	
TXW 27-2239	800-428-7149
J KIRK EMP 125 ENG 3	
CA Bruelin & Co Box 698 San Pablo	
FL Bruelin & Co 104 N 13 St Tampa	
NJ Bruelin & Co Box 389 Westwood	

BRUNSWICK INSTRUMENTS 384B	
STIRLING DR CRANBURY NJ 08512	609-695-5292
E HORODNER EMP 2 ENG 1 UP TO \$100K	

BRUNSWICK TECHNICS 4116	
SORRENTO VALLEY BLVD SAN DIEGO	
CA 92121 TXW 910-335-1706	619-455-7260
S HIMES EMP 60 ENG 10	

BRUSH FUSES INC 105 NEWFIELD	
CTR BOX 6433 EDISON NJ 08818	201-225-2262
S WARE EMP 15 ENG 2 \$2,500-\$5,000K	
AL RW Mitscher Co Huntsville	205-882-6050
CA Westpower Agoura	818-706-2550
CA Westpower Laguna Hills	714-380-0277

FL Boggs Assoc Oldsmar	813-855-1812
GA RW Mitscher Co Lawrenceville	404-923-3239
IL L & W Power Downers Grove	312-852-6414
NJ East Power Basking Ridge	201-766-7886
NY Lynn Assoc Buffalo	716-631-0055
NC RW Mitscher Co Raleigh	919-848-0941
OH L & W Power Kettering	513-293-3482
PA L & W Power Greensburg	412-836-4388
TX RW Mitscher Co Johnson City	615-929-7258
WI L & W Power Elm Grove	414-782-0799

DISTRIBUTORS

FL MRO Elect Distr Hollywood	800-237-8676
NC JMT Elctns & Cont Gastonia	800-438-8367

BRUSH INDUSTRIES INC BOX	
638 THIRD & REAGAN SUNBURY	
PA 17801-0638 TXW 510-655-0222	717-286-5611
F SIEMSEN EMP 100 ENG 10 \$2,500-\$5,000K	
MD Imagination Sales Box 70 Monkton	
NY G M Moch Co 7 Woodland Larchmont	
TX Oeler & Menelaides 8340 Meadow Dalls	

BRUSH WELLMAN INC 17876	
ST CLAIR AVE CLEVELAND	
OH 44110 TXW 810 421-8826	216-486-4200
W POWELL EMP 1900 OVER \$10,000K	
ADV PG 80	

CA Brush Wellman LA	213-679-3634
CT Brush Wellman Glastonbury	203-633-2500
IL Brush Wellman Elmhurst	312-832-9650
MI Brush Wellman Detroit	313-886-0900
NJ Brush Wellman Fairfield	201-227-2552
OH Brush Wellman Cleveland	216-486-4200
FR Brush Wellman GmbH Stuttgart W Germ	
FR Brush Wellman Ltd Choyoda-ku Tokyo	

BTC ELECTRONIC COMPONENTS INC	
BOX 643 JOCAMA BLVD	
OLD BRIDGE NJ 08857 TXW 467907	201-536-8000
T SMALL EMP 32 \$5,000-\$10,000K	

DISTRIBUTORS

AL MSC Tuscumbia	205-383-6850
AZ Ken Maynard & Assoc Phoenix	602-581-8107
CT Centaur Entrps New Fairfield	203-746-4421
FL Technical Prod Sales Satellite	
Bch	305-777-3937
MA Tech Sales Holliston	617-429-4223
MN Marsh Sales Minneapolis	612-729-9345
NJ CM Morse Svcs Little Ferry	201-440-9286
NJ Fleming Sales & Assoc Moorestown	609-235-1319
VT Tech Sales Essex Junction	802-879-9151

BTU ENGINEERING CORP 23	
ESQUIRE DR NORTH BILLERICA	
MA 01862 TXW 94-7489	617-667-4111
D BARRY EMP 750 ENG 30 OVER \$10,000K	
AZ BTU Engrg Corp Prescott	602-445-1637
CA BTU Engrg Corp San Jose	408-294-2223
IL BTU Engrg Corp Willowbrook	312-887-7788
NJ BTU Engrg Corp Mtn Lakes	201-335-0303
PA BTU Engrg Corp Scranton	717-347-3535
TX BTU Engrg Corp Dallas	214-783-2403

BUBBL-TEC 6800 SIERRA CT DUBLIN	
CA 94568 TXW 910-389-6890	415-829-8700
T NETOFF EMP 16 ENG 8	

BUCHANAN CRIMP TOOL PRODUCTS	
1065 FLORAL AVE UNION	
NJ 07083 TXW 13-8214	201-289-2225
J NOSTI	

BUCKEY STAMPING CO 555	
MARION DR COLUMBUS OH 43207	614-445-8433
J WILLCOX EMP 75 ENG 4	
CA P Nurches Co Pasadena	213-681-8957
CA Engineering Assoc Santa Clara	408-988-5001
CO G Moss Elctns Denver	303-455-7205
GA Par Assoc Atlanta	404-391-9117
IL Robt Adams Sales Mt Prospect	312-297-8733
KS Midtech DeSoto	913-441-6565
MA Elctn Comps & Service Belmont	617-484-8680
MN A J Warner Co Mnpis	612-729-7371
NY P Sattler Assoc Lynbrook	516-593-7880
OH McFadden Sales Columbus	614-459-1280
PA T Griffin Co Paoli	215-647-1550
TX Advance Technical Sales Dallas	214-340-1300
WA Doran Sales Assoc Forest Grove	503-357-3333

BUCKMINSTER CORP 872 MASSACHUSETTS	
AVE CAMBRIDGE MA 02139	617-864-2456

BUDD CATO ASSOC INC 617	
UNION AVE BRIELLE NJ 08730	201-528-7439
EMP 27 ENG 3 \$2,500-\$5,000K	

BUD INDUSTRIES INC 4605 E 355 ST	
WILLOUGHBY OH 44094	
TXW 810-427-2604	216-946-3200
B HAAS EMP 200 ENG 6 OVER \$10,000K	
ADV PG 173	

AL Cartwright & Bean Co Huntsville	205-830-1540
AZ Bill Earl Assoc Scottsdale	602-994-3813
CA Berman-Gravley Co Costa Mesa	714-549-2122




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CO	Lindberg Co Denver	303-758-9033
CT	Newscott Co Yalesville	203-265-4428
FL	Cartwright & Bean Orlando	305-422-4531
GA	Cartwright & Bean Atlanta	404-233-2939
IL	IRI Chicago	312-647-7755
IN	Technology Mktg Skokie	317-967-8430
IA	PMR Corp Cedar Rapids	319-362-9177
KS	PMR Corp Overland Park	913-381-0004
KY	Technology Mktg Louisville	502-499-7808
LA	Cartwright & Bean Covington	504-892-1780
MA	Newscott Co Needham Hts	617-444-1923
MI	Jack M Thorpe Co E Detroit	313-779-6363
MN	Gibb Elctn Sales Minnetonka	612-935-4600
MN	Boerger & Assoc Minneapolis	612-560-3435
MS	Cartwright & Bean Jackson	601-981-1170
MO	PMR Corp St Louis	314-569-1220
NJ	Trinkle Sales Cherry Hill	609-795-4200
NM	Lindberg Co Albuquerque	505-881-1006
NY	Pitronics Inc Syracuse	315-455-7346
NY	Willgold Sales Corp E Orange	201-678-7700
NC	Cartwright & Bean Charlotte	704-377-5673
OH	Marlow Assoc Cleveland	216-991-6500
OK	Lindberg Co Oklahoma City	406-682-2947
OR	Earl & Brown Co Portland	503-245-2283
PA	Marlow Assoc Pittsburgh	412-367-8886
TN	Cartwright & Bean Memphis	901-276-4442
TX	Erickson Sales Houston	713-266-1604
UT	Lindberg Co SLC	801-467-1794
WA	Earl & Brown Co Seattle	206-284-1121
WI	IRI Milwaukee	414-259-0965
FR	Gidden-Morton Assoc Mississauga ON	416-671-8111

BUDWIG MFG CO BOX 829 RAMONA CA 92065	619-789-0900
L COCHRAN	

BUEHLER PRODUCTS INC BOX 33400 RALEIGH NC 27606	
TWX 510-928-0549	919-469-8522
F SLIGHTOM EMP 600 ENG 25 OVER \$10,000K	

BUHL INDUSTRIES INC 14-01 MAPLE AVE FAIR LAWN NJ 07410	
TWX 710-988-5911	201-423-2800
M KYHL EMP 100 ENG 6 \$2,500-\$5,000K	

BUHL OPTICAL 1009 BEECH AVE PITTSBURGH PA 15233	
I STAPSY EMP 60 ENG 5	412-321-0076

BUREAU OF ENGRAVING INC INDUSTRIAL DIV 3311 BROADWAY NE MINNEAPOLIS MN 55413	
TWX 910-576-2733	612-623-0900
D CHAYER EMP 850 ENG 650 OVER \$10,000K	

BURGESS SWITCH CO INC 638 ANTHONY TR BOX 1186 NORTHBROOK IL 60062 TWX 206774	
R DICK EMP 1500 ENG 150	312-291-1760

BURLING INSTRUMENT CO INC 23 RIVER RD BOX 298 CHATHAM NJ 07928	
R NATION EMP 30 ENG 3 \$1,000-\$2,500K	201-635-9481

AL	C B Metcalf Co Catonment FL	904-968-5500
AR	Gilbert & Assoc Benton	501-778-5699
CA	Prime Controls Costa Mesa	714-550-6800
CA	Claypool Controls Co Mt View	415-968-7488
CO	Conley Equip Co Denver	303-296-0320
FL	Dataprep Orlando	305-843-5224
GA	Southern Combustion Atlanta	404-252-8656
IL	Applied Thermal Sales Bolinbrook	312-739-7600
LA	Gilbert & Assoc New Orleans	504-733-9301
MD	Adcons Inc Baltimore	301-655-5542
MI	CVA Inc Dearborn Hts	313-274-4959
MN	Industra Co Mpls	612-835-5535
MO	Edw Thompson Co KC	800-892-2999
NE	H G Klug Co Inc Omaha	402-397-8910
NH	Compline Co Chester	603-887-3515
NJ	RJM Sales Inc Scotch Plains	201-322-7880
NY	H C Johnson Agencies Rochester	716-586-0777
NC	Brown & Morrison Charlotte	704-554-8570
OH	Franklin W Kirk Co Cleveland	216-226-1970

OK	Ernie Graves Co Tulsa	918-584-4707
OR	Set Point Control Portland	503-255-2775
PA	White/Whiddett Co Edgemont	215-353-6343
TN	Gilbert & Assoc Memphis	901-767-7894
TX	Pan-Tech Engrg Co Sugarland	713-240-1220
UT	Conley Equip Co SLC	801-363-9822
VA	Advance Control Expt Co Richmond	804-264-7100
WA	Set Point Control Inc Kirkland	206-821-4555
FR	Baker Instruments Ltd Concord ON	416-738-4780
FR	Master-Wright New Haven CT	203-288-1638
FR	J Sherman Vancouver BC	604-254-3113

BURNDY CORP RICHARDS AVE NORWALK CT 06856	
TWX 710-468-2546	203-838-4444
EMP 3500 ENG 300 OVER \$10,000K	

BURNS ENGINEERING INC 10201 BREN RD E MINNETONKA MN 55343	
TWX 29-0184	612-935-4400
J LACEY	

BURNWORTH TESTER CO 31943		
AMARAL ST. HAYWARD CA 94544		
TWX 276509		415-489-3994
A WHITE EMP 10 ENG 1 \$100-\$250K		
CA	Aimcor Fullerton	714-870-9603
FL	P Seligman Miami	305-887-8039
NY	Gold Cutler Org New York	212-265-1300
OH	Madison Equip Co Cleveland	216-391-7776
WA	C W Fox Assoc Woodinville	206-776-3936

DISTRIBUTORS		
CA	Kellogg-Justice Sales San Carlos.....	212-265-1300
NJ	P I Hersh Sales West Caldwell	201-228-2011

BURR-BROWN CORP BOX 11400 TUCSON AZ 85734	
TWX 910-952-1111	602-746-1111
T FERN EMP 1500 ENG 100 OVER \$10,000K	

CA	Burr-Brown Santa Ana	714-835-0712
CA	Burr-Brown San Jose	408-559-8600
CO	Burr-Brown Loveland	303-663-4440
FL	Conley & Assoc Oviedo	305-365-3283
IL	Burr-Brown Addison	312-832-6520
IA	REP Assoc Marion	319-373-0152
KS	BC Elect Sales Kansas City	913-342-1211
MD	Marktron Inc Rockville	301-251-8990
MA	Burr-Brown Burlington	617-273-9022
MI	Burr-Brown Farmington	313-474-6533
MN	Electronic Sales Agency Bloomington	612-884-8291
MO	BC Elect Sales St Louis	314-521-6683
NM	Vermillion Sales Albuquerque	505-883-3668
NY	Advanced Components Corp N Syracuse	315-699-2671
NY	Burr-Brown Yonkers	914-964-5252
NC	Murcota Corp Winston-Salem	919-722-9445
OH	Burr-Brown Dublin	614-764-9764
PA	QED Elctns Willow Grove	215-657-5600
TX	Burr-Brown Houston	713-988-6546
UT	Aspen Sales SLC	801-467-2401
VA	Marktron Inc Charlottesville	301-251-8990
WA	Burr-Brown Bellevue	206-455-2611
FR	Allan Crawford Assoc Mississauga ON	416-890-2010

BURTEK 7041 E 15TH ST BOX 1677	
TULSA OK 74101 TWX 49-2438.....	918-836-4621
D SANBORN EMP 400 ENG 150 OVER \$10,000K	
OH J W Burke Jr New Vienna.....	513-987-2991
VA B Axtell Williamsburg.....	804-220-0440

BURTON PLATING CO 6341 ARIZONA CIRCLE LOS ANGELES CA 90045	
J BARTON EMP 85 ENG 1	213-776-4090

BUSSCO INC 119 STANDARD ST EL SEGUNDO CA 90245	
TWX 910-348-6295	213-322-6580
D BUSCEMI EMP 82 ENG 7 \$2,500-\$5,000K	

AZ	Jarko Assoc Phoenix	602-243-4387
CA	Electronic Technology Orange	714-998-9241
FL	Southern Elect Mktg Casselberry	305-831-2822
IL	Rampco Sales Harwood Hts	312-867-7362
MA	Reliable Sales Brookline	617-738-8305
MN	D A Case Assoc Bloomington	612-888-8666
NY	Trionic Assoc Great Neck	516-466-2300
PA	Jacobsen Assoc Hatboro	215-674-2937
TX	P J Scanlon Co Dallas	214-231-4661

BUSSMANN DIV COOPER INDUSTRIES		
BOX 14460 ST LOUIS MO 63178		
TWX 044-841		314-394-2871
G OCKULY OVER \$10,000K		
AL	Cartwright & Bean Huntsville	205-830-1540
AZ	More Sales Assoc Phoenix	602-265-9201
CA	Bassett Sales Corp No Hollywood	213-877-7129
CA	Mouthrop Sales Inc Pleasanton	415-846-0055
CO	Lindberg Co Denver	303-758-9033
FL	Cartwright & Bean of FL Orlando	305-422-4531
GA	Cartwright & Bean of GA Atlanta	404-233-2939
IL	Sumner Inc Rolling Meadows	312-991-8500
IN	Marketing Engineers Indpls	317-872-5668
LA	Cartwright & Bean Kenner	504-466-0020
MA	Anderson Sales Assoc Braintree	617-848-9194
MI	Shalco Inc Ferndale	313-547-4773
MN	Gibb Elctn Sales Minnetonka	612-935-4600
MS	Cartwright & Bean Jackson	601-981-1170
MO	Lowell-Kangas & Assoc St Louis	314-821-4050
NJ	ABS Inc Englewood	201-871-0600
NJ	Trinkle Sales Inc Cherry Hill	609-795-4200
NM	Lindberg Co Albuquerque	505-881-1006
NY	Paston-Hunter Co Syracuse	315-437-2993
NC	Cartwright & Bean Charlotte	704-377-5673
OH	Dolffuss-Root & Co Dayton	513-433-6778
PA	Dolffuss-Root Co Bridgeville	412-221-4428
TN	Cartwright & Bean of TN Memphis	901-276-4442
TX	J Y Schoonmaker Co Dallas	214-349-1850
UT	Lindberg Co SLC	801-969-2400
WI	Sumner Inc Brookfield	414-784-6641

BUTLER MFG CO CONTROLS DIV BOX 659 REDMOND WA 98073-0659 TWX 15-2378	
T THOMSEN EMP 100 ENG 20	206-823-7100

BYCAP INC 5115 N RAVENSWOOD AV CHICAGO IL 60640	
K YAHIRO EMP 14 ENG 4 \$500-\$1,000K	312-561-4976

BYTE PUBLICATIONS INC 70 MAIN ST PETERBOROUGH NH 03458	
TWX 127-960	603-924-9281
D RILEY EMP 130	

BYTEX CORP 120 TURNPIKE RD		
SOUTHBORO MA 01772		617-480-0840
T MACKINSON EMP 230		
CA	Bytex Corp San Francisco	415-954-8524
CA	Bytex Corp Long Beach	213-494-0951
GA	Bytex Corp Atlanta	404-873-2280
IL	Bytex Corp Hillside	312-544-3377
NY	Bytex Corp New York	212-319-8440
TX	Bytex Corp Kingwood	713-359-2666
VA	Bytex Corp Reston	703-620-0381

BYTRONIX CORP 2701 E CHAPMAN FULLERTON CA 92631	
TWX 681-428	714-871-8763
M GRINDEY EMP 22 ENG 3 \$5,000-\$10,000K	

DISTRIBUTORS		
MI	General Computer Engrg Co Oak Park	313-968-1200

CABLE SYSTEMS INC 210 BROADWAY EVERETT MA 02149	
TWX 710-348-1760	617-389-7080
A TAYLOR EMP 225 ENG 5 \$5,000-\$10,000K	

DISTRIBUTORS	
ID	
NC	

CABLEWAVE SYS DIV CELWAVE SYS INC 60 DODGE AVE NORTH HAVEN CT 06473 TWX 710-465-0244	
K ROBINSON EMP 200	203-239-3311

CABOT CORP BOX 1462 READING PA 19603 TWX 510-651-0106	
EMP 1000 OVER \$10,000K	215-371-3600

CA	KBI Anaheim	714-978-3351
IL	KBI Glen Ellyn	312-790-3330
NJ	KBI Parsippany	201-263-4650
NC	KBI Raleigh	919-781-3313
PA	KBI Pittsburgh	412-784-8880
WA	KBI Tacoma	206-475-9343

CABOT CORP BERYLLIUM PRODS	
BUSN UNIT BOX 1296 READING	
PA 19603 TWX 510-651-0677.....	800-523-8268
EMP 1500 OVER \$10,000K	
CA Cabot Anaheim.....	714-978-1775

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MN	Mead Metals Inc St Paul	612-484-1400
MO	Joseph A Crowe & Co St Louis	314-677-1700
NJ	Rancocas Metals Corp Rancocas	609-267-4120
NY	Manhattan Brass & Copper Maspeth	212-381-5300
PA	Williams & Co Pittsburgh	412-237-2211
RI	Clifford Metal Sales Providence	401-861-4100
WA	Alaskan Copper & Brass Co Seattle	206-623-5800
WI	Pegg Metals Inc Brookfield	414-786-1730
FR	Atlas Alloys Toronto ON	416-622-3100
CABTRON SYSTEMS INC 200		
	N ANETS DR NORTHBROOK IL 60062	312-498-6090
	EMP 45 ENG 1 \$2,500-\$5,000K	
AL	Remco Huntsville	205-533-3763
AZ	Sierra Tech Groups Las Cruces	505-524-8092
CA	Warren Assoc Santa Clara	408-988-7762
CA	Components Mktg Assoc Lomita	213-326-1460
CO	Sierra Tech Group Englewood	303-741-0227
FL	Burke Assoc Largo	813-584-5699
MD	Anseli Engng Co Silver Springs	301-949-1855
MA	MECO Reading	617-944-6660
MI	Lowell-Wendt Mktg Co Livonia	313-464-2722
MN	Countryman Assoc St Paul	612-645-9151

MO	Production Automation Inc St Charles	314-441-6600
NJ	Components for Elect Mt Lakes	201-334-2921
NM	Sierra Tech Groups Albuquerque	505-294-8408
NY	Ossmann Inst E Syracuse	315-437-6666
OH	Geotronics Inc Cleveland	216-526-2535
PA	Centurion Linear Albrightsville	717-722-0166
TX	Dunbar Assoc Dallas	214-239-7151
CADDELL-BURNS MFG CO INC		
	40 E 2ND ST MINEOLA NY 11501	516-746-2310
	S BURNS EMP 30 ENG 3 \$500-\$1,000K ADV PG 100	
CADDELL COIL CORP 35 MAIN ST		
	POULTNEY VT 05764 TWX 752092	802-287-4055
	J CADDELL EMP 5 ENG 1 ADV PG 101	
CADDOCK ELECTRONICS INC		
	1717 CHICAGO AVE RIVERSIDE CA 92507 TWX 910-332-6108	714-788-1700
	F GRIMES EMP 300 ENG 5 OVER \$10,000K	
OH	Arthur H Baier Co Cleveland	216-461-6161
OR	Electronic Sources Tigard	503-684-0040
WA	Electronic Sources Bellevue	206-451-3500
DISTRIBUTORS		
TX	Lenert Co Houston	713-225-1465
CADIC INC 7874 SW NIMBUS AVE		
	BEAVERTON OR 97005	503-626-7902
	D THOMSON	
CADNETIX CORP 5757 CENTRAL AVE		
	BOULDER CO 80301	303-444-8075
	L STROUP EMP 240	
AZ	Cadnetix Corp Mesa	602-820-5826
CA	Cadnetix Corp Santa Clara	408-986-1777
CA	Cadnetix Corp Newport Beach	714-476-2866
CO	Cadnetix Corp Denver	303-758-5400
FL	Cadnetix Corp Orlando	305-851-8770
GA	Cadnetix Corp Atlanta	404-952-5164
IL	Cadnetix Corp Schaumburg	312-397-4840
MA	Cadnetix Corp Bedford	617-275-3380
MN	Cadnetix Corp Eden Prairie	612-941-2124
NJ	Cadnetix Corp Cranbury	609-655-7400
NY	Cadnetix Corp Melville	516-752-7755
TX	Cadnetix Corp Dallas	214-869-0141
VA	Cadnetix Corp Vienna	703-790-5676
WA	Cadnetix Corp Bellevue	206-451-1569
FR	Cadnetix Corp Mississauga ON	416-272-1045
CADO SYSTEMS CORP 2055 W 190 ST		
	TORRANCE CA 90504 TWX 66-4711	213-323-8170
	D ELLIOTT EMP 350 ENG 30 OVER \$10,000K	
CAERE CORP 100 COOPER CT		
	LOS GATOS CA 95030	
	TWX 910-597-5391	408-395-7000
	C MALONEY EMP 70 ENG 7	
CA	Caere Corp Santa Clara	408-496-6110
CA	Caere Corp Irvine	714-833-1990
IL	Caere Corp Oakbrook Terrace	312-953-9050
LA	Caere Corp Baton Rouge	504-927-7278
MA	Caere Corp Taunton	617-824-6830
NJ	Caere Corp Toms River	201-244-5100
CAIG LABS INC 1175-0 INDUSTRIAL		
	AV BOX J ESCONDIDO CA 92025	619-743-7143
	EMP 12 ENG 4 \$500-\$1,000K	
CA	P Dooley Co 39128 N Shore Dr Fawnskin	714-866-3413
IL	J Clark 501 W Hellen Rd Palatine	312-358-5095
NY	W & A Holland Inc 98 Cutter Mill Great Neck	516-487-8877
CALCOMP 2411 W LA PALMA AVE		
	ANAHEIM CA 92801 TWX 910 591-1154	714-821-2000
	L SANDERS EMP 3500 ENG 180 OVER \$10,000K	
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CO	CalComp Denver	303-770-1950
DC	CalComp McLean VA	703-442-8404
FL	CalComp Altamonte Springs	305-331-4615
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KS	CalComp Shawnee Mission	913-362-0707
MA	CalComp Waltham	617-890-0834
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MN	CalComp Bloomington	612-854-3448
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NJ	CalComp Woodbridge	201-636-6500
NC	CalComp Charlotte	704-372-8377
OH	CalComp Dayton	513-276-5247
OR	CalComp Portland	503-230-2820
PA	CalComp Wayne	215-688-3405
TX	CalComp Houston	713-530-9167
WA	CalComp Bellevue	206-641-9669
CALDWELL SYSTEMS CORP 2570		
	SAN RAMON VALLEY BLVD, BOX 617 SAN RAMON CA 94583	415-833-1850
	B BEDELL EMP 10 ENG 4 \$1,000-\$2,500K	

CALEX MFG CO INC 3355 VINCENT RD		
	PLEASANT HILL CA 94523	
	TWX 338506	415-932-3911
	S MATHIAS EMP 48 ENG 5 \$1,000-\$2,500K	
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CT	Dynamic Sales Collinsville	203-693-6567
MA	Dynamic Sales Burlington	617-272-5676
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WA	Topp Eng Sales Bellevue	206-747-5400
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	W BURTON EMP 15 ENG 2 \$1,000-\$2,500K	
CALIFORNIA AVIONICS LABS INC		
	BOX 701 PALO ALTO CA 94302	415-328-7999
	K HIRSCHBERG EMP 11 ENG 2 \$500-\$1,000K	
CALIFORNIA DATA CORP 3475		
	OLD CONEJO RD NEWBURY PARK CA 91320	805-498-3651
	D COHEE EMP 17 ENG 6 \$2,500-\$5,000K	
CALIFORNIA DC 2150 ANCHOR CT		
	NEWBURY PARK CA 91320	818-706-8221
	C PATON EMP 100 \$5,000-\$10,000K	
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CA	Quadrep Inc Irvine	714-261-8141
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MA	Jebco Lexington	617-862-2500
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OR	Crown Elctn Sales Portland	503-620-8320
TX	Technology Sales Co Dallas	214-380-0200
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CA	Cetec Electronics South Gate	213-773-6521
OR	Micro Power Wilsonville	503-694-5353
CALIFORNIA INSTRUMENTS		
	5150 CONVOY ST SAN DIEGO CA 92111 TWX 695047	619-279-8620
	D CHILCOAT EMP 105 ENG 19 \$5,000-\$10,000K	
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AZ	Aztec Entprs Phoenix	602-944-9185
CA	Scientific Devices San Jose	408-554-0455
CA	Scientific Devices Huntington Beach	714-840-3501
CO	Aztec Entprs Denver	303-779-5285
FL	Saber Inc Melbourne	800-432-6288
GA	Saber Assoc Norcross	800-327-0853
IL	Electronic Instr Assoc Park Ridge	312-298-2290
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KS	Midtec Assoc De Soto	913-441-6565
LA	Sesco Inc Baton Rouge	504-928-4951
MA	Mc Bar Assoc Waltham	617-890-0233
MN	Hei-Lite Sales Mpls	612-861-6051
MO	Midtec Assoc Florissant	314-837-5200
NJ	Scientific Devices Inc Teaneck	201-837-1004
NM	Aztec Entprs Albuquerque	505-262-1688
NY	M P Andrews Fayetteville	315-637-3144
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CA	Helfrich Co Newport Bch	714-631-2300
GA	California Microwave Inc Norcross	404 441-0205
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TX	California Microwave Inc Quinlan	214-475-4348
UT	California Microwave Inc SLC	801-484-9132
WA	Control Q Inc Redmond	206-881-7473
WA	Thorsen Co Bellevue	206-455-9180
CALLAN DATA SYSTEMS 2645		
	TOWNSGATE RD WESTLAKE VILLAGE CA 91361 TWX 910-336-1685	805-497-6837
	B HUGNAGEL EMP 65 ENG 20	
DISTRIBUTORS		
CA	Western Scientific San Diego	619-565-6699
CA	Qualtech Assoc Palo Alto	415-494-9060
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NH D A Crowley & Assoc Milford..... 603-673-8274
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CAMBRIDGE MA 02140..... 617-876-0891
B ROHR EMP 13 ENG 4 \$500-\$1,000K

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D O'BRIEN EMP 1650 ENG 10
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TWX 710-461-0192..... 203-238-2351
B COMPO EMP 779 ENG 90 OVER \$10,000K

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W SUTTON EMP 52 ENG 8 \$5,000-\$10,000K

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K LANDGRAVER EMP 25 ENG 1 \$1,000-\$2,500K
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 TWX 642375..... 201-825-9500
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 MA 02134 TWX 951589..... 617-254-1200
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 NY B Fleckenstein Syracuse..... 315-488-7883
 OH Eljay Assoc Copley..... 216-666-3774
 PA BEAVCO Greentown..... 717-676-4895
 WI McNellis Reps Oconomowoc..... 414-567-9731
 FR Carbone Lorraine Corp Dorian PQ..... 514-373-7337

CARBORUNDUM ABRASIVES CO
 6600 WALMORE RD, BOX 350
 NIAGARA FALLS NY 14304..... 716-695-8120

CARCO ELECTRONICS 195 CONSTITUTION
 DR MENLO PARK CA 94025
 TWX 34-8482..... 415-321-8174
 B KUBIK EMP 65 ENG 24 \$5,000-\$10,000K

FL Russell Assoc Palm Beach Gdns..... 627-1503
 MD Russell Assoc Bel Air..... 838-9292
 MA Russell Assoc Lexington..... 863-1115
 NY Russell Assoc Bay Shore..... 666-6500

CARDION ELECTRONICS
 COMMUNICATIONS 895 WAVERLY AVE
 HOLTSVILLE NY 11742
 TWX 510-228-2653..... 516-289-6200
 D MCPHERSON EMP 750 ENG 200 OVER \$10,000K

CARDION ELECTRONICS DIV
 GEN SIGNAL CORP LONG
 ISLAND EXPWY WOODBURY
 NY 11797 TWX 221683..... 516-921-7300
 G GAUGHAN EMP 650 ENG 125 OVER \$10,000K

CARDWELL CONDENSER CORP
 80 E MONTAUK HWY LINDENHURST
 NY 11757..... 516-957-7200
 C MATTSON EMP 70 ENG 2 \$1,000-\$2,500K

CAREY ELECTRONIC ENGINEERING CO
 1880 CLIFTON AVE SPRINGFIELD
 OH 45505..... 513-323-6300
 R CAREY, JR EMP 20 ENG 3 \$250-\$500K
 NY Bailey Distributors 73 Sullivan St Brooklyn
 OH Related Components 1721 E Third Dayton

CARGOCAIRE ENGINEERING CORP
 79 MONROE ST AMESBURY
 MA 01913 TWX 94-7476..... 617-388-0600
 J BURGARD EMP 200 ENG 9 \$5,000-\$10,000K

CARLINGSWITCH INC 505 NEW
 PARK AVE W HARTFORD CT 06110
 TWX 710-425-0034..... 203-233-5551
 M SOLOMONSON EMP 1000 ENG 8

AZ CSR Elec Huntsville..... 205-533-2444
 AL Mercury Eng Sales Phoenix..... 602-244-0123
 AR S L Welch & Assoc Little Rock..... 501-455-2199
 CA S Johnson Encino..... 818-708-0478
 CA Wright Assoc San Rafael..... 415-457-9940
 CO Quorum 3 Denver..... 303-696-8480
 FL J-R Controls Tampa..... 813-961-9478
 GA CSR Elec Atlanta..... 404-396-3720
 IL Wm R Bolles Assoc Schiller Park..... 312-678-7888
 IN D-M Assoc Indpls..... 317-842-4424
 KS Mertens Co Mission..... 913-432-9323
 MD Navdian Assoc Gaithersburg..... 301-258-5040
 MA Berkshire Elec Hopkinton..... 617-435-9356
 MI R C Nordstrom & Co Southfield..... 313-559-7373
 MN Technical Components Mpls..... 612-566-0684
 MS S L Welch & Assoc Jackson..... 601-932-5534
 MO J Mertens Clayton..... 314-993-6600
 NJ VDE Elect Sales Burlington..... 609-387-9331
 NM F P Sales Albuquerque..... 505-345-5553
 NY Pacent Eng Great Neck..... 516-482-4678
 NY VDE Elect Rochester..... 716-473-5015
 NC Crossroads Electronics Raleigh..... 919-859-1033
 OH G Bryant Columbus..... 614-294-7103
 OR Electronic Comp Sales Tigard..... 503-245-2342
 PA Brown-Yates Elec Equip Carnegie..... 412-279-1101
 SC Crossroads Electronics W Columbia..... 803-359-0949
 TX Control Comp Corp Dallas..... 214-458-8877
 WA Electronic Comp Sales Mercer Island..... 206-232-9301
 WI Bolles & Assoc Mequon..... 414-241-3320

DISTRIBUTORS
 CA Electro Components Hayward..... 415-783-5800
 CA Pacific Switch Van Nuys..... 213-873-4802
 CA Electro Components Anaheim..... 714-666-0180
 CA Electric Switches LA..... 213-660-1310
 CT Atlantic Switch Hartford..... 203-527-7705
 FL Switch Controls Lakeland..... 813-664-7564
 IL Conextrix Carol Stream..... 312-653-1460
 MI Spemco St Clair Shores..... 313-771-2700
 MN Bergquist Mpls..... 612-835-2322
 NJ Jersey Switch Mt Laurel..... 609-778-8190
 NJ Relay Specialties Fair Lawn..... 201-797-3313
 NY Simcon Elec Corp Rochester..... 716-328-3230
 NY Switches Unltd Woodside..... 718-478-5000
 OH Ohio Switch Columbus..... 614-885-0319
 SC Dixie Elect Columbia..... 803-779-5332
 TX Texas Switch Dallas..... 214-357-1768

CARLTON INDUSTRIES INC
 22661 LAMBERT ST EL TORO
 CA 92630..... 714-770-7846
 G HENRY EMP 12 ENG 6 \$1,000-\$2,500K

CAROL CABLE CO INC ELECTN
 CABLES DIV 249 ROOSEVELT AVE
 PAWTUCKET RI 02862
 TWX 92-7750..... 401-724-9605
 N CRESCI EMP 3000 ENG 20 OVER \$10,000K

AL Cartwright & Bean Inc Huntsville..... 205-830-1540
 AZ J R Morgan Agency Phoenix..... 602-268-3464
 CA West Cal Sales Aptos..... 408-688-6568
 CA Berman-Gravley Co Costa Mesa..... 714-549-2122
 CO Wm J Purdy Co Denver..... 303-753-6800
 FL Hutto, Hawkins, Peregoy Maitland..... 305-831-2474
 GA Cartwright & Bean Atlanta..... 404-233-2939
 HI West Pacific Agency Honolulu..... 808-395-3152
 IL Industrial Reps Inc Skokie..... 312-967-8430
 IN Marketing Engrs Indianapolis..... 317-872-5665
 KS Lowell-Kangas & Assoc Shawnee Mission..... 913-631-3515
 LA Cartwright & Bean Covington..... 504-892-1780
 MD Lowery & Assoc Columbia..... 301-964-0225
 MA Rudolph Mktg Assoc Seekonk..... 617-399-6270
 MI Jack M Thorpe Co E Detroit..... 313-779-6363
 MN Electric Comp Sales Mpls..... 612-933-2594
 MS Cartwright & Bean Jackson..... 601-981-1170
 MO Lowell-Kangas & Assoc St Louis..... 314-821-4050
 NE Wm J Purdy Co Denver CO..... 303-753-6800
 NJ Willgold Sales E Orange..... 201-678-7700
 NY Apex Assoc Rochester..... 716-254-6050
 NY L-C-A-Sales Tuckahoe..... 914-961-4700
 NC Cartwright & Bean Raleigh..... 919-876-4130
 OH Marlow Assoc Cleveland..... 216-991-6500
 OR Wm J Purdy Co Beaverton..... 503-641-9373
 PA Lowery Assoc Broomall..... 215-356-5300
 TN Cartwright & Bean Memphis..... 901-276-4442
 TX J Y Schoonmaker Co Dallas..... 214-349-1650
 VA Lowery Assoc Charlottesville..... 804-973-6672
 WA Wm J Purdy Co Redmond..... 206-882-3144
 WI Industrial Reps Milwaukee..... 414-259-0966

CAROL CABLE CO WEST 2665
 E DEL AMO BLVD RANCHO
 DOMINGUEZ CA 90221 TWX 67-3262..... 213-537-8050
 R SNYDER EMP 300 ENG 7 OVER \$10,000K

CAROLINA MEDICAL ELECTRONICS INC
 BOX 307 KING NC 27021
 TWX 80-6442..... 919-983-5132
 C JONES EMP 55 ENG 6 \$2,500-\$5,000K

CAROLINA STEEL & WIRE CORP
 I-20 & S C 6 LEXINGTON
 SC 29072..... 803-359-5501
 R WILSON EMP 100 ENG 3 \$5,000-\$10,000K

CARPENTER MFG CO INC FAIRGROUNDS
 DR BOX 188 MANLIUS NY 13104..... 315-682-9176

CARPENTER TECHNOLOGY CORP
 101 W BERN ST, BOX 662
 READING PA 19603 TWX 83-6432..... 215-371-2000
 M WENRICH EMP 4800 ENG 21 OVER \$10,000K

CA Carpenter Tech Corp LA..... 587-9131
 CA Carpenter Tech Corp Belmont..... 593-8461
 CT Carpenter Tech Corp Hartford..... 233-7581
 GA Carpenter Tech Corp Atlanta..... 987-3000
 IL Carpenter Tech Corp Melrose Park..... 681-3500
 IN Carpenter Tech Corp Indpls..... 632-4351
 MA Carpenter Tech Corp Mansfield..... 339-5161
 MI Carpenter Tech Corp Troy..... 588-5300
 MN Carpenter Tech Corp Mpls..... 331-8440
 MO Carpenter Tech Corp St Louis..... 652-6700
 NJ Carpenter Tech Corp West Caldwell..... 227-5400
 NY Carpenter Tech Corp Rochester..... 475-9120
 NC Carpenter Tech Corp Charlotte..... 596-7555
 OH Carpenter Tech Corp Cleveland..... 267-6700
 PA Carpenter Tech Corp Ft Washington..... 248-2500
 TN Carpenter Tech Corp Memphis..... 332-8332
 TX Carpenter Tech Corp Dallas..... 352-1771
 WI Carpenter Tech Corp Milwaukee..... 353-4900
 FR Carpenter Tech Corp Redxale Ont..... 743-9150

CARROLL TOUCH BOX 1309
 ROUND ROCK TX 78680
 TWX 881906..... 512-244-3500
 P SHORT EMP 150

CARROTT COMPONENTS CORP
 750 W VENTURA BLVD CAMARILLO
 CA 93010..... 805-484-0540
 S FROST EMP 8 ENG 2 \$2,500-\$5,000K

AZ Jarko Assoc Phoenix..... 602-243-4387
 CA Caltron Components Mt View..... 415-964-3244
 CA Riley Assoc Huntington Bch..... 714-841-1411
 CT Sir Assoc Bloomfield..... 203-243-9343
 ID N R Schultz Co Boise..... 208-377-8686
 IL Brock & Cushman Inc Chicago..... 312-622-4110
 MD Carwithen Assoc Silver Spring..... 301-589-9040
 MA Sir Assoc Westford..... 617-692-2500
 MI C B Jensen & Assoc Troy..... 313-643-0506
 MO Rothkopf & Assoc St Louis..... 314-961-4485
 NJ K & R Engrg Flanders..... 201-584-5235
 NY Net Sales Co Fairport..... 716-467-4538
 OH Thompson Assoc Dayton..... 513-435-7733
 OK Advance Tech Sales Tulsa..... 918-664-0482
 OR N R Schultz Co Beaverton..... 503-643-1644
 SC Candor Co Myrtle Beach..... 803-448-8361
 TX Advance Tech Sales Dallas..... 214-340-1300
 WA N R Schultz Co Bellevue..... 206-454-0300
 WI Brock & Cushman Waterford..... 414-662-3154

DISTRIBUTORS
 CA Prime Electro Manhattan Bch..... 213-379-3642
 CA Ital Elect Sales Industry..... 818-968-8515

CARSON MFG CO INC 5453
N RURAL ST INDIANAPOLIS
IN 46220 317-257-3191
G LOCKWOOD EMP 75 ENG 4 \$1,000-\$2,500K

CARTER MFG CORP 237 SUGAR RD
BOLTON MA 01740 617-779-5501
W GRAUSTEIN EMP 30 ENG 2 \$500-\$1,000K

AZ Thor Enggr Phoenix 602-437-1463
CA Thorson Co Goleta 805-964-8751
CT Vanguard Elctns Corp Walcott 203-879-9310
FL Reynolds & Assoc Melbourne 405-259-7000
GA Reynolds & Assoc Acworth 404-451-9558
KS S W Wollard Co Parker 313-898-6552
MA Vanguard Elctns Corp Needham Hts 617-449-5578
MO Abrams & Assoc St Louis 314-569-0447
NY Indus Science Supply Corp
Bayside 718-224-3147
OH Markus Barnett Assoc Dayton 513-293-6778
PA J O Olsen Co Pittsburgh 412-279-2550

CARTER MOTOR CO 2763 W GEORGE ST
CHICAGO IL 60618 312-588-7700
R CARTER EMP 100 ENG 4

CA Gee Assoc Sherman Oaks 213-788-5961
CA J T McFarland Assoc San Jose 406-286-9333
CO Hubert Kaub & Co Englewood 303-761-5881
CT AID Eng Sales Co Hamden 203-434-1673
GA B-C Elctn Sales Smyrna 404-436-5169
IL A G Erickson Assoc Oak Brook 312-323-1367
KS McCrory Ind Sales Shawnee
Mission 913-341-5401
MD R Phillips Laurel 301-498-6090
MI Electrolines Livonia 313-591-2428
MN A J Warner Co Mpls. 612-729-7371
NE B Halgren Lincoln 402-484-8971
NY R W Mitscher Co Buffalo 716-633-7970
NY Cushing Electro Sales Floral
Park 516-775-7170
NC R W Mitscher Co Raleigh 919-848-0941
OH K F Nauzer Co Chagrin Falls 216-338-8450
PA Clisby & Assoc Philadelphia 215-425-7724
UT Brandon Co Salt Lake 801-487-2231
WA Northmar Inc Seattle 206-524-5170

DISTRIBUTORS

AZ Electrical Specialty Phoenix 602-275-5736
CA Electrical Specialty L.A. 213-724-9600
CA Electrical Specialty So San Fran 415-589-9611
IL Wayne Elec Chicago 312-267-5400
MA Electro Sales Somerville 617-666-0500
MO Comet Indus KC 816-245-9400
NY MacPherson Controls Westfield 201-233-4010
OH Westburgh Elec Jamestown 716-488-1172
OH Repco Solon 216-248-8903
PA Globe Elect Pittsburgh 412-781-2677
TN Power Drives Knoxville 615-546-5611
TX Wholesale Elec Sup Dallas 214-824-3001

CASEMAKERS DIV STEBCO INDUSTRIES

1020 W 40 ST CHICAGO
IL 60609 TWX 910-221-2470 312-254-1221
R ALLEN EMP 100 ENG 3
AZ Mercury Engrg Sales Phoenix 602-244-0123
CA Local Sales Inc Placentia 714-993-1800
CA MHR Sales Emeryville 415-654-0811
CO Todd & Fry Assoc Longmont 303-776-7331
FL Askland Elect Comps Hollywood 305-987-1074
GA H W Phillips Co Roswell 404-992-3070
IL Momak Sales Downers Grove 312-963-6400
MA Hathaway Elctns Lexington 617-861-7010
MI Michigan Romax Sales Warren 313-979-2450
MN R-J Inc Minneapolis 612-866-3661
NY Filmor Industries Carle Place 516-294-6120
NY R P Kennedy Co Rochester 716-271-6322
OH John O Olsen Co Cincinnati 513-922-8885
PA Monteiro Assoc Doylestown 215-345-5855
TX Merco Sales Co Dallas 214-931-5650
WA Edw B Schack Co Seattle 206-433-8099

CASPAR INTEGRATED SYSTEMS INC

541 S FRANKLIN ST FORT BRAGG
CA 95437 TWX 910-350-7832 707-964-4109
L VARNUM EMP 10 ENG 2
AL Vesco Huntsville 205-881-1494
AZ Industrial Products Corp Phoenix 602-954-7300
CA Gado Inst Sales Palo Alto 415-961-2222
FL Vesco Orlando 305-859-8173
GA Vesco Decatur 404-296-5236
LA Flexicon Inc Baton Rouge 504-766-9711
MD Multi-Measurements Bethesda 301-530-5901
MA JSR Assoc Peabody 617-532-0348
NM Industrial Prods Corp Albuquerque 505-256-3561
NY Seelbach & Schmidt Inc Buffalo 716-839-2300
NC JMS Southeast Statesville 704-873-1016
PA Multi-Measurements Warminster 215-675-3082
TX Allesco Houston 713-771-0115
VA Vesco Richmond 804-282-7288
WA Hickey Eng Sales Bellevue 206-454-0460

DISTRIBUTORS

CA Int'l Carlstad 714-438-3929
IL Cole-Parmar Chicago 312-647-7600
IL A Daigler & Co Chicago 312-644-9438
MO C & G Ind Supply Independence 816-254-7738
NY Transcat Rochester 716-458-4801

CASO-SOLAR CORP BOX 163

MT IVY US RT 202 POMONA
NY 10970 TWX 4754099 914-354-2500
N RATES EMP 45 ENG 9 \$2,500-\$5,000K
AZ Montgomery Bros Tempe 602-966-5864
CA Montgomery Bros Burlingame 415-697-6500
CA Montgomery Bros City of Commerce 213-721-6784
CO Montgomery Bros Denver 303-759-2745
IL Glenn Ind Prods Glenview 312-724-1018
MD Soc Assoc Silver Spring 301-439-3200
MA D Kuniholm Petersham 617-724-3433
MI Hartman Equip Co Grosse Pointe 313-886-1345
MN Applied Tec II Golden Valley 612-545-8286

NJ A P Tech Sales Palisades Pk 201-461-8875
NY J P Elliott Assoc 6789
Main St Buffalo 716-634-1550
OH Wagner-Sullivan Cleveland 216-464-8350
OR Montgomery Bros Portland 503-285-5000
SC Cotton-McCauley Co Greenville 803-244-1598
TN Jordan Marlar Hale Inc Memphis 901-452-7441
TX Selle Alloys & Equip Houston 713-524-3013
UT Montgomery Bros SLC 801-363-3555
WA Montgomery Bros Redmond 206-881-9393
FR Tempco Sys Ltd Toronto ON 416-787-0626

CASTALL INC WEYMOUTH IND PARK

E WEYMOUTH MA 02189
TWX 955-439 617-337-6075
J MCDONOUGH EMP 30 ENG 3 \$2,500-\$5,000K
AL BJR Mrs Huntsville 205-881-3569
AZ Southwest Eng Inc Mesa 602-941-2828
CA Power Component Sales Tarzana 818-881-9111
CA M Dildinger San Jose 408-978-9957
CO Electro Industrial Denver 303-623-5534
FL Bill Toy Assoc Indian Harbour
Bch 305-773-5805

IL Electro-Mech Sales Corp Chicago 312-777-0554
IN Engineered Adhesives Ft Wayne 219-456-3437
MN Norton & Assoc Mpls. 612-881-6226
NJ Cambridge-Allen Assoc Berkeley
Hts 201-464-0203
TX Delta Components Inc Austin 512-458-4288
WA J J Assoc Seattle 206-246-6619

CATALYST RESEARCH 1421

CLARKVIEW RD BALTIMORE
MD 21209-9987 301-296-7000
E HATCH EMP 420 ENG 40 OVER \$10,000K
CA M T S R & Co Mountain View 415-966-6446
FL R C Simon & Co Lighthouse Point 305-941-2757
IL T-Squared Assoc Palatine 312-991-2144
MD Via Annapolis 301-261-1716
MI W/H Assoc Lincoln 617-259-8103
MI W R Hummon & Assoc Farmington Hills 612-861-8051
MN Hei-Lite Sales Mpls. 212-291-3232
NJ S-J Assoc Jamaica 919-467-6319
NC Montgomery Mktg Inc Cary 216-241-4880
OH J C Holstetter Co Medina 216-241-4880
TX Kruvand Assoc Dallas

DISTRIBUTORS

MD Pytronics Savage 301-792-0780

CATON CONNECTOR CORP 20

WAPPING RD RT 106 KINGSTON
MA 02364 TWX 710-391-7546 617-585-4315
D GALAMBOSS EMP 25 ENG 4 \$1,000-\$2,500K
CA Interconnect Specialties
Van Nuys 213-988-7620
NJ J Onore Union 201-355-0474

CCI 7616 BURLINGTON ST OMAHA

NE 68127 402-592-5320

C-COR ELECTRONICS INC 60

DECIBEL RD STATE COLLEGE
PA 16801 TWX 510-670-3513 814-238-2461
J HASTINGS EMP 600 ENG 30 OVER \$10,000K
CA B Brammer Arleta 213-768-8811
CA E Harmon Anaheim 714-993-2620
GA M Crofts Kennesaw 404-928-6922
IL D Wadas Batavia 312-879-0567
NY J Ocko New York 212-460-5670
OR R Faulkner Beaverton 503-645-0345
PA C Kummer Philadelphia 215-934-5654
PA A Hastings State College 814-238-2461

CDEX-INTELLISANCE CORP

1885 LUNDY AVE SAN JOSE
CA 95131 408-263-0430
G NIEDERMAYER EMP 45 ENG 10 \$2,500-\$5,000K

CDMI-CONNECTOR DESIGN & MFG INC

5855 W CENTINELA AVE
LOS ANGELES CA 90045
TWX 65-3438 213-776-6614
S SIMONSON EMP 49 ENG 1 \$2,500-\$5,000K
AZ TC Elect Sales Scottsdale 602-994-5153
CA R-C Electronics Sunnyvale 408-988-0701
FL Southeastern First Rep Melbourne 305-259-6373
MA Tom Maguire Assoc Wellesley 617-431-1120
TX Delira Dallas 214-351-1031

DISTRIBUTORS

CA Connector Distribution Corp LA 213-670-2266

CEA BERKLEONICS AN EG & G CO

1 AEROVISTA PARK SAN
LUIZ OBISPO CA 93401
TWX 910-351-6705 805-544-5454
S MASTEN EMP 145 ENG 10 \$5,000-\$10,000K
CT George Urban Assoc Vernon 203-647-3991
IL Engineering Prods Assoc
Schaumburg 312-882-7640
IA Engineering Prods Assoc
Coraville 319-354-5344
MA Geo Urban Assoc Dover 617-329-4068
MN Engineering Prods Assoc Edina 612-835-9022
NY LRC Assoc Congers 914-268-4435
PA Robt Sapinosa Assoc Broomhall 215-353-7267
WA IEI Inc Linwood 206-775-3516

CEAG ELECTRIC CORP 1324

MOTOR PKWY HAUPPAUGE NY 11788
TWX 510-227-4904 516-582-4422
B WIEDEMAN EMP 160 ENG 30

CEFCO BOX 300 WEST NEW YORK

NJ 07093 TWX 136479 201-869-7777
J METROPOLIS EMP 250 ENG 4 OVER \$10,000K
FL SRT Marketing Tampa 813-884-4805
MS S L Welch & Assoc Jackson 601-932-5534
NJ Synergy Sales Edison 201-828-5090

CEI CORP 30 INDUSTRIAL
DR BOX 501 LONDONDERRY
NH 03053 800-DCPOWER
P IVERSON EMP 85 ENG 5 \$2,500-\$5,000K

CELCO (CONSTANTINE ENGINEERING

LABS CO) 70 CONSTANTINE DR
MAHWAH NJ 07430
TWX 710-988-1018 201-327-1123
P CHRISTALDI

CA CELCO Pacific Mfg & Sales

1150 E 8th St Upland 714-985-9868

CELERITY COMPUTING 9692

VIA EXCELENCIA SAN DIEGO
CA 92126 619-271-9919
T LYDON EMP 125 ENG 30

CELESCO TRANSDUCER PRODUCTS INC

BOX 1457 CANOGA PARK
CA 91304 TWX 499-8137 818-884-6860
J CALLAHAN EMP 80 ENG 10 \$2,500-\$5,000K

AK C Hillhouse Soldotna 907-262-7340
AZ Tremblay Assoc Tempe 602-967-2052
CA Gado Instr Sales Mt View 415-961-2222
CA Transducer Sys Westminster 714-898-1767
CO Innovative Products Denver 303-691-1375
FL PAR Assoc Indian Rocks Bch 813-596-8841
GA Par Assoc Atlanta 404-391-9117
IL I & C Sales Hinsdale 312-323-8205
MA Reptek Sharon 617-784-6700
MI I & C Sis Trenton 313-671-1320
MN CMI Corp Mpls 612-566-6930
MO Universal Precision Manchester 314-394-4693
NV Tremblay Assoc Las Vegas 702-739-9770
NJ C B Assoc Hillsdale 201-664-6230
NM Tremblay Assoc Albuq 505-266-8616
NY Trott Electronics Clarence 716-634-8500
OH I & C Sales Cincinnati 513-772-3011
OR Fry Controls Portland 503-226-2620
PA Test Equip Sales Cheltenham 215-379-5431
TX Advance Technical Sis Dallas 214-340-1300
UT Tremblay Assoc SLC 801-486-5292
WA Fry Controls Bellevue 206-282-9270
WV Bobar Inst New Kensington 412-339-3565

CELTIC INDUSTRIES INC 14654

KESWICK ST VAN NUYS CA 91405 818-787-3615
F ISAMAN EMP 10 ENG 2 \$100-\$250K
FL Cherith Sales Co Clearwater 813-797-3004
TX Lamco Arlington 817-268-1094

CELWAVE R F RTE 79 MARLBORO

NJ 07746 TWX 710-722-3861 201-462-1880
S ALDINGER EMP 250 ENG 20
AZ Celwave 115 E Watkins Phoenix 602-638-7666
FL Celwave Box 389 Leesburg 813-797-3004
IL Celwave 941 N Plum Grove Schaumburg 815-340-1300
NC Celwave Technologies Box 39 Claremont 412-339-3565

DISTRIBUTORS

IL Communication Assoc Joliet 800-435-9313
MD Tessco Cockeysville 800-638-7666
OH Cartwright Cincinnati 800-543-8614
TX National Tower Houston 800-325-8950

CENCORP SUB DOVER TECHNOLOGY INC

BOX 656 BOULDER CO 80306 303-665-4204
S GREENLEAF EMP 60 ENG 5 \$2,500-\$5,000K

CENTERLINE CIRCUITS 1820

INDUSTRIAL CIR LONGMONT
CO 80501 303-772-5344
J CLARK EMP 105 ENG 5 \$5,000-\$10,000K

CENTIGRAM CORP 1883 RINGWOOD AVE

SAN JOSE CA 95131 TWX 171-994 408-734-3222
J GILLESPIE EMP 60 ENG 15

CENTRALAB INC A NORTH AMERICAN

PHILIPS CO 5855 N GLEN PARK RD
MILWAUKEE WI 53209
TWX 910-262-3083 414-228-7380
F FUNK EMP 5000 ENG 100 OVER \$10,000K

AZ Dowling Technical Group Tempe 602-893-7555
CA Brooks Tech Group Mt View 415-960-3880
CA Clemick-Neenan & Assoc San Diego 619-268-8450
CO Centralab Englewood 303-779-9696
CT Centralab Meriden 203-235-0766
FL Centralab Ft Lauderdale 305-485-0115
GA Centralab Atlanta 404-451-1859
IL Centralab Des Plaines 312-827-4487
IN Les M DeVoe Co Indpls 317-842-3245
IA Lorenz Sales Cedar Rapids 319-377-4666
KS Lowell, Kangas & Assoc
Shawnee Mission 913-631-3515
MD Jerry Bresson Assoc Timonium 301-561-1066
MA Centralab Needham 617-444-4871
MI Centralab Lathrup Vlg 313-559-0995
MN Centralab Minneapolis 612-831-5212
MO Lowell, Kangas & Assoc St Louis 314-821-4050
NE Lorenz Sales Lincoln 402-475-4660
NJ Centralab Secaucus 201-867-7774
NY Empire Tech Assoc Binghamton 607-772-0651
NC Centralab Raleigh 919-787-9462
OH Centralab Worthington 614-888-2150
OR Centralab Beaverton 503-643-5516
PA Bresson Assoc Inc Narbeth 215-664-6460
TX Centralab Farmers Branch 214-243-8791
VA Bresson Assoc Lynchburg 804-237-1304
WA Centralab Bellevue 206-643-4555
FR McHugh Elect Pickering ON 416-831-4770
FR Arwin Tech Sales Ltd No
Vancouver BC 604-980-4557
FR M Anderson Co Hato Rey PR 809-751-2026

CENTRALAB INC A NORTH AMERICAN
 PHILIPS CO 4561 COLORADO BLVD.
 LOS ANGELES CA 90039
 TWX 910-497-2282 818-240-4880
 G OLLEN
 For Sales Offices See Centralab Inc Milwaukee WI.

CENTRALAB INC A NORTH AMERICAN
 PHILIPS CO 2566 NORTHWESTERN
 AVE WEST LAFAYETTE IN 47906
 TWX 810-342-1889 317-463-2536
 M NEUGUS
 For Sales Offices See Centralab Inc Milwaukee
 WI Listings.

CENTRALAB INC A NORTH AMERICAN
 PHILIPS CO 7158 MERCHANT AVE
 EL PASO TX 79915
 TWX 910-964-1311 915-779-3961
 R MICHAELS
 For Sales Offices See Centralab Inc Milwaukee WI.

CENTRALAB INC A NORTH AMERICAN
 PHILIPS CO HWY 20 W, BOX 858
 FORT DODGE IA 50501
 TWX 910-520-2493 515-573-1300
 D HEPERLE
 For Sales Offices See Centralab Inc Milwaukee WI.

CENTRAL DATA CORP 1602 NEWTON DR
 CHAMPAIGN IL 61821
 TWX 910-245-0787 217-359-8010
 J HOFFMAN EMP 70 ENG 10 \$5,000-\$10,000K
 AZ Synergetic Reps Huntsville 205-882-1691
 AL Trembley Assoc Tempe 602-967-2058
 CA Manco Santa Clara 408-496-6611
 CA Caltech Pro Riverside 714-682-8506
 CO Trembley Assoc Littleton 303-794-1779
 CT TA2 Stamford 203-327-2934
 FL Synergetic Reps Largo 813-586-2871
 GA Synergetic Reps Atlanta 404-446-6224
 IL First Rep Co Elmhurst 312-530-2450
 KS Kebab Wichita 316-733-1301
 MN TA2 Framingham 617-815-3586
 MN The Mark Co Mpls 612-933-3026
 MO Kebab Maryland Hts. 314-576-4111
 NV Trembley Assoc Las Vegas 702-739-9770
 NY Trembley Assoc Albuquerque 505-985-0370
 NY Gebhardt Mktg Springfield NJ 201-376-4415
 NC Synergetic Reps Raleigh 919-878-1705
 OH Applied Data Mgmt Cincinnati 513-579-8018
 OR Tasco Portland 503-245-8618
 PA QED Willow Grove 215-652-5800
 UT Trembley Assoc SLC 801-486-5292
 VA Scott Data Corp Alexandria 703-765-7901
 WA Tasco Bellevue 206-453-1414

CENTRE ENGINEERING INC
 2820 E COLLEGE AVE STATE
 COLLEGE PA 16801
 TWX 510-670-3517 814-237-0321
 R GUSEWITE EMP 250 ENG 20 OVER \$10,000K

AL Hughes Assoc Huntsville 205-533-9108
 AZ Sun-West Mktg Tempe 602-838-7586
 CA J J Riley Assoc Huntington Beach 714-841-1411
 CA Electronics Mktg Svcs Campbell 408-379-0800
 FL Hutto-Hawkins-Peregrine Maitland 305-831-2474
 GA Hughes Assoc Norcross 404-662-1587
 IL W-G Controls Lisle 312-963-5954
 IN Ellet Sales Huntington 219-356-1866
 KS Barnes Midwest Sales Overland Pk. 913-341-9317
 MD Tri-Mark Inc Glen Burnie 301-761-6000
 MA CompTech Inc Tyngsboro 617-649-3030
 MI Source Elect Taylor 313-295-7790
 MN Barnes Assoc Chanhassen 612-474-2907
 NY Mills-Brown Assoc Haddonfield 609-429-1005
 NJ Watmet Lewiston 716-285-3595
 NY JL Sales Assoc Commack 516-462-5666
 NC Hughes Assoc Cary 919-467-7029
 OH Intech Inc Akron 216-239-2202
 OR Components West Tigard 503-684-1671
 TX AID Elctns Irving 214-259-4761
 WA Components West Redmond 206-885-5880
 FR Water Metals Prods Ltd 416-356-4925
 FR Distributronics Inc Ponce PR 809-843-3321

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 AZ Lion Elect Dist Phoenix 602-869-9611
 CA Arco Elect Chatsworth 213-882-8707
 CA Centrex Elctns Campbell 408-379-0800
 CA Prime Electro Sales Manhattan
 Bch 213-379-3642
 FL Nurmi Elect West Palm Bch 305-686-8553
 MD Resco Wash Beltsville 301-937-9100
 MA TLC Elect Burlington 617-273-0140
 MN G & F Dist Chanhassen 612-934-8225
 NJ Resco Electronics Pennsauken 609-662-4000
 NM International Electronics
 Albuquerque 505-345-8127
 NC Resco Raleigh Raleigh 919-781-5700
 OH Argent Ind Englewood 513-836-8633
 OH REH Elect Solon 216-248-1636
 PA Aldertronic Pittsburgh 412-821-5565
 PA Electronic Comps for Ind York 717-843-8971
 TX International Electronics
 El Paso 915-598-3406

CENTROID INC 3 AERIAL WAY
 SYOSSET NY 11791 516-822-4770
 G STARR EMP 45 ENG 5 \$2,500-\$5,000K

CENTRONIC INC 1101 BRISTOL RD
 MOUNTAINSIDE NJ 07092 201-233-7200
 J MCVEA EMP 25 ENG 2

CENTRONICS DATA COMPUTER CORP
 1 WALL ST HUDSON NH 03051 603-883-0111
 S DARLING EMP 1500 OVER \$10,000K

CENTURY ANALYSIS INC 114
 CENTER AVE PACHECO CA 94553
 TWX 910-481-3011 415-680-7800
 EMP 50

CENTURY ELECTRIC INC 1831
 CHESTNUT ST ST LOUIS MO 63166 314-342-2500
 T PERFETTO EMP 1500 ENG 150 OVER \$10,000K
 CA D Hanna Carritos 213-404-2733
 NJ K Bauer Elmwood Pk. 201-797-5900
 OH L Nelson Columbus 614-878-0777
 TN K Boyd LaVergne 615-793-6781
 TX R Shilling Dallas 214-484-5811

CERAC INC BOX 1178 MILWAUKEE
 WI 53201 TWX 269452 414-289-9800
 K BROWN EMP 55 ENG 3 \$2,500-\$5,000K
 MA Fred Lesser Box 241 Bedford

CERAMASEAL DIV CLEVELAK CORP
 BOX 225 NEW LEBANON CENTER
 NY 12126 TWX 14-5442 518-794-7800
 G SAWIN EMP 75 ENG 9
 ADV PGS 81,122

AL Physimetrix Inc Huntsville 205-881-8483
 AZ Wadsworth/Bryant Phoenix 602-275-7366
 CA Wadsworth/Bryant Atherton 415-321-3619
 CA Wadsworth/Bryant Hacienda Hts. 818-330-5592
 CO J F Hurlbut Co Golden 303-279-7796
 FL Physimetrix Orlando 305-894-8081
 GA Physimetrix Atlanta 404-955-0155
 IL Automation Equip Co Mt Prospect 312-398-7550
 KS Midtec Assoc DeSoto 913-441-6565
 MD R A Wafer Assoc Baltimore 301-744-1133
 MA P J Engrg Sales Co Boston 617-783-0510
 MO Midtec Assoc Florissant 314-837-5200
 NY Canavan-Scanlon Assoc Syracuse 315-437-1271
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 PA Knowles Assoc Feasterville 215-322-7100
 PA Kurt J Lesker Co Pittsburgh 412-982-2996
 TN Physimetrix Inc Knoxville 415-966-7553
 TX Spectra Sales Richardson 214-234-3600
 WA J J Assoc Seattle 206-246-6919
 FR D T Shaw Co Ltd Montreal PQ 514-332-1163
 FR D T Shaw Co Ltd Toronto ON 416-231-2706
 FR Chas M Terry Pty Ltd Box 2391 GPO
 Sydney NSW

CERAMAWIRE BOX 1084 CRANFORD
 NJ 07016 201-276-1170
 C FORRESTER EMP 10 ENG 2 \$250-\$500K

CERAMIC MAGNETICS INC 87
 FAIRFIELD RD FAIRFIELD
 NJ 07006 TWX 138-730 201-227-4222
 G SCHALLER EMP 70 ENG 8

CA Testco Inc Saratoga 408-253-1900
 CA A C Allen Irvine 714-786-9428
 CO TMC Littleton 303-773-0643
 FL APM Assoc Tampa 813-886-2457
 IL J G Twist Co Elk Grove Vlg 312-593-0200
 IA C H Horn & Assoc Cedar Rapids 319-393-8703
 MD Atlantic Tech Sales Churchville 301-879-2236
 MA Selmark Assoc Mills 617-376-2914
 MI D Worden Warren 313-294-0890
 MN J G Twist Co Mpls 612-835-2120
 NY H C Johnson Agencies Rochester 716-586-0777
 NY E F Tech Sales Huntington Sta 516-549-1818
 TX Barker Assoc Raleigh 214-986-0568
 TX Etko/Tag Irving 206-246-6619
 WA J J Assoc Seattle 414-782-2670
 WI J G Twist Co Brookfield

CERAMIC SYSTEMS 3422 TRIPP CT
 SAN DIEGO CA 92121
 TWX 910-322-1402 619-455-1500
 M GREENFIELD EMP 35 ENG 3 \$1,000-\$2,500K

CERMETEK MICROELECTRONICS INC
 1308 BORREGAS AVE SUNNYVALE
 CA 94088 TWX 910-379-6931 408-752-6000
 J ARMSTRONG

AL K & E Assoc Huntsville 205-883-9720
 AZ Dar-C Inc Scottsdale 602-948-2240
 CA H-Tech Sales San Jose 408-279-2443
 CA Earle Assoc San Diego 619-278-5441
 CO D/Z Assoc Niwot 303-443-4388
 CO K & E Assoc Doraville 404-448-7025
 GA Omni Elctns Barrington 312-381-9087
 IN SAI Mkt Indpls 317-241-9276
 IA Beams Co Des Moines 515-255-1148
 KS Beams Co Shawnee Mission 913-631-0300

MD Phoenix Electronics Phoenix 301-628-2066
 MA Dynasel Assoc Waltham 617-890-6777
 MI R L Rowe & Assoc Ann Arbor 313-995-8711
 MN High Tech Sales Eden Prairie 612-944-7274
 MO Beams Co St Louis 314-434-8448
 NM Syntech Albuquerque 505-266-7951
 NY Gen-Tech Ele Liverpool 315-451-3480
 NY M O S Assoc Great Neck 516-487-3966
 NC Crossroads Elec Raleigh 919-859-1033
 OK M-Reps Tulsa 918-665-3562
 OR E S Chase Co Beaverton 503-641-4111
 PA Koebeht Assoc Glenside 215-887-2310
 SC Crossroads Elec West Columbia 803-359-0949
 TX M-Reps Dallas 214-669-9706
 UT D/Z Assoc SLC 801-483-1025
 VA Phoenix Elec Centerville 703-631-2924
 WA E S Chase Co Kirkland 206-823-9535

CERPROBE CORP 125 S ROCKFORD DR
 TEMPE AZ 85281 TWX 150218 602-967-7885
 EMP 100 ENG 10

CA TLC Saratoga Ent Santa Clara 408-730-1428
 CA MICRO-E Chino 714-591-2845
 CO Arrowhead Sales Arvada 303-423-5556
 FL UM2 Mktg Melbourne 305-676-3105
 MA Micro Technology Corp Framingham 617-875-3975
 OR Demarest Assoc Aloha 503-642-4515
 PA Blason Enterprises Haverford 609-767-6733
 TX R S Marston Co Richardson 214-235-3577
 WA Demarest Assoc Seattle 206-523-3210

CETEC ANTENNAS DIV CETEC CORP
 6939 POWER INN RD BOX 28425
 SACRAMENTO CA 95828
 TWX 377321 916-383-1177
 E FITZGERALD EMP 40 ENG 4
 TX Broadcast Systems Austin 512-836-6014

CETEC GAUSS 9130 GLENOAKS BLVD.
 SUN VALLEY CA 91352
 TWX 194989 213-875-1900
 J WILLIAMS EMP 86 ENG 5

CETEC RAYMER 7315 FULTON AVE
 NORTH HOLLYWOOD CA 91605
 TWX 510-600-3062 213-875-0423
 J HURST EMP 55 ENG 2 OVER \$10,000K

AZ Steve Fisher Assoc Phoenix 602-247-7865
 CA Roy Colon Sales Mill Valley 415-383-8700
 CA W C Allison No Hollywood 213-875-0423
 CO Norris & Warren Colo Springs 303-576-8697
 CT Smith Co Hartford 203-523-0512
 FL World Wide Elctns Pembroke Pines 305-966-6622
 GA Adams & Assoc Marietta 404-973-0853
 IL Mike Bernann Sales Skokie 312-675-3740
 IN Midstates Marketing Indpls 317-639-9999
 IA Nevo Inc West Des Moines 515-225-9866
 MI T A Elctn Sales Drayton Plains 313-674-3178
 MN Northland Assoc Moorhead 218-233-4616
 MO Nevo Inc KC 816-421-1751
 NY G E Miller Assoc Greenwich, CT 203-869-7793
 NC Adams & Assoc Greensboro 919-272-6838
 OH John O Olsen Co Cincinnati 513-574-7711
 OR McMillan Electronics Lk Oswego 503-636-6257
 PA Richard R Pass Assoc Langhorne 215-757-6100
 TN L Jones Memphis 901-683-7616
 TX Techno Assoc Dallas 214-357-9213
 VA Richard S Pass Assoc Alexandria 703-707-9888
 WA Northshore Mktg Seattle 206-284-9699
 FR Engineered Sound Sys Mississauga
 Ont 416-625-4042

CHADWICK HELMUTH CO INC
 4601 N ARDEN DR EL MONTE
 CA 91731 TWX 194-271 213-575-6161
 J BEACH EMP 78 ENG 6 \$5,000-\$10,000K

CHALCO ENGINEERING CORP
 15126 S BROADWAY GARDENA
 CA 90248 TWX 910-346-7026 213-321-0121
 J COX EMP 120 ENG 19 \$2,500-\$5,000K

CHAMPLAIN CABLE CORP BOX 7
 WINOOSKI VT 05404
 TWX 510-299-0018 802-655-2121
 J BUECHLER EMP 300 ENG 17

CA Champlain Cable Glendale 213-245-0101
 CO Todd & Fry Assoc Longmont 303-776-7331
 CT Lane Sales Co Cheshire 203-272-6081
 IL Champlain Cable Des Plaines 312-298-7994
 MA Herbert Sales Co Auburn 617-756-9477
 NJ Champlain Cable Summit 201-273-4338
 OH Champlain Cable Macedonia 216-467-1675
 TX Champlain Cable Irving 214-263-1842
 WA Champlain Cable Bellevue 206-453-8022

DISTRIBUTORS
 CA Electrical Specialty San
 Francisco 415-589-9611
 CT E J Stephens Co Manchester 203-646-7250
 GA Electrical Insul Sup Atlanta 404-355-1651
 IL Complete Reading Hillsdale 312-547-5400
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CA Domar Group San Jose 408-268-6804
FL Brawley Tech Sales Tampa 813-251-6816
GA Electrical Concepts Tucker 404-491-3154
IL J H S & Assoc Elgin 312-741-9070
MA Harman Assoc Brookline 617-232-6687
NY W W Winslip Assoc Canadaigua 716-396-2580
NC Hatley & Assoc Davidson 704-892-8326
OH Goodwin Entrps Reynoldsburg 614-866-0168
PA Webmatic Machy Co Downingtown 215-269-6511
PA Wendig Assoc Feasterville 215-357-4252
TX D & G Marketing Plano 214-867-5395
WA Process Systems Seattle 206-246-0224
WI R E Norene & Assoc Cedarburg 414-377-5440
FR Avotronics Ontario 416-475-2024

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PORTER RD PORTAGE IN 46368 219-763-1541
B HMEGARDNER EMP 4 \$500-\$1,000K
IL Chart Pool USA North Riverside 312-447-6124

CHASE ELECTRONICS 8585
SW CANYON LA PORTLAND
OR 97225 503-297-6356
C BROCKMAN ENG 1 UP TO \$100K

CHASE & SONS INC 19 HIGHLAND AVE
RANDOLPH MA 02368
TWX 710-348-1894 617-963-2600
P RANDO EMP 100 ENG 3 \$5,000-\$10,000K
TX Jos Permetti Houston 713-774-9420

CHASSIS TRAK DIV GENERAL
DEVICES CO INC 1410 S
POST RD BOX 39100 INDIANAPOLIS
IN 46239 TWX 27-2169 317-897-7000
J BRADFORD EMP 240 ENG 6
AL Hughes Assoc Huntsville 205-533-9108
AZ Snyder Engr Phoenix 602-279-2010
CA Gene Woemprer Co Mt View 415-964-5454
CA Groh Assoc Fullerton 714-738-7105
CO R F Mayo Assoc Boulder 303-499-2155
CT Coakley Boyd & Abbott North
Haven 203-481-2828

FL Jack Krutek & Assoc Deerfield 305-427-4202
IL H Benjamin Assoc Glencoe 312-835-0150
IN Century Elctns Noblesville 317-849-2026
KS Lowell, Kangas & Assoc
Shawnee Mission 913-631-3515
MA Coakley, Boyd & Abbott
Needham Hts 617-444-5470
MN Northport Engrg So St Paul 612-457-8000
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NY H G Richter Inc Mountaineire 201-233-4615
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NC Hughes Assoc Raleigh 919-782-2065
OH Electronic Components Miamisburg 513-866-3340
OK Advance Tech Sis Tulsa 918-664-0482
PA Monteiro Assoc Doylestown 215-345-5855
TX Advance Tech Sales Dallas 214-340-1300
WA Bergford Assoc Olympia 206-866-2001

CHATHAM CONTROLS CORP 33
RIVER RD CHATHAM NJ 07928 201-635-8892
R PERST EMP 10 ENG 1 \$100-\$250K
CA Components Corp Pasadena 681-7448

CHATILLON & SONS JOHN 83-30
KEW GARDENS RD KEW GARDENS
NY 11415 TWX 146 332 718-847-5000
R ECKLUND EMP 150 ENG 6 \$2,500-\$5,000K

CHATSWORTH DATA CORP 20710
LASSEN ST CHATSWORTH CA 91311 213-341-9200
H BOEHM EMP 75 ENG 7 \$2,500-\$5,000K

CHEMCUT CORP 500 SCIENCE PARK RD
STATE COLLEGE PA 16801
TWX 842555 814-238-0514
K LUTZ EMP 500

CA Chemcut Western Svc Ctr
1026 North Tustin Ave Anaheim 714-630-1700
CA L Long 1263 Nancarrow Way
San Jose 408-268-6207

IL Chemcut Central Svc Ctr
880 Greenleaf Elk Grove Vlg 312-593-2833

MA Chemcut Eastern Svc Ctr
167 C Southwest Cutoff
Worcester 617-798-0497

PA B Robinson Box 315 RD 4
Quakertown 215-723-5240
TX J Terrell 648 Williams
Way Richardson 214-690-1221
VA B Hirsch 2202 Winterthur
Ct Reston 703-476-0695

CHEMELEX DIV RBP CORP 150
S 118 ST MILWAUKEE WI 53214
TWX 910-262-3357 414-258-8711
EMP 90 \$2,500-\$5,000K

DISTRIBUTORS
CA Hercules Inc Cerritos 213-926-3312
DE Hercules Inc Wilmington 302-992-7000

CHEMICAL FABRICS CORP 701
DAN WEBSTER HWY, BOX 1137
MERRIMACK NH 03054
TWX 6817377 603-424-9000
G FABER EMP 400 ENG 25 OVER \$10,000K

CHEM-MIXX CORP 55 NORTH ST
MEDFORD MA 02155 617-395-7270
J HART EMP 10 ENG 2 \$250-\$500K

DISTRIBUTORS
CA A G Barstow Co South Gate 213-569-8125
GA Georgia Airtech Lilburn 404-925-3084
IN American Industrial Corp
Lawrence 317-897-9900
MN Adhesives Sys Technology Edina 612-944-7999
MO Thomas B Moore Co Maryland Hts 314-434-6844
PA Kurt J Lesker Co Pittsburgh 412-892-2996
PA Air-Draulics Phila 215-457-1940
TX Lomax Engineering Dallas 214-361-1134
TX Southwest Tech Sys El Paso 915-532-7079
FR Cammda Co Ltd Coburg ON 416-372-8900

CHEMTRONICS INC 681 OLD
WILLETS PATH HAUPPAUGE
NY 11788 TWX 968567 516-582-3322

CHERRY AEROSPACE FASTENERS
DIV TETRON INC 1224
E WARNER AVE BOX 2157
SANTA ANA CA 92707
TWX 910-595-1500 714-545-5511
B LAMBE EMP 850 ENG 45

CT E Norris Westport 203-227-8367
FL G Brown Casselberry 305-699-9558
GA D Eubanks Smyrna 404-435-3519
MO E Withrow Union 314-469-9538
NJ L Keimes Moorestown 609-235-0161
NJ J Sessa West Chester 617-779-9658
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WA C Kenyon Bellevue 206-454-6217
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TX 79906 915-779-7774
J LASPINA JR EMP 40 ENG 3

CHERRY ELECTRICAL PRODUCTS CORP
3600 SUNSET AVE WAUKEGAN
IL 60087 TWX 910-235-1572 312-662-9200
J COTTON EMP 1700 ENG 100 OVER \$10,000K

AL CSR Elec Inc Huntsville 205-533-2444
AZ O'Donnell Assoc SW Phoenix 602-944-9542
CA O'Donnell Assoc San Diego 619-578-1645
CA O'Donnell Assoc Torrance 213-539-9664
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IA Dy-Tronix Cedar Rapids 319-377-8275
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MI Cherry Elec Prod Corp Southfield 313-358-5588
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NY Schmitt Ind Mktg Corp W
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NC CSR Elec Inc Raleigh 919-878-9200
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PA Colrud Co Pitman NJ 609-589-5866
SC CSR Elec Inc Matthews 704-847-1927
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AZ Electronic Parts Phoenix 602-277-7281
AZ Cetec Electronics Phoenix 602-272-7951
AZ Fisher-Brownell Tempe 602-967-1464
AR Carlton Bates Little Rock 501-562-9100

CA Fisher-Brownell Alhambra 818-289-0255
CA Electric Switches LA 213-660-1310
CA Cetec Elec So Gate 213-773-6521
CA Fisher-Brownell San Diego 619-560-8545
CA Bell Elec Oakland 415-834-5888
CO Denver Wintronics Arvada 303-431-7161
CO Integrated Elec Denver 303-292-6121
CT Midan Elec Inc Wallingford 203-265-2077
FL Powell Elec Ft Lauderdale 305-972-4300
FL KSM Elec Ft Lauderdale 305-971-5900
GA ACK Radio Supply Atlanta 404-351-6340
GA KSM Electronics Atlanta 404-458-2013
IL OHM Elec Palatine 312-359-5500
IL Diplomat Bensenville 312-595-1000
IL Klaus Radio Champagne 217-356-1896
IL Newark Elec Chicago 312-784-4431
IL Hawk Elec Wheeling 312-459-4030
IN Genesis Elec Indpls 317-637-5571
IN Graham Elec Ft Wayne 219-423-3422
IA Advent Elec Cedar Rapids 319-363-0221
KS C Tennant Sons Edwardsville 613-441-1801
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NY QAR Ind Elec Sales Mt Vernon 914-699-2242
NY Aquas Elec Rochester 716-454-7800
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NY Peerless Radio Corp Lynbrook 516-593-2121
NC Kirkman Electronics Winston Salem 919-722-9131
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OH Electronics Middlesburgh Hts 216-243-7090
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OK Radio Inc Tulsa 918-587-9123
OR Tek-Electric Control Portland 503-246-5451
PA Pytttronic Ind Montgomeryville 215-643-2850
TN Graham Elec Nashville 615-242-2682
TX Sherman Elctns Sply San Antonio 512-224-1004
TX So West Elctns Stafford 713-240-4000
TX Force Elec Houston 713-561-8644
TX Wallace Elec Dallas 214-340-0400
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UT Diplomat Elec SLC 801-486-4134
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WI Marsh Elec Milwaukee 414-475-6000
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TWX 6817157 401-885-3600
B WILEY EMP 325 ENG 40 OVER \$10,000K

AL El Tech Inc Decatur 205-353-7899
CA Abbott Engrg Co Redwood City 415-369-1944
CA Mill-Com Sales Huntington Bch 714-840-2424
CO Front Range Marketing Boulder 303-443-4780
CT Technical Mktg Svcs Southbury 203-264-5319
FL CBC Electronics Coral Springs 305-755-1111
IL M & S-Sales Co Palatine 312-934-1200
IA Lorenz Sales Cedar Rapids 319-377-4666
KS Lorenz Sales Overland Pk 913-649-5556
KY El Tech Inc Fort Wright 606-331-3495
MD Eastern Comp Sales Timonium 301-561-5811
MA Technical Mktg Services Westboro 617-366-8462
MA Caddick Sales Lake Orion 313-391-4320
MN Ailyn Assoc Mound 612-472-4788
MO Lorenz Sales Bridgeton 314-298-8585
NH Technical Mktg Services Windham 603-434-4933
NY Kahgan Sales Corp Hempstead 516-538-2300
NY Elcom Sales Inc Rochester 716-385-1400
NC El Tech East Kernersville 919-996-4484
OR Quest Mktg Beaverton 503-641-7377
PA Eastern Comp Sales W
Conshohocken 215-825-8610
TX Precision Tech Assoc Richardson 214-234-8071
WA Quest Mktg Bellevue 206-747-9424

CHESSSEL CORP 107 PENNS TRAIL
NEWTOWN PA 18940 TWX 83-1701 215-968-0660
D NEAL
CO Loritz Controls Inc Lakewood 303-232-4996
GA Cascade Controls Roswell 404-998-1027
IL Patrick & Douglas Chicago 312-971-1800
IN Domino Uniftd Fort Wayne 219-747-5621
LA Rise Inc Baton Rouge 504-766-4645
MA Technical Enterprises Waltham 617-890-5300
MI Anderson Electronics Detroit 313-553-7600
MN Mark Co Minneapolis 612-920-6280
MO Adelphi Inc St Louis 314-821-1232
NY MIT Sales Co White Plains 914-946-5077
NC Aigay Controls Charlotte 704-366-6976
OH P J Navin Co Dayton 513-434-8940
OK Dave Alert Co Tulsa 918-743-7705
PA Data Acquisition Sys Murrysville 412-327-8979
TN Geo C Peck Co Knoxville 615-966-2141
TX Chessell Corp Burleson 817-572-4392
UT Bee & Tee Controls Midvale 801-566-7722
VA Advance Controls Equip
Co Richmond 804-270-7182
WA Topp Engrg & Sales Corp Bellevue 206-747-5400

CHESTEC INC BOX 10362 SANTA ANA
CA 92711 714-730-9405
A CHESAVALVE EMP 7 ENG 2 \$100-\$250K

CHESTER CABLE CORP OAKLAND
AVE DRAWER D CHESTER NY 10918
TWX 510-249-4813 914-469-2141
W DUNGAN EMP 300 ENG 10 OVER \$10,000K

CO R F Mayo Assoc Boulder 303-499-2155
IL A Matthews Arlington Hts. 312-577-2935
KY G W Thelen Co Ft Mitchell 606-341-8181
MA M A Olson Inc Newton 617-244-4030
MI K Wyant Sherwood 517-741-3472
PA M Stocker Easton 215-253-5577

CHESTERFIELD PRODUCTS INC
37 MIDLAND AVE ELMWOOD PARK
NJ 07407 201-797-9655
M PERRY EMP 29 ENG 4

AZ WJM Sales Tucson 602-888-4847
CA J M Assoc Palo Alto 415-857-1260
CA Biztek Co Burbank 213-766-4890
CO Morbak Marketing Loveland 303-669-8900
FL Reynolds & Assoc Melbourne 305-259-7000
IN Schilling Assoc Kokomo 317-452-4057
KS Barnes-Midwest Sales Overland Pk 913-469-9688
MD Holden Engrs Sales Towson 301-823-3763
MA Bengal Assoc Randolph 617-961-4120
MN Barnes Sales Assoc Chanhassen 612-934-2907
NJ L & M Assoc Elmwood Park 201-797-0441
NY L & M Assoc New York 212-243-6155
PA L & M Assoc Andalusia 215-245-6658
TX Carl Tinch Sales Co Richardson 214-231-1322

CHET ENGINEERING CO 16772
SCHOENBORN ST SEPULVEDA
CA 91343 818-786-7226
C WANTINK EMP 20 ENG 2 \$500-\$1,000K

CHICAGO LASER SYSTEMS INC
4034 N NASHVILLE AVE CHICAGO
IL 60634 TWX 671-1269 312-282-2710
B ALPINDER EMP 90 OVER \$10,000K

CHICAGO LOCK CO 4311 W
BELMONT AVE CHICAGO IL 60641
TWX 4994023 312-282-7177
D PADJEN EMP 400 ENG 4

CHICAGO MAGNET WIRE CORP
901 CHASE AVE ELK GROVE
VILLAGE IL 60007 312-397-7337
M DORE EMP 350 ENG 6 OVER \$10,000K

CHICAGO MINIATURE LAMP
See General Instrument Lamp Division Listings

CHICAGO SWITCH INC SUB ILL
TOOL WKS 1714 N DAMEN AVE
CHICAGO IL 60647
TWX 910-221-5252 312-489-5500
A STEINER EMP 250 ENG 6 \$2,500-\$5,000K

AL Electro Mech Sales Huntsville 205-533-2100
AZ Knight Company Phoenix 602-994-1311
AR Electra Reps Ft Smith 501-452-4030
CA McKnight Co San Jose 408-942-0880
CA Knight Co Los Angeles 213-670-2833
CO High Plains Marketing Englewood 303-792-2020
CT Kitchen & Kutchin North Haven 203-239-0212
FL Semtronics Altamonte Spgs 305-831-8233
GA Electro Mech Sales Norcross 404-447-6478
IL Parcom Inc Elk Grove 312-228-6360
IA R F Welch Co Cedar Rapids 319-377-1575
KS BC Electronics Kansas City 913-342-1211
MD Micro Comp Baltimore 301-247-0400
MI Kitchen & Kutchin Burlington 617-229-2660
MI R P Urban & Assoc Grand Rapids 616-245-0511
MN Comstrand Minneapolis 612-788-9234
MO BC Electronics Bridgeton 314-291-1101
NJ Varrelman-Gorman Florham Park 201-822-9616
NY Fountain Young & Co Syracuse 315-437-7733
NC Electro Mech Sales Raleigh 919-851-8165
OH Rockford Controls Euclid 216-731-5250
OR Eclipse Mktg Group Beaverton 503-642-1661
PA Precision Marketing Oreland 215-233-9233
TX Electro Mech Sales Jonesboro 615-753-2964
TN Electra Reps Dallas 214-248-3852
WA Eclipse Mktg Group Redmond 206-885-6991
FR Weber Electronics Markham ON 416-475-8500

DISTRIBUTORS

AZ RM Electronics Huntsville 205-852-1550
AL Harper SID Tempe 602-967-1464
CA Powell Electronics San Jose 408-943-9020
CA Electric Switches Los Angeles 213-660-1310
CO Acacia Sales Lakewood 303-232-2882
CT L E Whelan Hartford 203-246-5694
FL Electronic Equipment Miami 305-871-3500
GA Whitehead Electronics Norcross 404-923-6667
IL Newark Electronics Chicago 312-784-5100
IN RM Electronics Indpls 317-291-7110
KS RSC Electronics Wichita 316-267-5213
MD Powell Electronics Columbia 301-621-4070
MA A W Mayer Billerica 617-229-2255
MI RM Electronics Grand Rapids 616-531-9300

MN Joel Co Hopkins 612-935-6202
NH TNT Electronics Hudson 603-880-8300
NJ TED/Powell Englewood 201-894-0800
NY Iris Electronics Farmingdale 516-420-8400
NY Summit Distributors Buffalo 716-884-3450
NC Kirkman Elect Winston-Salem 919-722-9131
OH Akron Electronics Akron 216-762-8818
OR Bell Industries Lake Oswego 503-241-4115
PA Powell Electronics Philadelphia 215-365-1900
TX Harper SID Richardson 214-235-3177
WA Bell Industries Bellevue 206-747-1515
FR Semad Electronics Markham ON 416-475-3922

CHLORIDE ELECTRO NETWORKS
366 MAPLE ST CALEDONIA
NY 14423 TWX 510-254-0422 716-538-4421
G GOODYEAR EMP 585 ENG 14 OVER \$10,000K

MA Bell Controls Nashua 603-882-6084
NH Bell Controls Nashua 603-882-6084
VT Bell Controls Nashua 603-882-6084

CHOMERICS INC 77 DRAGON CT
WOBURN MA 01888
TWX 710-393-0173 617-935-4850
S FRIEND EMP 650 ENG 14 OVER \$10,000K

AZ Chomerics 602-897-6625
CA Chomerics 213-518-6921
CA El Com Inc 213-404-2961
CO Chomerics 303-973-3799
FL Chomerics 813-596-2682
IL Chomerics 312-232-1995
MN Chomerics 612-228-7646
MO Chomerics 314-576-7077
NJ Chomerics 609-586-9058
PA Chomerics 215-399-0699
TX Chomerics 214-960-7236
WA Chomerics 408-248-1116
FR Pipe Thompson Ltd Ontario 416-236-2355
FR Chomerics PR 617-935-4850

CHOMERICS LAMINATES INC
16 FLAGSTONE DR HUDSON
NH 03051 TWX 710-228-0367 603-880-4807
M HENDRA EMP 60 ENG 9 \$2,500-\$5,000K

DISTRIBUTORS

CA El-Com Cerritos 213-404-2961
CA Electrical Specialty San Francisco 415-589-9611
CO RSI Englewood 303-799-0296
GA Electrical Insul Supp Atlanta 404-355-1651
IL Complete-Reading Hillside 312-547-5400
MD Soso Baltimore 301-574-7555
MA Marketing East Middleton 617-777-1747
MN Industrial Gaskets Mpls. 612-941-2401
NJ McKeown Co Livingston 201-992-0700
NY Help Elect Johnson City 607-729-3528
OH Electrolock Chagrin Falls 216-543-6626
PA Tri-Com Essington 215-521-3080
TX Diplomat Elect Dallas 214-980-1888

CHORUS DATA SYSTEMS 6 CONTINENTAL
BLVD MERRIMACK NH 03054 603-424-2900
B MONK EMP 50 ENG 20 \$5,000-\$10,000K

CHR INDUSTRIES INC 407 EAST ST
NEW HAVEN CT 06509
TWX 710-465-0264 203-777-3631
J SPADORY EMP 125 ENG 2 OVER \$10,000K

DISTRIBUTORS

CT CHR 800-243-8160
CHRISLIN INDUSTRIES INC
31352 VIA COLINAS WESTLAKE
VILLAGE CA 91361
TWX 910-494-1253 818-991-2254
E ROSS EMP 52 ENG 7 \$5,000-\$10,000K
FR Chrislin Ind Caribe Box FF Canovanas PR

CHRISTIE ELECTRIC CORP
20665 MANHATTAN PL TORRANCE
CA 90501 TWX 910-349-6260 213-320-0808
A AUGUSTA EMP 200 ENG 13 \$5,000-\$10,000K

CA John Franek Co Irvine 714-261-5377
CA Sourcecronics Santa Clara 408-988-8801
CO Omega Ltd Englewood 303-762-1921
FL Newco & Assoc Orlando 305-422-7700
GA Newco & Assoc Lithia Springs 404-941-6077
MD CSDS Laurel 301-490-3800
MA Shain Assoc Needham 617-449-4380
NJ Hansen & Hughes Franklin Lakes 201-848-8900
NC Newco Inc Charlotte 704-527-7070
SC Newco & Assoc Florence 803-669-2988
TX Carl Tinch Sales Co Richardson 214-231-1322
WA CC & B Enterprises Federal Way 206-839-8886

DISTRIBUTORS

CA Aero Quality Sales Burbank 818-841-6163
CO Combs Gates Denver 303-398-5400
FL Aero Quality Sales Miami 305-592-5055
FL Combs Gates Ft Lauderdale 305-523-0550
GA Aviation Supply Corp Atlanta 404-765-1850
IN Combs Gates Indianapolis 317-243-8311

MD Aviation Supply Corp
Gaithersburg 301-258-0650
MI Aero Quality Sales St Clair Shores 313-772-7810
NJ Aero Quality Sales Lyndhurst 201-288-5510
NC Aviation Supply Corp Winston-Salem 919-767-5246
TX Aero Quality Sales Dallas 214-350-8881
TX Aero Quality Sales Houston 713-943-3906
VA Aviation Supply Corp Sandston 804-266-2110
VA Aviation Supply Corp Norfolk 804-857-3482
VA Aviation Supply Corp Roanoke 703-563-4401

CHROMALOX INSTRUMENTS & CONTROL
100 HEIL QUAKER BLVD LAVERGNE
TN 37086 TWX 55-5129 615-793-3900
J COX EMP 100 ENG 20 \$2,500-\$5,000K

AL Applebee-Church Birmingham 205-879-4417
AZ Chromalox Scottsdale 602-947-8073
AR Jack Greene & Co Little Rock 501-376-6626
CA Chromalox Whittier 213-945-8303
CA Chromalox Santa Clara 408-245-4121
CO E & M Sales Englewood 303-761-6202
CT Dittman & Greer Middletown 203-347-4655
FL J Galleher Co Clearwater 813-461-7706
GA Applebee-Church Chamblee 404-451-2747
IL Fred I Tourtelot Co Itasca 312-250-9300
IN Couchman-Chant Indpls 319-489-9890
IA Volco Co Davenport 504-326-5233
LA Ross & Pehtel Baton Rouge 504-293-0520
MD Faber-Renoff Glen Burnie 301-768-4554
MA Leo C Pelkus Inc Wellesley Hills 617-235-8040
MI Dave Ray & Assoc Royal Oak 313-280-0000
MN Volco Co St Louis Park 612-833-6631
MS Ross & Pehtel Jackson 601-922-8487
MO Carlton Co KC 816-363-5300
NE Volco Co Omaha 402-393-5141
NJ Faber Assoc Clifton 201-773-8900
NY Faber Assoc New York 212-947-4100
NY Niagara Elec Sales Rochester 716-271-1223
NC Carolina Tech Reps Matthews 704-847-4494
OH Anderson-Bolds Columbus 614-885-3933
OK Don Shuhar Co Tulsa 918-747-4136
OR Chromalox Portland 503-246-3366
PA Chromalox Paoli 215-647-7880
RI Dittman & Greer Providence 401-751-5508
SC Applebee-Church Columbia 803-772-3142
TN Applied Thermal Systems Chattanooga 615-899-9664
TX Chromalox Houston 713-847-1868
UT Vordos Assoc SLC 801-521-2111
VA Virginia Tech Assoc Richmond 804-266-9654
WA Chromalox Bellevue 206-885-0372
WI Gordon Hatch Co Milwaukee 414-671-6550

CHROMATICS INC 2558 MOUNTAIN
INDUS BLVD TUCKER GA 30084
TWX 810-766-8099 404-493-7000
G GREENWOOD

CA Chromatics Inc Marina Del Rey 213-822-4322
CA Chromatics Inc Santa Clara 408-980-0844
NJ Chromatics Inc Matawan 201-583-8900
TX Chromatics Inc Houston 713-266-0175
UT Caeco Salt Lake City 801-226-6509
VA Chromatics Inc Vienna 703-813-5851

CHRONO-LOG CORP 2 W PARK RD
HAVERSTOWN PA 19083 TWX 831579 215-853-1130
D BIBERMAN EMP 23 ENG 3 \$1,000-\$2,500K
FR York Instruments Don Mills ON 613-445-1255

CHU ASSOCIATES INC BOX 2387
LITTLETON MA 01460
TWX 710-347-0884 617-456-3282
C CREASER EMP 125 ENG 15 OVER \$10,000K
CA Chu Assoc West El Cajon 619-442-9459

JOHN CHUBB INSTRUMENTATION
30 LANDSWAN IND EST GLOUCESTER
RD CHELTENHAM GLOS GB 9L518PL 0242-573347
J CHUBB EMP 1 ENG 3

CHURCHILL CORP 344 FRANKLIN
ST BOX G MELROSE MA 02176 800-225-3932
W SCHERMERHORN EMP 30 ENG 1 \$500-\$1,000K

CINCINNATI ELECTROSYSTEMS INC
469 WARDS CORNER RD LOVELAND
OH 45140 513-831-4347
EMP 120

CINCINNATI MILACRON CO ELECTRONIC
CIRCUIT MATLS DIV BOX 246
BLANCHSTER OH 45107
TWX 214472 513-783-2464
E FERRARA

AZ Hunsick-Dolence Assoc Phoenix 602-998-9331
CA Local Sales Palmdale 714-993-1800
CT Jim Agugli Bloomfield 800-221-7084
FL Rainbow Sales Ft Myers 219-436-7233
IL Electro-Corp Sales Chicago 312-577-3788
IN John Kilfoil Co Ft Wayne 219-436-7273
MN John Grant Chicago 312-387-0650
OH John Kilfoil Co Cincinnati 513-791-6150
PA R Myers Devon 800-221-7084

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CINCINNATI SUB-ZERO PRODUCTS INC

12011 MOSTELLER RD CINCINNATI

OH 45241 TWX 214390 513-772-8810
G MLENAAR EMP 80 ENG 7 \$5,000-\$10,000
ADV PG 85

CA	Benedict Mktg Diamond Bar	714-861-9940
CA	Arrow Technical Sales Cedar Rapids	319-365-1908
MI	Schober & Assoc Orchard Lake	313-363-1888
MN	Arrow Technical Sales Mpls	612-545-4481
MO	Arrow Technical Sales St Louis	314-991-1399
NJ	Irv Rudnick Inc Teaneck	201-836-7392
NY	Davies Indus Services Buffalo	716-896-3600
NY	Davies Indus Services Syracuse	315-475-3261
OH	Boco Inc Dayton	513-224-0220
TX	Merit Co Euless	817-267-7022

CIPHER DATA PRODUCTS INC

10101 OLD GROVE RD, BOX 85170
SAN DIEGO CA 92138
TWX 910-335-1251 619-578-9100
F KIRCHHOFF EMP 1450 OVER \$10,000

CA	Cipher Data Prods Newport Bch	714-833-8751
CA	Cipher Data Prods San Jose	408-298-6252
FL	Cipher Data Prods Ft Lauderdale	305-772-2900
IL	Cipher Data Prods Itasca	312-250-0100
MA	Cipher Data Prods Wilmington	617-658-7941
NJ	Cipher Data Products Shrewsbury	201-741-2755
TX	Cipher Data Prods Dallas	214-458-1853

CIPHERLINK CORP 3807 WILSHIRE

BLVD LOS ANGELES CA 90010 213-387-5371
M GILLHAM EMP 20 ENG 5 \$250-\$500K

CIPRICO INC 2955 XENIUM LA

PLYMOUTH MN 55441 TWX 290-510 612-559-2034
S REILE EMP 79 ENG 15 \$5,000-\$10,000

AL	Interop Huntsville	205-533-1730
CA	Data Rep San Jose	408-279-1212
CO	Advanced Data Mktg Parker	303-841-4903
FL	Star Tec Melbourne	305-727-2247
IL	First Rep Elmhurst	312-530-2450
MD	L G White Silver Spring	301-434-1555
MA	Northeast Peripherals Norwood	617-769-9110
MI	Carter McCormick & Pierce Farmington Hills	313-477-7700
MN	J R Assoc Mpls	612-546-4110

CIRCUIT ASSEMBLY CORP 18

THOMAS ST IRVINE CA 92714
TWX 910-595-1971 714-855-7887
R FORINGER EMP 300 ENG 8 OVER \$10,000

AL	JHU Assoc Brownsboro	205-536-7455
AZ	TC Electronics Scottsdale	602-994-5153
CA	Baytech Sales Santa Clara	408-730-3009
CA	Varigon Assoc San Diego	619-576-0100
CO	Delltron Co Denver	303-373-0300
CT	Com-Sales Wallingford	203-269-7964
FL	Tech-Rep Assoc Clearwater	813-530-1619
GA	JHU Assoc Atlanta	404-662-0792
IL	LTD Technologies Itasca	312-773-2900
IN	Frank Kahsar Sales Indpls	317-888-8396
MA	Com-Sales Needham	617-444-8071
MI	Frank Kahsar Sales Grand Haven	616-846-7590
MN	Gaffney Sales Co Osseo	612-425-4484
MO	Harris-Hansen St Louis	314-432-3611
NH	Com Sale Exeter	603-772-3300
NJ	Masin Esco Englewood Cliffs	201-569-8868
NM	Syntech Albuquerque	505-266-7951
NY	Apex Assoc Rochester	716-254-6050
NY	Compro Sales White Plains	914-761-1042
OH	F Kahsar Sales Cincinnati	513-922-3133
OR	General Electronics Beaverton	503-641-5288
PA	Jacobson Assoc Hatboro	215-674-2937
SC	Ellenberg Tech Sales Greenville	803-233-9942
TX	Matthews & Assoc Dallas	214-248-7881
UT	Delltron Co SLC	800-692-2069
VA	Eltron Sales Ltd Front Royal	703-635-7201
WA	General Electronics Renton	206-228-9505
WI	LTD Technologies Milwaukee	414-774-1000
FR	Product Supply Co Irvine	714-250-0622

DISTRIBUTORS

AZ	Circuit Specialist Tempe	602-966-0764
AZ	Arizona Components Phoenix	602-279-9446
AZ	Tri-Tek Phoenix	602-995-9352
CA	Mann Elctns Santa Clara	408-988-6061
CA	Mann SW Irvine	714-380-4170
CA	Mouser Elect Santee	619-449-2222
CO	C S I D Denver	303-292-9594
CT	Midstates Elect Wallingford	203-265-9900
CT	Park Dist Bridgeport	203-366-7200
FL	Electronic Equip Miami	305-871-3500
FL	Intertec Longwood	305-834-7777
GA	Prehler Elect Atlanta	404-447-5540
ID	Al Elect Spirit Lake	208-623-3111
IL	Klaus Radio Champaign	217-356-1896
IL	Belford Elect Melrose Pk	312-865-2400
IL	Bel Indus Chicago	312-982-9210
IN	MAR Electronics Indpls	317-875-4510
IA	Brenneman & Assoc Marion	319-377-6394
MA	Gerber Elctns Norwood	617-329-2400
MA	In Stock Products Newton Upper Falls	617-964-6200
MI	Prehler Elect Farmington Hills	313-473-7200

MN	Cassidy Elect Eden Prairie	612-944-0100
MO	Gateway Electronics St Louis	314-427-6116
NH	Yankee Electronics Manchester	603-625-9746
NJ	Mid-Atlantic Bellmawr	609-931-5303
NJ	State Elect Hanover	201-887-2550
NJ	TED/Powell Englewood	201-894-0800
NM	Connecting Components Albuquerque	505-345-8921
NY	Car-Lac Indus Bohemia	516-567-4200
NY	QAR Mt Vernon	914-699-2224
NY	Modutec Rochester	716-647-9700
NY	Key Components Bohemia	516-567-7500
NY	Pride Elect Farmingdale	516-293-4020
NC	Southeastern Radio Sply Raleigh	919-828-2311
OH	Prehler Elect Middleburgh Hts	216-243-5510
OH	SRA Dayton	513-228-5255
OR	Rose Elect Lake Oswego	503-629-9288
PA	G W Elect Levittown	215-547-3521
TX	Elect El Paso	915-592-4126
TX	Prime Dist McKinney	214-231-0170
UT	Standard Supply SLC	801-486-3371
WI	Bell Indus Waukesha	414-784-0235

CIRCUIT BOARDS OF AMERICA INC

1700 N OPDYKE RD AUBURN HILLS
MI 48057 TWX 910-997-2652 313-858-5800

T AGAJEENIAN EMP 90 ENG 2 \$5,000-\$10,000

AL	R O Whitesell & Assoc Huntsville	205-883-5110
IN	R O Whitesell & Assoc Indpls	317-359-9283
IN	R O Whitesell & Assoc Fort Wayne	219-432-5591
IN	R O Whitesell & Assoc Kokomo	317-457-9127
KY	R O Whitesell & Assoc Louisville	502-426-7696
MI	Electronic Sources Brighton	313-227-3598
MI	R O Whitesell & Assoc Flint	313-695-0770
NC	R O Whitesell & Assoc Greensboro	919-273-1945
OH	R O Whitesell & Assoc Dayton	513-298-9546
OH	R O Whitesell & Assoc Cleveland	216-447-9020
OH	R O Whitesell & Assoc Columbus	614-888-9396
OH	R O Whitesell & Assoc Cincinnati	513-521-2290
PA	R O Whitesell & Assoc Pittsburgh	412-963-6161
TN	R O Whitesell & Assoc Knoxville	615-694-9476

CIRCUIT SERVICE OF NH INC

1995 MIDDLESEX ST LOWELL
MA 01851 617-452-1511
R ROSE EMP 40 ENG 3

CIRCUIT SERVICES-W R HATCH

2821 POMONA BLVD POMONA
CA 91768 TWX 298749 714-594-5891
R BARREDA EMP 13 ENG 1
CA Robar Industries Alta Loma 714-594-5891

DISTRIBUTORS

AZ	Intermtn Circuits Supply Scottsdale	602-948-6677
CA	W R Hatch Inc Fremont	415-490-1132
FL	Hoffner & Carnes W Palm Beach	305-433-4015
MA	Etch O Matic Waltham	617-893-2020
TX	Southwest Laminates Dallas	214-358-2797
WA	American Pacific Mktg Redmond	206-881-9775

CIRCUIT SOLVE LTD DENBIGH RD

MILTON KEYNES ENGLAND MK1 1YP
TWX 0908 826758 0908-648866
M MINNS EMP 11 ENG 1 \$500-\$1,000K

CIRCUITS PROCESSING APPARATUS INC

47003 MISSION FALLS CT
FREMONT CA 94539 415-490-8741
R CARR EMP 185 ENG 10 OVER \$10,000K

CIRCUIT TECHNOLOGY INC

160 SMITH ST FARMINGDALE
NY 11735 TWX 510-224-6555 516-293-8686
S TAYLOR EMP 520 ENG 40 OVER \$10,000K

CIRCUIT WORKS 1118 7 AVE

NEPTUNE NJ 07753 201-774-1811

CIRIS SYSTEMS CORP 1864 S STATE

SALT LAKE CITY UT 84115 801-466-6600
S DUNN EMP 17 ENG 3 \$1,000-\$2,500K

CITEL INC 3060 RAYMOND ST

SANTA CLARA CA 95050
TWX 910-338-0540 408-727-6562

C & K COMPONENTS INC 15

RIVERDALE AVE NEWTON
MA 02158-1082 TWX 710-335-1163 617-964-6400
P KINCAID EMP 525 ENG 35
ADV PGS 441,443,447,449,451,452,453,454,455

AL	Beacon Huntsville	205-881-5031
AZ	Sales Engrg Scottsdale	602-994-3230
AR	Beacon Little Rock	501-224-5449
CA	Universal Components LA	213-641-4255
CA	Ewing-Foley Inc Los Altos	415-941-4525
CT	Front Range Mktg Boulder	303-443-4780
CT	Barton Assoc Glastonbury	203-633-9417
FL	Beacon Ft Lauderdale	305-392-3500
GA	Beacon Atlanta	404-256-9640
IN	Control Sales Elk Grove Vlg	312-595-2110
KY	Technology Mktg Corp Carmel	317-844-8462
MA	Technology Mktg Corp Louisville	502-499-7808
MA	Gerber Sales Waltham	617-890-3334

MI	A P Assoc Brighton	313-229-6550
MN	Gibb Electronics Minnetonka	612-935-4600
MO	Dy-Tronix Inc Bridgeton	314-291-4777
NJ	Quality Components Co of N J Cherry Hill	609-428-6266
NJ	Astroprep Perth Amboy	201-826-8050
NM	Reptronix Ltd Albuquerque	505-292-1718
NY	Astroprep Corp Babylon	516-422-2500
NY	L-Tron Corp Latham	518-785-5032
NC	Beacon Electronics Raleigh	919-787-0330
OH	Thompson & Assoc Beachwood	216-831-6277
OR	LD Electronics Beaverton	503-649-6177
TX	R F Kimball Co Richardson	214-231-3447
UT	Front Range Marketing SLC	801-364-6481
WA	LD Electronics Snohomish	206-568-0511
WI	Control Sales Thiensville	414-242-4558
FR	Avotronics Ltd Markham ON	416-475-2021
FR	Avotronics Ltd Pointe Claire PQ	514-697-2131

DISTRIBUTORS

AL	Componet Dist Huntsville	205-883-7501
AL	Hall-Mark Elect Huntsville	205-837-8700
AL	RM Electronics Huntsville	205-852-1550
AL	Arrow Elect Huntsville	205-882-2730
AZ	Beswichted Phoenix	602-275-4800
AZ	Kierulff Elect Phoenix	602-437-0750
AZ	Fiesta Phoenix	602-861-1141
AZ	Hallmark Elect Phoenix	602-437-1200
AZ	Heiland Elect Phoenix	602-437-1060
AZ	Circuit Specialists Tempe	602-966-2378
AZ	Bell Industries Tempe	602-966-7800
AZ	Harper SID Tempe	602-967-1464
AZ	Pacer Elect Tempe	602-829-0330
AZ	Arrow Elect Tempe	602-968-8000
AR	Component Dist Little Rock	501-227-6278
CA	Bell Ind Gardena	213-515-1800
CA	Calif Switch & Signal Gardena	213-770-2330
CA	Harper SID Alhambra	213-289-0255
CA	Kierulff Elect Commerce	213-725-0325
CA	Kierulff Elect Palo Alto	415-968-9692
CA	Kierulff Elect San Diego	619-278-2112
CA	Bell Ind Sunnyvale	408-734-8570
CA	Kierulff Elect Tustin	714-731-5711
CA	Harper SID San Diego	619-560-8545
CA	Arrow Elect Chatsworth	213-701-7500
CA	Newark Elect Inglewood	213-678-0441
CA	Integrated Elect Sacramento	916-424-5297
CA	Arrow Elect San Diego	619-565-4800
CA	Master Distributors Santa Monica	213-452-1229
CA	Arrow Elect Sunnyvale	408-745-6600
CA	Pacific Switch Van Nuys	213-873-4802
CO	Integrated Elect Denver	303-292-6121
CO	Kierulff Elect Englewood	303-790-4440
CO	Denver Beta Wintronics Arvada	303-431-7161
CO	Arrow Elect Denver	303-758-4584
CO	Bell Ind Wheatridge	303-424-1985
CO	Arrow Elect Aurora	303-696-1111
CT	Utronics Stratford	203-378-4201
CT	Arrow Elect Wallingford	203-265-7741
CT	J V Elect East Haven	203-469-2321
CT	Midan Elect Wallingford	203-265-2077
CT	Park Dist Norwalk	203-853-2010
CT	Pioneer/Conn Norwalk	203-853-1515
CT	Heiland Elect Bethel	203-797-8600
CT	Pilgrim Elect Danbury	203-792-7274
CT	Atlantic Switch Controls Hartford	203-527-7705
CT	Cobra Components Norwalk	203-847-6442
CT	Kierulff Elect Wallingford	203-265-1115
CT	Sager Elect Sply Wallingford	203-265-6000
CT	Cronin Elect Wallingford	203-265-3134
FL	Orange Elect Sarasota	813-355-9688
FL	Summit Dist Dania	305-920-6253
FL	Component Dist Ft Lauderdale	305-971-4950
FL	Electronic Equipment Miami	305-871-3500
FL	Hallmark Orlando	305-855-4020
FL	Hammond Elect Ft Lauderdale	305-973-7103
FL	Kierulff Elect Ft Lauderdale	305-486-4004
FL	Dielco Ft Lauderdale	305-973-8700
FL	Kierulff Elect St Petersburg	813-576-1966
FL	Arrow Elect Ft Lauderdale	305-776-7790
FL	Summit Dist Dania	305-920-6253
FL	Hammond Elect Orlando	305-849-6060
FL	Switch Controls Lakeland	813-644-7561
GA	Electronic Precepts Clearwater	813-530-9781
GA	Arrow Elect Norcross	404-449-8252
GA	Hallmark Elect Norcross	404-447-8000
GA	Kierulff Elect Norcross	404-447-5252
GA	Component Distributors Norcross	404-441-3320
ID	A-I Elect Spirit Lake	208-623-3111
IL	LCOMP Chicago Addison	312-628-1400
IL	Electronic Dist Chicago	312-283-4800
IL	Kierulff Elect Elk Grove Vlg	312-640-0200
IL	Klaus Radio Peoria	309-691-4840
IL	Advent Elect Rosemont	312-297-6200
IL	Bell Ind Chicago	312-982-9210
IL	G B L (Gould) Elk Grove	312-593-3220
IL	Classic Components Northbrook	312-272-9650
IL	Newark Elect Chicago	312-638-4411
IL	Reptron Elect Arlington Hts	312-593-7070
IL	Electronic Dist Chicago	312-283-4800
IL	Arrow Elect Schaumburg	312-397-3440
IL	Conectrix Carol Stream	312-653-1460
IL	Lectro Components Addison	312-543-1680
IL	Hawk Elect Wheeling	312-459-4030



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IN	Graham Elect Indpls	317-634-8202
IN	RA-DIS-CO Indpls	317-637-5571
IN	Advent Elect Indpls	317-872-4910
IN	Graham Elect Ft Wayne	219-423-3422
IN	Graham Elect Lafayette	317-423-5564
IN	Radio Dist Co South Bend	219-287-2911
IN	Newark Elect Merrillville	219-738-2787
IN	Altex Carmel	317-848-1323
IN	Arrow Elect Indpls	317-243-9353
IN	RM Electronics Indpls	317-291-7110
IN	Genesis Elect South Bend	219-287-2911
IA	Deco Cedar Rapids	319-365-7551
IA	Klaus Radio Eldridge	319-285-8484
IA	Advent Elect Cedar Rapids	319-363-0221
IA	Arrow Elect Cedar Rapids	319-395-7230
KS	Hall-Mark Elect Lenexa	913-888-4747
KS	Tennant Edwardsville	913-441-1801
KS	LCOMP Inc Wichita	316-265-5100
KS	RSC Elect Wichita	316-267-5213
LA	M G Elect Harahan	504-733-0070
MD	Arrow Elect Baltimore	301-247-5200
MD	Hall-Mark Elect Columbia	301-988-9800
MD	Resco-Wash Beltsville	301-937-9100
MD	Treeco Sales Beltsville	301-937-9260
MD	Arrow Elect Columbia	800-842-7709
MD	M S Elect Rockville	301-340-6400
MD	Petrico Sales Beltsville	301-937-4960
MD	Resco Balt Baltimore	301-529-0500
MD	Kierulff Elect Linthicum	301-636-5800
MD	DK Electronics Columbia	301-995-1950
MD	Marine Air Supply Co Kensington	301-949-9560
MD	Zebra Elect Timonium	301-252-6576
MA	Kierulff Elect Billerica	617-667-8331
MA	Heiland Elect Wilmington	617-657-4870
MA	Gerber Elect Norwood	617-769-6000
MA	Arrow Elect Woburn	617-933-8130
MA	Aved Elect Andover	617-688-3800
MA	In-Stock Products Newton	617-964-6200
MA	R C Components Wilmington	617-273-1860
MA	Cronin Elect Needham	617-449-5000
MA	Pioneer/Mass Lexington	617-861-9200
MA	Sager Elect Supply Hingham	617-749-6700
MI	Advent Elect Farmington Hills	313-477-1650
MI	Reptron Elect Livonia	313-525-2700
MI	R M Electronics Grand Rapids	616-531-9300
MI	Arrow Elect Ann Arbor	313-971-8220
MI	Prehler Elect Farmington Hills	313-473-7200
MI	Michigan Elect Flint	313-232-6550
MI	NWR Elect Negaunee	906-228-9080
MN	Arrow Elect Edina	612-830-1835
MN	Kierulff Elect Edina	612-941-7500
MN	Ragon Elect St Paul	612-642-2852
MN	Hallmark Elect Bloomington	612-854-4169
MN	Industrial Components Mnpls	612-831-2666
MN	Newark Elect Mnpls	612-331-8350
MO	L-Comp KC	816-221-2400
MO	L-Comp Maryland Hts	314-291-6200
MO	Hallmark Elect Maryland Hgts	314-291-5350
MO	Olive Elect St Louis	314-426-4500
MO	Kierulff Elect Maryland Hgts	314-739-0855
MO	Arrow Elect St Louis	314-567-6888
NE	Scott Elect Lincoln	402-466-8221
NE	Leuck Radio Lincoln	402-476-2797
NH	Arrow Elect Manchester	603-668-6968
NH	Controller Service Manchester	603-623-7225
NH	Mid Atlantic Bellmawr	609-931-5303
NJ	Kierulff Elect Fairfield	201-575-6750
NJ	Arrow Elect Fairfield	201-575-5300
NJ	Arrow Elect Marlton	609-596-8000
NJ	Federated Purchasers Kenilworth	201-272-0505
NJ	Route Elect Springfield	201-379-7710
NJ	Marlac Moorestown	609-234-4200
NJ	Lionex Corp Fairfield	201-227-7960
NJ	Hallmark Elect Cherry Hill	609-424-7300
NJ	Pioneer/Harvey Pinebrook	201-575-3510
NJ	Jersey Switch Mt Laurel	609-778-8190
NJ	Pan American Bloomingdale	201-839-0077
NM	Electronic Devices Albuquerque	505-884-2950
NM	Arrow Elect Albuquerque	505-243-4566
NM	Bell Ind Albuquerque	505-292-2700
NM	Betatron Elect Albuquerque	505-344-2381
NY	E E Taylor Elec Albany	518-438-7811
NY	Pioneer/Bing Vestal	607-748-8211
NY	Car-Lac Elect Bohemia	516-567-4200
NY	Summit Dist Buffalo	716-887-2800
NY	Arrow Elect Melville	516-391-1502
NY	QAR Dist Mt Vernon	914-699-2224
NY	Simcona Elect Rochester	716-328-3230
NY	Summit Elect Rochester	716-334-8110
NY	LogiComp Mamaroneck	914-698-9332
NY	Cheif Elect Poughkeepsie	914-471-1300
NY	Villarreal Elect Millbrook	914-677-3447
NY	Rome Elect Rome	315-337-5400
NY	Lionex Corp Hauppauge	516-273-1660
NY	Summit Elect Rochester	716-334-8110
NY	Arrow Elect Hauppauge	516-231-1000
NY	Arrow Elect Liverpool	315-652-1200
NY	Peerless Radio Lynbrook	516-593-2121
NY	Arrow Elect Melville	516-391-1502
NY	Arrow Elect Rochester	716-427-0300
NY	Hallmark Elect Ronkonkoma	516-737-0600
NY	Pioneer Woodbury	516-921-8700
NC	Hammond Elect Greensboro	919-275-6391
NC	Hall-Mark Elect Raleigh	919-872-0712
NC	Kirkman Elect Winston-Salem	919-722-9131
NC	Arrow Elect Winston-Salem	919-725-8711

NC	Component Dist Raleigh	919-834-9465
NC	Arrow Electronics Raleigh	919-876-3132
NC	Kierulff Electronics Raleigh	919-872-8410
OH	Akron Elect Sup Akron	216-762-8818
OH	Graham Elect Columbus	614-895-1590
OH	Arrow Elect Solon	216-248-3990
OH	Reptron Worthington	614-436-6675
OH	Thompson Elect Columbus	614-228-6191
OH	Arrow Elect Centerville	513-435-5563
OH	Repro Solon	216-248-8900
OH	REM Elect Warren	216-373-1300
OH	Ohio Switch Columbus	614-885-0319
OH	Hallmark Elect Worthington	614-888-3313
OH	Hallmark Elect Highland Hgts	216-349-4632
OH	Newark Elect Youngstown	216-793-6134
OK	Electro Enterprises Okla City	405-427-6591
OK	Altair Tulsa	918-252-5781
OK	Hall-Mark Elect Tulsa	918-665-3200
OR	Kierulff Elect Portland	503-641-9150
OR	Moore Elect Lake Oswego	503-684-3130
OR	Radar Elect Portland	503-232-3404
OR	Bell Ind Lake Oswego	503-241-4115
PA	Reliance Merch Cornwells Hts	215-638-8200
PA	Advacom McKean	814-476-7774
PA	Cumberland Elect Harrisburg	717-232-5999
PA	Pytronics Ind Montgomeryville	215-643-2850
PA	Henwarr Warminster	215-675-4104
PA	Shap Elect Philadelphia	215-969-3300
PA	Barno Radio McKeesport	412-462-7574
PA	Arch Elect Phila	215-563-4660
PA	Rosen Elect York	717-843-7881
PA	ECI York	717-846-5334
PA	Beil & Whitaker Harrisburg	717-564-6900
PA	CAM/RPC Pittsburgh	412-782-3770
PA	Cumberland Elect Carlisle	717-243-8006
PA	Lionex Horsham	215-443-5150
PA	Cumberland Elect Lancaster	717-393-8304
PA	Peak Elect Wayne	215-293-9000
PA	Cumberland Elect York	717-848-8791
RI	Major Edwards Elect Pawtucket	401-727-1430
SC	Hammond Elect Greenville	803-233-4121
TN	Electra Dist Nashville	615-239-3971
TX	Hall-Mark Elect Dallas	214-343-5080
TX	Ideal Ind Elect El Paso	915-779-6647
TX	Altair Co Houston	713-462-3029
TX	Hall-Mark Elect Houston	713-781-6100
TX	Altair Richardson	214-231-5166
TX	Southwest Elect Stafford	713-491-4000
TX	Arrow Elect Carrollton	214-380-6464
TX	Harper SID Richardson	214-235-3177
TX	Southwest Elect Richardson	214-234-3050
TX	Southwest Elect Stafford	713-240-4000
TX	Altair Austin	512-837-4970
TX	Arrow Elect Austin	512-835-4180
TX	Kierulff Elect Austin	512-835-2090
TX	Hallmark Elect Dallas	214-343-5080
TX	Heiland Elect Dallas	214-351-2050
TX	Kierulff Elect Dallas	214-343-2400
TX	Texas Switch Dallas	214-357-1768
TX	Newark Elect Garland	214-494-5911
TX	Arrow Elect Houston	713-530-4700
TX	Kierulff Elect Houston	713-530-7030
UT	Kimball Elect SLC	801-328-2075
UT	Standard Supply SLC	801-486-3371
UT	RA-ELCO S L C	801-487-7749
UT	Bell Ind S L C	801-972-6969
VT	Arrow Elect Salt Lake City	802-539-1135
VT	Hooker Elect S Burlington	802-864-0885
VA	Sterling Elect Richmond	804-226-2190
VA	Mextronics Roanoke	703-342-4444
WA	Bell Ind Bellevue	206-747-1515
WA	Kierulff Elect Tukwila	206-575-4420
WA	Radar Elec Spokane	509-747-3053
WA	Radar Elec Seattle	206-282-2511
WA	Arrow Elect Bellevue	206-643-4800
WI	Taylor Elect Mequon	414-241-4321
WI	Arrow Elect Brookfield	414-792-0150
WI	Hall-Mark Elect New Berlin	414-797-7844
WI	Industrial Elect Milwaukee	414-776-1212
WI	Newark Elect Green Bay	414-294-1400
WI	Arrow Elect Brookfield	800-242-6061
WI	Newark Elect Madison	608-221-4738
WI	RM Electronics New Berlin	414-784-4420
WI	Classic Components New Berlin	414-786-5300
WI	Bell Industries Waukesha	414-547-8879
WI	Kierulff Elect Waukesha	414-784-8160
WY	Houge Radio & Sup Cheyenne	307-632-6474
FR	Parr Ind Elect Calgary AB	403-287-2840
FR	Bowtek Edmonton	403-426-1072
FR	Bowtek Vancouver BC	604-736-1141
FR	Intek Elect Vancouver BC	604-324-6831
FR	Vanguard Elect Winnipeg MB	204-786-1471
FR	Wes Ltd Winnipeg MB	204-632-1260
FR	Saynor Elect Ltd Don Mills ON	416-445-0723
FR	C M Peterson Co London ON	519-434-3204
FR	Electronic Whslrs Ottawa ON	613-746-4413
FR	Carsten Elect Scarboro ON	416-751-5095
FR	Electronic Whslrs Montreal PQ	514-769-8861
FR	Prelo Mississauga ON	416-678-0401
FR	Prelo Montreal PQ	514-389-8051
FR	Zenitronics Brampton ON	416-451-9600
FR	Zenitronics Waterloo ON	519-884-5700
FR	Zenitronics Ottawa ON	613-238-6411
FR	Zenitronics Calgary AB	403-272-1021
FR	Future Elect Calgary AB	403-259-6408
FR	Zenitronics Nepean ON	613-226-8840
FR	Prelo Elect Ottawa ON	613-226-3491

FR	Future Elect Ottawa, ON	613-820-8313
FR	Carsten Elect Ottawa, ON	613-729-5138
FR	Future Elect Pointe Claire, PQ	514-694-7710
FR	Zenitronics Richmond, BC	604-273-5575
FR	Zenitronics St Laurent	514-735-5361
FR	Carsten Elect St Laurent	514-334-8321
FR	Future Elect Vancouver, BC	604-438-5545
FR	Zenitronics Winnipeg, MB	204-775-8661

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CLAIREX CORP 560 S THIRD AVE
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TXW 13-7308
G FARRALL EMP 220 ENG 14 \$5,000-\$10,000
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AL	K & E Assoc Huntsville	205-883-9720
CA	Clairex Elctns Escondido	619-749-8474
CA	Maxim Elctns Milpitas	408-946-6001
FL	Bolton Assoc Pompano Beach	305-781-8887
GA	K & E Assoc Doraville	404-448-7025
MA	Clairex Elctns Bolton	617-779-2780
MI	Hilltronics Inc Ferndale	313-398-5556
MN	HMR Inc Mnpls	612-888-2122
NC	Crossroads Elect Assoc Raleigh	919-362-4099
PA	QRH Inc Havertown	215-449-3400
TX	JRM B Guenther Inc Dallas	214-691-8500
WA	H Levinson Co Seattle	206-382-1300
FR	Sylvan Ginsburg Ltd Oradell NJ	201-261-3200

DISTRIBUTORS

CA	E V Roberts & Assoc Culver City	213-870-9561
CA	Control Design Supply Buena Park	714-521-5040
CT	Sager Elect Wallington	203-265-4600
FL	Electronic Equip Co Miami	305-871-3500
FL	Electronic Equip Co Winter Pk	305-644-4833
FL	Nurmi Elect Sply W Palm	305-686-8553
IL	Bell Ind Chicago	312-982-9210
IN	Graham Elect Sply indpls	317-634-8202
MD	ALL American Transistor	
	Rockville	301-251-1205
MA	Bordewick Sales Co Norwell	617-659-4915
MA	Sager Elect Hingham	617-749-6700
MI	Wedemeyer Elect Supply Ann Arbor	313-665-8611
MI	R S Elect Livonia	313-525-1155
MN	Stark Elctns Mnpls	612-332-1325
MO	Van Sickle Radio Elect St Louis	314-621-5000
NJ	D F Assoc Mt Laurel	609-234-5324
NY	Summit Dist Buffalo	716-884-3450
OH	Hughes-Peters Columbus	614-294-5351
OK	Altair Tulsa	918-252-3787
TX	Altair Co Richardson	214-231-5166
WA	Radar Elec Co Seattle	206-282-2511
FR	Electro Sonic Willowdale ON	416-494-1666

CLARE DIV GENERAL INSTRUMENT CORP
3101 PRATT BLVD CHICAGO
IL 60645 TWX 25-3775
V AMES EMP 2500 ENG 100
ADV PGS 397,432

AL	Clare Div Huntsville	205-883-9130
AZ	Summit Sales Scottsdale	602-998-4850
CA	Ruppert Sales & Engrg San Jose	408-998-8717
CA	Integrated Systems & Device	
	Sales Woodland Hills	818-883-7130
CA	Clare Division Torrance	213-618-2065
CO	Western Region Mktg Westminster	303-430-8893
CT	Kanan Assoc Brookfield	203-775-0494
FL	Sales Engrg Concepts Deerfield	305-421-2398
FL	Sales Engrg Concepts Casselberry	305-834-6225
GA	Electramark Assoc Lawrenceville	404-963-4793
IL	Sumer Inc Rolling Meadows	312-991-8500
IL	Clare Div Arlington Hts	312-981-0630
IN	Schank Electronic Mktg Indpls	317-842-6204
IA	Lorenz Sales Inc Cedar Rapids	319-377-4666
KS	Lorenz Sales Inc Overland Park	913-649-5556
MD	Beacon North Inc Randallstown	703-591-1300
MA	Kanan Assoc Needham Heights	617-449-7400
MN	Alldridge Assoc Eden Prairie	612-944-8433
MO	Lorenz Sales Inc Bridgeton	913-649-5556
NJ	Janco Technology Inc Palisades	
	Park	201-941-4008
NY	Quality Components Manlius	315-682-8885
NY	Quality Components Buffalo	716-837-5430
NC	Zucker Assoc Raleigh	919-782-8433
OH	Baehr Greenleaf & Assoc Lakewood	216-221-9030
OH	Baehr Greenleaf & Assoc Columbus	614-486-4046
OH	Baehr Greenleaf & Assoc Dayton	513-439-0724
OR	Western Technical Sales	
	Hillsboro	503-640-4621
PA	Omni Sales Erdenheim	215-233-4600
TX	Electra Reps Dallas	214-387-3594
TX	Electra Reps Houston	713-530-2208
UT	Western Region Mktg SLC	801-355-7239
VA	Beacon North Inc Fairfax	703-591-1300
WA	Beacon North Inc Forest	800-239-8486
WA	Western Technical Sales Bellevue	206-641-3900
WA	Western Technical Sales Spokane	509-922-7600
WI	Sumer Inc Brookfield	414-784-6641
FR	Clare Div Can Ltd Rexdale ON	416-249-8341
FR	Clare Div St Laurent PQ	514-333-7667
FR	Woodbury Elctn Sales Ltd	
	Burnaby BC	604-430-3302

DISTRIBUTORS

AL	Powell/Huntsville Huntsville	205-539-2731
AL	Pioneer Huntsville	205-837-9300
AZ	Powell Elect Tempe	602-967-7538

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 In New Jersey (201) 592-0351, 0358, 0364
 Cable PEERADIO TWX 510-225-84

AZ	Richey Elect Tempe	602-894-9251
AZ	Bell Indus Tempe	602-966-7800
AZ	Marshall Elect Tempe	602-968-6181
AR	Carlton-Bates Little Rock	501-562-9100
CA	Bell Indus Sunnyvale	408-734-8570
CA	Powell Elctns Sunnyvale	408-739-4321
CA	Richey Elctns Sun Valley	213-768-3800
CA	Richey Elctns San Diego	714-565-4444
CA	Richey Elctns Orange County	714-991-7440
CA	Richey Elctns San Jose	408-946-6611
CA	Bell Indus Gardena	213-515-1800
CA	Marshall Elect Canoga Pk	213-999-5001
CA	Marshall Elect Sunnyvale	408-732-1100
CA	Powell Elect Costa Mesa	714-754-1717
CA	Bell Indus Roseville	916-969-3100
CA	Marshall Elect El Monte	213-686-0141
CA	Marshall Elect Irvine	714-556-6400
CA	Marshall Elect San Diego	714-578-9600
CO	Bell Indus Wheat Ridge	303-424-1985
CO	Marshall Elect Denver	303-427-1818
CT	Marshall Elect Wallingford	203-265-3822
FL	Powell Elctns Ft Lauderdale	305-979-5000
FL	Marshall Elect Orlando	305-841-1878
FL	Pioneer Orlando	305-859-3600
FL	Pioneer Ft Lauderdale	305-771-7520
GA	Dixie Elect Augusta	404-722-2055
GA	Marshall Elect Norcross	404-923-5750
HI	Industrial Electronics Honolulu	808-533-6095
IL	Ohm/Elctns Palatine	312-359-5500
IL	Klaus Radio Peoria	309-691-4840
IL	Newark Elect Chicago	312-638-4411
IL	Marshall Elect Bensenville	312-595-6622
IL	Pioneer Elk Grove Vlg	312-437-9680
IL	Bell Indus Chicago	312-982-9210
IL	Klaus Radio Quincy	217-223-7345
IN	Graham Elctns Sply Ft Wayne	219-423-3422
IN	Graham Elctns Sply Indpls	317-634-8202
IN	Pioneer Indpls	317-849-7300
MD	Pioneer/Wash Gaithersburg	301-948-0710
MD	Powell Elect Beltsville	301-937-4030
MD	Marshall Elect Gaithersburg	301-840-9450
MA	Marshall Elect Burlington	617-272-8200
MA	Powell Elctns Westboro	617-366-6100
MI	RS Elctns Livonia	313-525-1155
MI	Pioneer Livonia	313-525-1800
MN	Marshall Elect Plymouth	612-559-2211
MN	Pioneer/Twin Cities Minnetonka	612-935-5444
MO	Walters Radio Sply K C	816-531-7015
MO	Olive Elctns St Louis	314-426-5000
NE	Scott Elctns Sply Lincoln	402-466-8221
NE	Scott Elctns Sply Omaha	402-734-6750
NJ	Marshall Elect Clifton	201-340-1900
NJ	Relay Specialties Fair Lawn	201-797-3313
NJ	Marshall Elect Mt Laurel	609-234-9100
NM	Bell Indus Albuquerque	505-292-2700
NY	Marshall Elect Rochester	716-235-7620
NY	Marshall Elect Endwell	607-754-1570
NY	Marshall Elect Hauppauge	516-273-2424
NY	Simcona Elctns Rochester	716-328-3230
NY	Summit Dist Buffalo	716-887-2800
NY	Summit Dist Rochester	716-334-8110
NC	Pioneer/NC Greensboro	919-273-4441
NC	Dixie Elect Charlotte	704-377-5413
NC	Dixie Elect Winston-Salem	919-724-5961
NC	Powell Elect Cary	919-467-1212
OH	Pioneer/Cleve Cleve	216-587-3600
OH	Pioneer/Dayton Dayton	513-236-9900
OH	Graham Elect Cincinnati	513-772-1661
OH	Marshall Elect Dayton	513-236-8088
OH	Micro-Mil/Bell Ind Dayton	513-434-8231
OK	Radio Inc Tulsa	918-587-9123
OR	Almac-Stroum Elect Beaverton	503-641-9070
OR	Bell Industries Lake Oswego	503-241-4115
PA	Powell Elctns Phila	215-365-1900
PA	Leff Elect Bradnock	412-351-5000
PA	Pioneer Horsham	215-674-4000
PA	Pioneer Pittsburgh	412-782-2300
SC	Dixie Elect Columbia	803-779-5332
SC	Dixie Elect Greenville	803-232-5357
SC	Dixie Elect Florence	803-669-8201
TN	Dixie Elect Knoxville	615-938-4181
TX	Pioneer Dallas	214-386-7300
TX	Pioneer Houston	713-988-5555
TX	Marshall Elect Dallas	214-233-5200
TX	Marshall Elect Houston	713-789-6600
TX	Pioneer/Austin Austin	512-835-4000
UT	Bell Indus SLC	801-972-6969
WA	Almac-Stroum Bellevue	206-643-9992
WA	Bell Indus Bellevue	206-747-1515
WA	Marshall Elect Tukwila	206-575-3120
WI	Marshall Elctns Milw	414-475-6000
WI	Bell Indus Inc Waukesha	414-784-0235

DAVID CLARK CO INC 360
FRANKLIN ST WORCESTER
MA 01604 TWX 920482
G CONLON EMP 300 617-756-6216

CLARKE-HESS COMMUNICATIONS
RESEARCH 17 W 17TH ST
NEW YORK NY 10011
TWX 710-582-2292 212-255-2940
EMP 15 ENG 3 \$500-\$1,000
ADV PG 529

CA	BHL Assoc Burlingame	415-342-7850
IL	Pat Lind Electronics Chicago	312-726-3513
IN	Pat Lind Electronics Circle Pines	612-786-5770
FR	Equipments Scientifiques Garches	741 90 90
FR	Lyrans Instruments Ltd Hertis	09924-67161
FR	Nova Entrps Inc Minato-Ku, Tokyo	03-437-9281
FR	Elektronik Enheter 13 Torogatan Enskede	08-484839
FR	Comercial Goncalves Sao Paulo	227-3564
FR	Euroelectron Bilthoven Netherlands	030-783607
FR	Eurotherm Ltd Aberdeen Hong Kong	5-546391

FR	Neotronics Pty Ltd Avalon Australia	(02) 918-8220
FR	Telemeter Electronics GmbH Donauehrth Germany	01/202/7872
FR	Tectron AG Zurich Switz	055 95 12 12
CLAROSTAT MFG CO INC WASHINGTON	ST DOVER NH 03820	
TXW	510-297-4455	603-742-1120
H TAYLOR EMP 750 ENG 25 OVER \$10,000K		
AZ	More Sales Assoc Phoenix	602-265-9201
CA	Ewing-Foley Los Altos	415-941-4525
CA	Berman-Gravley Inc Costa Mesa	714-549-2122
CO	D/Z Assoc Niwot	303-443-4388
FL	Hawkins-Hutto-Peregoy Inc Maitland	305-831-2474
GA	Millar Electronics Inc Atlanta	404-261-6160
IL	Sumer Inc Rolling Meadows	312-991-8500
IN	Needler Sales Co Fort Wayne	219-447-2123
IA	Palatine Eng Sales Cedar Rapids	319-365-8071
KS	Palatine Eng Sales Blue Springs MO	816-229-4007
MA	Northeast Reps Hingham	617-749-8700
MI	Favco Inc Livonia	313-591-6112
MO	Palatine Eng Sales Inc Hazelwood	314-839-0800
NY	Leonard D Allen Inc Syracuse	315-437-8387
NY	Wincor Electr Sales Corp Manhasset	516-627-9474
NC	Millar Electronics Inc Raleigh	919-787-9564
OH	K W Electric Sales Dayton	513-990-2150
OK	J Y Schoonmaker Co Okla City	214-349-1650
OR	Electronic Sources Tigard	503-684-0040
PA	L D Lowery Inc Broomall	215-356-5300
TX	J Y Schoonmaker Co Inc Dallas	214-349-1650
VA	L D Lowery Inc Charlottesville	804-973-6672
WA	Electronic Sources Bellevue	206-451-3500

CLARY CORP PRECISION INSTR DIV
320 W CLARY AVE SAN GABRIEL
CA 91776 TWX 910-589-3369 818-287-6111
J JANNER EMP 65 ENG 7 \$5,000-\$10,000K

CLAUSS CUTLERY CO 223 N PROSPECT ST FREMONT OH 43420	419-332-7344
L BEAL EMP 150 ENG 3	
CA	Ross IV Assoc Newport Beach 714-650-5542
CA	J F Pell & Co Sunnyvale 408-730-5869
CA	C M Allen Co Atlanta 404-396-5492
IL	W H Paradise Carol Stream 312-653-6730
KS	Maury E Bettis Co Olathe 913-764-0621
MA	Yankee Tech Woburn 617-935-6278
MN	ISK Industries Long Lake 612-473-9391
NJ	Verlon Industries Norwood 201-767-7060
NY	Werne Clair Assoc New Hartford 315-385-8122
OH	Associate Sales Co Cleveland 216-831-0087
TX	E Tron Colleyville 817-498-8924
UT	Lamprecht Sales SLC 801-328-1524
FR	Jno R Anderson & Son Ltd Willowdale ON 223-4500

CLEAN ROOM PRODUCTS INC
1 CLEAN ROOM DR RONKONKOMA
NY 11779 516-588-7000
F GACONNIER EMP 125 ENG 15 OVER \$10,000K

CLEMENS MFG CO 520 WEBSTER
FOREST DR ST LOUIS MO 63119 314-961-7228
J CLEMENS EMP 2 ENG 1 UP TO \$100K

CLEVELAND MICA CO 1360 HIRD AVE LAKEWOOD OH 44107	216-226-1360
W BURTON EMP 75 ENG 2 \$1,000-\$2,500K	
IL	Special Electric Co Northfield 446-5113
OH	C J Voneman Co Cleveland 226-8000
TX	C Cline Frankston 876-2223
WI	Special Electric Co Milwaukee 383-6370

CLIFTON PRECISION LITTON
SYSTEMS INC BROADWAY
& MARPLE AVES CLIFTON HTS
PA 19018 TWX 510-669-9782 215-622-1000
C SCALIES EMP 1000 ENG 30 OVER \$10,000K

AZ	Clifton Precision Phoenix	602-242-0910
CA	Clifton Precision Woodland Hills	213-347-0603
CA	Clifton Precision Cupertino	408-996-7507
CO	Midwest Meridian Aurora	303-341-7550
FL	Boetto Corp Longwood	305-331-1771
IL	Midwest Meridian Elk Grove Vlg	312-640-9540
MA	Larcom Inc W Newton	617-244-2053
MN	Midwest Meridian Prior Lake	612-447-8222
MO	Midwest Meridian St Louis	314-878-4441
NY	R M Glueck Assoc Chappaqua	914-238-3233
NY	Reflex Elctns Greenlawn	516-549-1888
OH	Midwest Meridian Fairborn	513-879-7100
TX	Midwest Meridian Ft Worth	817-654-2132

CLIMATECHRONICS CORP 140 WILBUR PL
BOHEMIA NY 11716
TWX 510-1007669 516-567-7300
R HAMMAR EMP 45 ENG 6 \$2,500-\$5,000K
CA Climatronics Corp Glendale 818-956-7900

CLINTON ELECTRONICS CORP
6701 CLINTON RD ROCKFORD
IL 61131 TWX 257-484 815-633-1444
J HARTMAN

C M INC 103 DEWEY ST BLOOMFIELD
NJ 07003 201-338-6500
R NEILL EMP 50 ENG 5 \$2,500-\$5,000K

**CML MACARR DIV 666 PACIFIC ST
BROOKLYN NY 11217 TWX 125327 718-857-2400**
6 MANDELL EMP 100 ENG 10 \$5,000-\$10,000K
ADV PGS 18,141,285,331,336,340
OH Bill Teplitz Assoc Cleveland 216-439-3265

CNI INC RD 2 BOX 129AA POST RD
OREFIELD PA 18069 215-395-6444
M MCCANE EMP 8 ENG 2

COAST COIL CO 5333 W WASHINGTON
BLVD LOS ANGELES CA 90016
TWX 686 103 213-936-6188
D DOSAJ EMP 52 ENG 3 \$1,000-\$2,500K

COAXCO INC 12250 SW MYSLONY
BOX 489 TUALATIN OR 97062
TWX 360-980 503-692-2900
T KITCH EMP 27 ENG 1 \$500-\$1,000K
WA Sproul Seattle 789-3300

COAXIAL DYNAMICS INC 15210
INDUSTRIAL PKWY CLEVELAND
OH 44135 TWX 98-0630 215-267-2231

COBA INC 14920B 28 AVE N
PLYMOUTH MN 55441
TWX 910-576-1152 612-559-3772

COBEHN INC 226 PASSIAC AVE
FAIRFIELD NJ 07006 201-227-6675
G HENZEL EMP 4 ENG 2 \$250-\$500K
CA J Broadbent Fullerton 714-879-4974
IL EMF Corp Chicago 312-889-8323
MN Tonka Electronic Supply Mnpls 612-474-5414
FR Ameresco Inc Montclair NJ 746-5300

COBER ELECTRONICS INC 102
HAMILTON AVE STAMFORD
CT 06902 TWX 710-474-3371 203-327-0003
S HAFNER EMP 100 \$250-\$5,000K
AZ Trembly Assoc Box 27468 Tempe 602-967-2058
CA Blair Assoc Anaheim 714-220-1201
CO Trembly Assoc Lakewood 303-233-9544
NM Trembly Assoc Albuquerque 505-266-8616
NY Ossmann Inst Inc East Syracuse 315-437-7052

CODAR TECHNOLOGY INC 1428
FLORIDA AVE LONGMONT CO 80501 303-776-0472
EMP 17 ENG 5 \$1,000-\$2,500K
CA PBC Assoc Santa Clara 408-727-7244
CA Quality Peripherals Irvine 714-250-1033
IL Computer & Systems Sales Schaumburg 312-397-4040
MA R D Stout Assoc Assoc 617-263-1128
OR Northwest Mktg Assoc Portland 503-297-2581
WA Northwest Mktg Assoc Bellevue 206-455-5846
WI Computer & Systems Sales Waukesha 414-544-1141

CODIGO CORP OF VERMONT BOX 1170
STOWE VT 05672 802-253-7649
T FREEMAN EMP 8 ENG 1 \$500-\$1,000K

CODENOLL TECHNOLOGY CORP
1086 N BROADWAY YONKERS
NY 10701 TWX 646 159 914-965-6300

CODI SEMICONDUCTOR INC
144 MARKET ST KENILWORTH
NJ 07033 TWX 844796 201-298-0400
T STREET EMP 60 ENG 6 \$2,500-\$5,000K
AZ Gassner & Clark Tempe 602-968-9037
CA Leddy Assoc Mt View 415-969-6313
CA CDH & Assoc Westlake 213-707-1970
CT Phoenix Sales Co Ridgefield 203-438-9644
KS John F Guernsey Co Overland Pk 913-381-2225
MN Murnco Inc St Paul 612-484-8200

DISTRIBUTORS
NY Intercept Electronics Patterson 914-878-3355

COGNITRONICS CORP 25 CRESCENT ST
STAMFORD CT 06906
TWX 710-474-3523 203-327-5307
V HARRISON EMP 220 ENG 17 OVER \$10,000K

COHERENT GENERAL PICKER RD
STURBRIDGE MA 01566
TWX 951-806 617-347-2681
W SHINER EMP 200 ENG 40 OVER \$10,000K

COHERENT INC 3210 PORTER
DR BOX 10321 PALO ALTO
CA 94303 TWX 34-8304 415-493-2111
W SHINER EMP 1200 ENG 80 OVER \$10,000K
CA Coherent Medical Div Palo Alto 415-858-2250
CA Coherent Comps Grp Auburn 916-823-9550
MA Coherent General Sturbridge 617-347-2681
NY Coherent Scanning Sys Div Pittsford 716-248-8480

COHESIVE NETWORK INC 150
KNOWLES DR LOS GATOS CA 95030 408-370-4650
J GRADY EMP 75 ENG 28

COHU INC/ELECTRONICS DIV
BOX 85623 SAN DIEGO CA 92138
TWX 910-335-1244 619-277-6700
H WINTER EMP 225 ENG 20 \$5,000-\$10,000K

AZ Perspective Msmt San Diego 619-259-8011
CA Cohu Inc Mission Viejo 714-772-5210
CA Cohu Inc Cupertino 415-326-0280
CO Scientific Systems Bailey 303-838-4615
GA Cohu Inc Cumming 404-992-4730
NY Cohu Inc Binghamton 607-775-4437
NC EME Inc High Point 918-869-3335
VA Sutter & Co Vienna 703-938-0505

COILCRAFT INC OTIS DIV 222 AVE E
HAWARDEN IA 51023 712-552-2144
EMP 125 ENG 1 \$2,500-\$5,000K

COIL-Q CORP 340 BRONXVILLE RD BRONXVILLE NY 10708.....	914-337-4775
J JULIE EMP 10 ENG 1 \$250-\$500K	
COIL SPECIALTY CO 2730 CAROLEAN IND DR BOX 978 STATE COLLEGE PA 16804-0978 TWX 9103806294.....	814-234-7044
H HOFFMAN EMP 70 ENG 4 \$1,000-\$2,500K	
JA ARD Sales Co Cedar Rapids.....	319-393-6392
NJ Maier-Wetterhahn Assoc Willingboro.....	609-877-4662
NY A Morin Assoc Englewood Cliffs NJ.....	201-568-8505
OH KW Elctn Sales Dayton.....	513-890-2150
PA KW Elctn Sales Allison Pk.....	412-487-4300
VA ASH Sales Midlothian.....	804-794-3853
COIL WINDERS 40 E 2ND ST MINEOLA NY 11501.....	516-746-2310
S BURNS	

COIL WINDING EQUIPMENT CO INC 328 RAILROAD PLAZA, BOX 660 OYSTER BAY NY 11771 TWX 14-3128.....	516-922-5660
S GEORGE EMP 35 ENG 5 \$1,000-\$2,500K ADV PG 243	

AZ Electrical Specialty Co 202 S 29 St Phoenix	
CA Electrical Specialty Co 345 Swift Av S San Francisco	
CA Electrical Specialty Co 7244 Condor St LA	
CO Electrical Specialty Co 3999 Holly St Denver	
OR Electrical Specialty Co 3549 NW Yeon Portland	
TX Electrical Specialty Co 11210 Armour Dr El Paso	
UT Electrical Specialty Co 1499 S 700 W SLC	
WA Electrical Specialty Co 4471 S 134 St Tukwila	

COLBER CORP 26 BUFFINGTON ST IRVINGTON NJ 07111 TWX 710-995-4416.....	201-371-9500
R BRYNER EMP 65 ENG 1 \$5,000-\$10,000K	
IL Universal Mktg Chicago.....	312-286-2777
IN W W Bieberich Fort Wayne.....	219-432-2537
MA G M Assoc Box 2287 Framingham.....	617-872-4871
MI Ed Walter Grosse Pte Farms.....	313-882-3746
PA CMS Mktg Glenside.....	215-887-1325

COLE INSTRUMENT CORP 2650 S CRODDY WAY SANTA ANA CA 92704.....	714-556-3100
B HENDRICKS EMP 49 ENG 3 \$1,000-\$2,500K ADV PG 450	

AL Rakes Eng & Mktg Huntsville.....	205-533-3763
CA Gabriel-Damon & Assoc Anaheim.....	714-666-0660
CA Context Engineering Santa Cruz.....	408-748-8876
CA Nickerson-Gray & Assoc Los Altos.....	415-941-5777
CT Barton Assoc Glastonbury.....	203-633-9417
FL J P Williams Melbourne.....	305-259-7700
FL CBC Elctns Coral Springs.....	305-755-1111
GA Rakes Engng Atlanta.....	404-447-6937
IL Chadra Schilke & Assoc Wheaton.....	312-653-8126
KS Midwest Tech Sales Merriam.....	913-236-8557
MD Carwithen Assoc Silver Spring.....	301-589-9040
MI Forand Sales Co Birmingham.....	313-644-0087
MN Voltage Control Sales Mnpls.....	612-553-1051
MO Midwest Tech Sales St Charles.....	314-441-1012
NY E R Mertz & Assoc Garwood.....	201-232-4643
NJ R D Sherman Inc East Syracuse.....	315-637-9861
NC Rakes Engng 11702 Man O War Tr Raleigh.....	919-847-5079
OH Jim Finnegan & Co Cleveland.....	216-238-5905
PA TCA Broomall.....	215-353-2022
TX Control Components Dallas.....	214-458-8877

COLEMAN MICROWAVE CO WINDSOR KNIT RD EDINBURG VA 22824 TWX 710-830-0704.....	703-984-8848
G BRINKLEY EMP 45 ENG 4 \$1,000-\$2,500K	
CA Loeswick's Sunnyvale.....	408-745-6751
CA Cleland & Cressler Assoc San Diego.....	619-586-7262
CT MacArthur & Co Hamden.....	203-281-5847
FL Millett Assoc Melbourne Bch.....	305-725-5055
MD Nelson Elctns Ellicott City.....	301-747-7887
MA E Russell Lowell.....	617-458-7146
NJ Amrit Madan Randolph.....	201-895-4410
PA Rabal Assoc Huntingdon Valley.....	215-947-4825

COLLECTRON CORP 80-02 51 AVE ELMHURST NY 11373 TWX 710-582-2551.....	718-429-5200
M GOLD EMP 60 ENG 3 \$1,000-\$2,500K	
AZ Southwest Engineering Scottsdale.....	602-941-2828
MI Thies & Assoc Grand Rapids.....	616-245-0319
NJ Varrelman-Gorman Co Livingston.....	201-992-2505
OH J Tisdall Dayton.....	513-299-4392

COLLINS & ASSOC DON L 418 N GLENDALE AVE GLENDALE CA 91206.....	213-245-2711
EMP 4 ENG 2 \$250-\$500K	

COLLMER SEMICONDUCTOR INC 14368 PROTON RD DALLAS TX 75244 TWX 910-860-5462.....	214-233-1589
G UECKER EMP 40 ENG 4	
AL MacKay Smith & Assoc Huntsville.....	205-539-8000
CA Collmer Semi Mission Viejo.....	714-643-2588
CA Taarcom Inc Mountain View.....	415-960-1550
CO J F Hurlbut Co Golden.....	303-279-7796
FL Boggs & Assoc Oldsmar.....	813-855-1812
GA Mackay Smith & Assoc Norcross.....	404-449-7444
IL Electron Mktg Cop Des Plaines.....	312-298-2330
IN Technical Reps Columbus.....	812-376-9226
MN Loren Green Assoc Mnpls.....	612-571-6666
NJ Falk-Baker Assoc Nutley.....	201-661-2430
NY Rudell-Merrifield Assoc Buffalo.....	716-634-4300
NC MacKay Smith & Assoc Charlotte.....	704-372-1188
PA Electro Rep Hatboro.....	215-674-4421
TX Blackburn Assoc Dallas.....	214-692-8885
UT J F Hurlbut Co SLC.....	801-531-7472
FR R-Theta Inc Mississauga ON.....	416-890-0221

DISTRIBUTORS	
CO NEP Electronics Englewood.....	303-798-9898
IL NEP Electronics Chicago.....	312-625-8400
IN Altex Electronics Carmel.....	317-848-1323
MA Interface Electronics Hopkinton.....	617-435-6858

COLORADO CRYSTAL CORP 2303 W 8 ST LOVELAND CO 80537.....	303-667-9248
D LIND EMP 135 ENG 6	
CA Kolm Mktg Los Altos.....	415-948-2635
CA Porter Co Chatsworth.....	818-700-0808
KS Robinson Assoc Mission.....	913-262-1374
MA Bengal Assoc Randolph.....	617-961-4120
OR L D Electronics Beaverton.....	503-649-6177
WA L D Electronics Spokane.....	509-922-4883

COLORADO DATA SYSTEMS INC 3301 W HAMPTON AVE C ENGLEWOOD CO 80110 TWX 910-933-0193.....	800-237-2831
L KLAHN JR EMP 65 ENG 15 OVER \$10,000K	
CA Promotive Mktg Santa Clara.....	800-446-4044
CA Promotive Mktg San Diego.....	800-446-4044
FL Saber Assoc Melbourne.....	305-724-0920
IL Dytec/Central Arlington Hts.....	312-394-3380
NM Odyssey 1 Albuquerque.....	505-265-6645
TX Data Marketing Assoc Dallas.....	214-661-0300
WA Showalter Instruments Bellevue.....	206-746-7970

DISTRIBUTORS	
MN Dytec/North St Paul.....	612-645-5816
MO Dytec/Central Maryland Hts.....	314-569-2990
NJ Scientific Devices Teaneck.....	201-837-1004
OH WKM Assoc Dayton.....	513-434-7500
VA Creative Mktg Assoc McLean.....	703-422-9100

COLORADO VIDEO INC BOX 928 BOULDER CO 80306 TWX 910-940-3248.....	303-444-3972
J DOLE EMP 47 ENG 8 \$1,000-\$2,500K	
DC Colorado Video Washington.....	202-863-0132
MA Colorado Video Chelmsford.....	617-256-3381
WA Colorado Video Edmonds.....	206-774-6869
FR Colorado Video Inc Mississauga ON.....	416-826-6540

DISTRIBUTORS	
CA Perspective Msmts Del Mar.....	619-259-8000
CA Technical Inst Co San Francisco.....	415-431-8231
CO Scientific Systems Inc Bailey.....	303-838-4615
IL Televideo Consultants Evanston.....	312-328-3282
MA AZI Dedham.....	617-326-7410
MN North Central Inst Plymouth.....	612-559-3008
MO Video Masters Kansas City.....	816-474-8530
NC EME High Point.....	919-869-3335
VA EME IV Williamsburg.....	804-253-0171
WA Boyle Inst Gig Harbor.....	206-858-8155

COLORGRAPHICS COMMUNICATIONS CORP 2379 JOHN GLENN DR ATLANTA GA 30341 TWX 700574.....	404-455-3921
E MINTZ EMP 50 ENG 8	

COLT INDUSTRIES INC CRUCIBLE MAGNETICS DIV RFD-2 ELIZABETH TOWN KY 42701 TWX 204-160.....	502-769-1333
EMP 560 OVER \$10,000K	

COLUMBIA COMPONENTS CO M E SYSTEMS INC 9 DIVISION ST SIDNEY NY 13838.....	607-563-3520
W MONTREN EMP 15 ENG 1	
CA R T Assoc.....	818-788-7588
MA J K Assoc.....	617-321-2922
NJ Jay Assoc.....	609-662-0399

COLUMBIA RESEARCH LABS INC MACDADE BLVD & BULLENS LN WOODLYN PA 19094 TWX 510-669-3625.....	215-872-3900
J SARTY EMP 105 ENG 10 \$2,500-\$5,000K	
CT Applied Msmts Inc Hamden.....	203-288-5288
MA Applied Msmts Inc Acton.....	617-263-2766

MI Electro Sales Assoc Livonia.....	313-474-7320
OH Electro Sales Assoc Dayton.....	513-426-5551
VT Applied Msmts Inc Arlington.....	802-375-9537
FR Hoskin Scien Ltd Vancouver BC.....	604-872-7894
FR Hoskin Scien Ltd Oakville ON.....	416-842-0237

COLUMBIA SCIENTIFIC INDUSTRIES CORP BOX 9908 AUSTIN TX 78766 TWX 910-874-1364.....	512-258-5191
J PASMORE EMP 90 ENG 9	
AZ A-Tek 8126 N 23 Av Mesa.....	602-830-8546
CA Charlton Technology San Diego.....	619-578-5040
CO A-Tek Denver.....	303-759-9365
GA API Marietta.....	404-977-7226
KS Tech-Science Overland Pk.....	913-381-2600
LA Instrumentation Prods Baton Rouge.....	504-924-3827
NY MKS Scientific Cheetowaga.....	716-685-3430
OH AIS Cincinnati.....	513-489-6901
TX A-Tek Arlington.....	817-461-3214

COLUMBUS ELECTRIC MFG CO RTE 2 BOX 90 TRI-COUNTY IND PK PINEY FLATS TN 37686 TWX 533090.....	615-538-8191
J LIPSCOMB EMP 100 ENG 2 \$2,500-\$5,000K	
CA F Alleman La Mirada.....	714-521-2102

COLUMBUS INSTRUMENTS INTL CORP 950 N HAGUE AVE COLUMBUS OH 43204 TWX 246514.....	614-488-6176
J CZEKAJEWSKI EMP 30 ENG 10 \$1,000-\$2,500K	

COMARK CORP 93 WEST ST BOX 474 MEDFIELD MA 02052 TWX 703156.....	617-359-8161
A DEC EMP 37 ENG 4 \$2,500-\$5,000K	

COMCO INC 2151 N LINCOLN ST BURBANK CA 91504 TWX 910-498-2208.....	818-841-5500
N WEIGHTMAN EMP 40 ENG 6 \$1,000-\$2,500K	
CA Dentech Sales & Svc Santa Clara.....	408-988-1799
IN Indiana Machy & Supply Fortville.....	317-485-5157
KS American Imd Tool Shawnee Mission.....	913-432-4332
MA MPS Assoc Chelmsford.....	617-937-9420
MN Machine Tool Supply Egan.....	612-452-4400
NJ Banico Old Bridge.....	201-251-6868
NY Watmet Inc Lewiston.....	716-285-3595
SC Wilkie Assoc Lexington.....	803-359-4531
TX E-Tron Colleyville.....	817-498-8924
WA Mars Bellevue.....	206-747-3292
WI Metal Finishing Supply Co Brookfield.....	414-782-0555
FR Waters Metal Prods Ltd Niagara Falls ON.....	416-356-4925

COMCO PLASTICS INC 98-42 JAMAICA AVE RICHMOND HILL NY 11418.....	718-849-9000
J KRACHIE EMP 125 ENG 4	

AL Commercial Plastics Birmingham.....	205-326-0644
CA Commercial Plastics Gardena.....	213-532-9151
CT Commercial Plastics Inc Orange.....	203-799-2351
FL Commercial Plastics Inc Miami.....	305-621-0000
GA Commercial Plastics Inc Atlanta.....	404-577-2600
IL Commercial Plastics Inc Chicago.....	312-496-1800
MD Commercial Plastics Hyattsville.....	301-864-6226
MD Commercial Plastics Baltimore.....	301-889-6640
MA Commercial Plastics Somerville.....	617-623-2100
MI Commercial Plastics & Supply Newark.....	313-755-1700
NJ Commercial Plastics & Supply Warren.....	201-824-5400
NY Commercial Plastics Farmingdale.....	516-293-9090
NY Commercial Plastics & Supply NYC.....	212-477-5000
NC Commercial Plastics Inc Raleigh.....	919-828-4100
OH Commercial Plastics Cleveland.....	216-687-0300
PA Commercial Plastics Phila.....	215-455-8800
PA Commercial Plastics Inc Pittsburgh.....	412 231-2212
RI Commercial Plastics Inc East Providence.....	401-941-5200
TN Commercial Plastics Knoxville.....	615-637-1000
TX Commercial Plastics & Supply Dallas.....	214 631-8170
UT Commercial Plastics S L C.....	801-486-9275
FR Commercial Plastics Inc Montreal PQ.....	514-489-9736
FR Commercial Plastics San Juan PR.....	809-722-2145

COMDATA CORP 7900 NAGLE AVE MORTON GROVE IL 60053 TWX 910-223-3617.....	312-470-9600
P TOWLE EMP 65 ENG 6 \$2,500-\$5,000K	

COMDEL INC BEVERLY AIRPORT BEVERLY MA 01915.....	617-927-3144
T JOHNSON, JR EMP 20 ENG 5 \$1,000-\$2,500K	

COMDESIGN INC 751 S KELLOGG AVE GOLETA CA 93117 TWX 910-334-1189.....	805-964-9852
T GOODWIN EMP 130 ENG 50	



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COMLINEAR CORP BOX 20600 FORT COLLINS CO 80522 TWX 45-0881	303-226-0500
J PERZOW EMP 70 ENG 20 \$2,500-\$5,000K	
AL Beacon Electronics Huntsville	205-881-5031
AR Beacon Electronics Little Rock	501-224-5449
CA Cain-White & Co Los Altos	415-948-6533
CA Cain Technology LA	213-477-9054
CO Thorson Rocky Mtn Englewood	303-779-0666
DC Beacon North Fairfax VA	703-591-1300
FL Beacon Electronics Clearwater	813-796-2378
GA Beacon Electronics Atlanta	404-256-9640
IL Dytec Central Arlington Hts	312-394-3380
MA Sickles Assoc Lexington	617-862-5100
MN Dytec North St Paul	612-645-5816
MO Dytec South Maryland Hts	314-569-2990
NJ Eastern Instr Sales Bensalem PA	215-245-6660
NM Alliance Electronics Albuquerque	505-292-3360
NY Robtrn Skaneateles	315-685-5731
NY US Technical Mktg Kings Park	516-724-4250
NC Beacon Electronics Raleigh	919-787-0330
PA Eastern Instr Sales Bensalem	215-245-6660
TX McDonald Assoc Ft Worth	214-238-1858
UT Thorson Rocky Mtn West Valley City	801-973-7969
VA Beacon North Forest	804-239-8486
FR Longman Sales Mississauga ON	416-677-8100

COMLOCK INC 1142 N GILBERT ST ANAHEIM CA 92801 TWX 9105911892	714-991-1580
H PLUMHOFF EMP 17 ENG 2 \$500-\$1,000K	
CA HMC Corp Arcadia	818-447-0958

COMINCO ELECTRONIC MATERIALS INC E 15128 EUCLID AVE SPOKANE WA 99216 TWX 32-6492	509-924-2200
D GUTTINGER EMP 145 ENG 15 OVER \$10,000K	
AZ Cominco Scottsdale	602-951-3527
CA Cominco San Diego	619-275-4140
CA Cominco Gilroy	408-848-2802
MA Cominco Longmeadow	413-567-9163

COMMONWEALTH ENGINEERING BOX 531 ST LAURENT MONTREAL PQ H4L4V7	514-744-1004
C MURPHY	

COMMUNICATION ASSOCIATES INC 200 MCKAY RD HUNTINGTON STATION NY 11746 TWX 510-226-6998	516-271-0800
A CARLSON EMP 250 ENG 15 \$2,500-\$5,000K	

COMMUNICATION COIL CO 2839 N NARRAGANSET AVE CHICAGO IL 60634 TWX 573781	312-637-1333
B JAROSKI EMP 100 ENG 4	
FL Jerry Williams Inc Melbourne	305-259-7700
IA Iowa Midland Supply Cedar Rapids	319-366-3555
MD Mort Lader Co Columbia	202-296-2497
NE Iowa Midland Supply Omaha	402-341-4466
NC Mort Lader Co Raleigh	919-828-3870
PA Mort Lader Co Lafayette Hill	215-825-3177
VA Mort Lader Co Conowingo	301-378-3449

COMMUNICATIONS EQUIPMENT CO INC 6443 WESTERN AVE GLEN ARBOR MI 48636	616-334-3081
T GARMHAUSEN EMP 10 ENG 2 \$500-\$1,000K	
CA Bidwell Sales Assoc Gardena	213-770-0300
CO Bill Newman & Co Denver	303-425-9503
LA Carey & Assoc New Orleans	504-899-4040
MI Industrial Controls Graying	517-438-8022
TX Carey & Assoc Richardson	214-234-2202

COMMUNICATIONS INSTRUMENTS INC BOX 520 FAIRVIEW NC 28730 TWX 577436	704-628-1711
R MCCLINTON EMP 360 ENG 10 OVER \$10,000K	

DISTRIBUTORS	
CA Bell Indus Sunnyvale	408-734-8570
CA Norstan Elect Santa Ana	213-924-7851
FL Dixie Sales Oviedo	305-365-5211
IL Ohm Electronics Palatine	312-359-5500
IL Newark Electronics Chicago	312-784-5100
KS Airtechnics Inc Wichita	316-267-2849
MD Treeko Sales Beltsville	301-937-8260
MD Cameo Electronics Owing Mills	301-363-6160
NJ Relay Specialties Fair Lawn	201-894-0800
NY Sherburn Electronics Hauppauge	516-231-4300
OH Televox Inc Dayton	513-294-4499
OH Pioneer Electronics Dayton	513-459-1622
WA Almac-Strom Elect Bellevue	206-645-9992
FR Ferro-Technique Ltd Montreal PQ	514-341-3450

COMMUNITRONICS LTD 160 WILBUR PL BOHEMIA NY 11716	516-567-8320
G JAEN EMP 35 ENG 3 \$1,000-\$2,500K	
CA RF Assoc 1621 Pontius Av LA	

COMPAC 1320-13 LINCOLN AVE HOLBROOK NY 11741 TWX 510-227-1064	516-585-3400
V VALENTI EMP 35 ENG 6 \$500-\$1,000K	
ADV PG 174	

AL EMA Inc Huntsville	205-536-3044
AZ Territorial Mktg Scottsdale	602-994-8665
CA Cal Rep Westlake Village	818-991-1940
CA Dura Elect Sales Cupertino	408-255-2084
FL EMS Inc Melbourne	305-724-1027
GA EMA Inc Atlanta	404-448-1215
IL R-Tek Inc Prospect Hts	312-459-6170
MA L-K Assoc Haverhill	617-373-1313
MO Abrams & Assoc St Louis	314-569-0447
NJ Brown Assoc Sicklerville	609-629-2254
NC EMA Inc Raleigh	919-847-8800
SC EMA Inc Greenville	803-233-4638
TX Talo Products Dallas	214-644-6010

VA Schibley Assoc Fairfax	703-591-3008
DISTRIBUTORS	
CA Electronic Resources Sunnyvale	408-745-1420
COMPAGNIE GENERALE DE TELECOMMUNICATIONS INTL-CGTI 2 WINDOWARD AVE WHITE PLAINS NY 10605 TWX 710-568-1305	914-949-3719
G SNIDER EMP 324 ENG 14 OVER \$10,000K	
COMPLEX SYSTEMS INC 4930 RESEARCH DR HUNTSVILLE AL 35805 TWX 880114	205-830-4310
B THOMAS EMP 30 ENG 13	
DISTRIBUTORS	
CA DA/COM Inc Van Nuys	213-908-9804
CA DA/COM Inc Newport Beach	714-851-8142
CA DA/COM Inc San Jose	408-998-2588
GA David Brown Assoc Stone Mtn	404-498-2800
MA Data Comm Assoc Framingham	617-620-1800
NJ Glasgal Communications Northvale	201-768-8082
NY Ossman Computer Tech E Syracuse	315-437-6666
NY Ossman Computer Tech Rochester	716-473-5720
OH Radix/Computer Dayton	513-434-8647
PA DENCO Data Equip Ambler	215-542-9876
VA DCS Falls Church	703-241-7803
COMPLIANCE DESIGN INC 593 MASSACHUSETTS AVE BOXBOROUGH MA 01719	617-264-4668
I BARRY EMP 7 ENG 4 \$1,000-\$2,500K	
COMPONENT MFG SVC INC 100 COMPONENT PARK WEST BRIDGEWATER MA 02379 TWX 710-390-1081	617-580-0111
R OWENS EMP 500 ENG 12 OVER \$10,000K	
CA A C Stearns Co Box 709 Burbank	213-849-5776
CA Woodworth Co Redwood City	415-365-0252
CO Component Prods Sales Boulder	303-530-2800
MN Northstar Components Mnpls	612-553-1888
NJ Vogt Assoc Box 514 Haddonfield	609-428-2506
RI Ralph Lux Box 8428 Cranston	401-944-4195
TX Molded Connector & Cable Svc Austin	512-458-2377
WI Badgereg Milwaukee	414-258-6630
COMPONENT RESEARCH CO INC 1655 26 ST SANTA MONICA CA 90404 TWX 910-343-6864	213-829-3615
S KELLERMAN EMP 223 ENG 5 \$2,500-\$5,000K	
COMPONENTS CORP 6 KINSEY PL DENVER NJ 07834	201-627-0290
W GORDON EMP 20 ENG 2 \$500-\$1,000K	
AZ Southwest Engrg Tempe	602-941-2828
FL EAB Inc Orlando	305-898-7444
MA Henik Assoc Northboro	617-393-3127
MI Michigan Mktg & Sales Brighton	313-229-8218
MN SJ Collins & Assoc Hopkins	612-933-7661
NJ Synergy Sales New Brunswick	201-828-5090
OH Dynel Co Dayton	513-434-6467
TX Zeus Engrg Plano	214-423-2027
FR ASG/Wilson Sales Mississauga ON	416-677-8200

DISTRIBUTORS	
CA Control Design Sply Buena Park	213-802-2429
CA Control Design Sply San Carlos	415-592-4808
FL Control Design Sply Altamonte Sprgs	305-788-3220
GA Control Design Sply Stone Mountain	404-979-3502
IL Control Design Sply Genoa	815-784-6519
IN Control Design Sply Indpls	317-788-0551
IA Control Design Sply Marion	319-373-2923
MA Papi Supply Northboro	617-393-3127
MN Control Design Sply Mnpls	612-721-1628
MO Control Design Sply St Louis	314-426-3160
NJ QC Electronics Englewood	201-569-0975
NC Control Design Sply Charlotte	704-588-4410
PA Control Design Sply Malvern	215-296-0150
TX Control Design Sply Dallas	214-358-0489
WI Control Design Sply New Berlin	414-784-1016

COMPONENT SPECIALTIES CORP 9143 E LAROSA DR TEMPLE CITY CA 91780	213-287-3221
D HEINS EMP 45 ENG 3 \$1,000-\$2,500K	

COMPRESSION LABS INC 2305 BERING DR SAN JOSE CA 95131 TWX 910-338-0125	408-946-3060
C MARSZEWSKI EMP 80 ENG 20 OVER \$10,000K	

DISTRIBUTORS	
CA US Telecom Atlanta	404-320-1033
CA Vidicom Westlake Vlg	818-889-3653
CA Isacom Atlanta	404-320-1033
MD American Satellite Rockville	301-251-8319
NJ AT & T Information Sys Basking Ridge	201-953-6166

COMPUDAS CORP 61 BROWN RD BOX 4735 ITHACA NY 14852 TWX 650-249-8942	607-257-3003
L MCEVOY EMP 20 ENG 7	
For Sales Offices See Ithaco Inc Listings	

COMPU-MECH INC 5242 ANGOLA RD TOLEDO OH 43615	419-535-6702
G RUFF EMP 10 ENG 6 \$500-\$1,000K	

COMPUMOTOR CORP 1179 N MCDOWELL BLVD PETALUMA CA 94952 TWX 510-744-2115	707-778-1244
R JOHNSON EMP 75 ENG 35 OVER \$10,000K	

COMPUPRO 3506 BREAKWATER CT HAYWARD CA 94545	415-786-0909
J LANPHEAR EMP 130 ENG 10	

DISTRIBUTORS	
AZ Micro Peripheral Mktg Scottsdale	602-991-7870
CA Compac Microelectronics Santa Clara	408-773-0444
IL Tek-Aids Industries Arlington Hts	312-870-7400
NC General Semantics Greensboro	919-378-1500
OH QDP Computer Sys Brecksville	216-526-0338
PA Tek-Aids Industries King of Prussia	215-337-3220
TX Business Systems Paris	214-785-0041

COMPUTALKER CONSULTANTS 1730 21 ST SANTA MONICA CA 90404	213-828-6546
R ANDERSON EMP 10 ENG 2 UP TO \$100K	

COMPUTER AUTOMATION 2181 DUPONT DR IRVINE CA 92713 TWX 910-595-2543	714-833-8830
D SHAPIRO EMP 1300 OVER \$10,000K	
CA Computer Automation Santa Clara	408-727-6800
CA Computer Automation Irvine	714-863-1554
GA Computer Automation Atlanta	404-953-3240
IL Computer Automation Bensenville	312-860-1830
NJ Computer Automation Bloomfield	201-338-8870
TX Computer Automation Dallas	214-620-7001

COMPUTER CABLE & PRODUCTS INC 61 EXECUTIVE BLVD FARMINGDALE NY 11735	516-293-1610
M SCANZAND EMP 100 ENG 2 \$5,000-\$10,000K	
CA Vertex CCP Inc Torrance	213-212-6066
NY Computer Cable & Prods Toll Free	800-293-9434

DISTRIBUTORS	
CT Vertex Elect Derby	203-736-6511
MD Vertex Mid-Atlantic Hanover	301-798-5000
OH Vertex W & C Cleveland	216-831-7100

COMPUTER CASE CO 3947 DANFORD SQ COLUMBUS OH 43220	614-876-1784
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COMPUTER COMMUNICATIONS INC 2610 COLUMBIA ST TORRANCE CA 90503 TWX 910-349-7538	213-320-9101
R COLE EMP 150 ENG 65 OVER \$10,000K	
CA Computer Commun San Jose	408-295-4060
IL Computer Commun Hillside	312-449-8300
NY Computer Commun Great Neck	516-482-8810
VA Computer Commun Alexandria	703-823-2777

COMPUTER COMPONENTS INC 629 FIFTH AVE PELHAM NY 10803	914-738-1611
G TSOKRIS EMP 35 ENG 3 \$500-\$1,000K	

COMPUTER CONSOLES INC 97 HUMBOLDT ST ROCHESTER NY 14609 TWX 978-407	716-482-5000
J JACOBSON EMP 1200 ENG 250 OVER \$10,000K	
AL Computer Consoles Birmingham	205-322-1608
CA Computer Consoles Long Beach	213-428-5444
GA Computer Consoles Atlanta	404-451-8968
IL Computer Consoles Des Plaines	312-299-9340
MA Computer Consoles Cambridge	617-576-7900
MO Computer Consoles St Louis	314-821-8805
NE Computer Consoles Omaha	402-330-4202
NJ Computer Consoles Parsippany	201-898-9200
NY Computer Consoles New York	212-839-0965
OH Computer Consoles Westlake	216-835-2553
TX Computer Consoles Houston	713-981-0843

COMPUTER CONVERSIONS CORP 6 DUNTON CT EAST NORTHPORT NY 11731 TWX 510-226-0448	516-261-3300
S RENARD EMP 50 ENG 5 \$1,000-\$2,500K	
ADV PGS 174,457	

CA Crown Electronics N Hollywood	213-877-3550
CA Motion Control Buena Park	714-994-6952
IL GNI Sales Downers Grove	312-985-3764
MA Technology Prods Group Brookline	617-731-0858
MI Industrial Sensors Newport	313-289-3734
MN Busch Elec Mnpls	612-835-2044
NM Fry-Gates Co Albuquerque	505-298-1875
NY Barthel Enterprises Penfield	716-377-3018
NC Bass & Assoc Kannapolis	704-933-1762
OH Rilco Cincinnati	513-271-0630
PA Greye Glass Assoc Ingoma	412-366-6664
TX Jacobson Co Dallas	214-363-7584

COMPUTER DEVICES CORP 63 AUSTIN BLVD COMMACK NY 11725	516-543-4220
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COMPUTER DYNAMICS INC 105 S MAIN ST GREER SC 29651	803-877-7471
B ALEXANDER EMP 24 ENG 7 \$1,000-\$2,500K	
CA Covington Sales Co Santa Clara	408-241-2877
MI Hal C Heym Assoc Rockford	616-874-7443

COMPUTER EXTENSION SYSTEMS INC 16850 TITAN DR HOUSTON TX 77058 TWX 774279	713-488-8830
EMP 30 ENG 3 \$2,500-\$5,000K	

COMPUTER GRAPHICS WORLD 119 RUSSELL ST LITTLETON MA 01460	617-486-9501
R DROMGOOLE	

COMPUTER INSTRUMENTS CORP I & C DIV 100 MADISON AVE HEMPSTEAD NY 11550 TWX 510-222-4189	516-483-8200
F COOPER EMP 51 ENG 7 \$2,500-\$5,000K	

COMPUTER-LINK CORP 3 LOPEZ RD
WILMINGTON MA 01887
TWX 949470 617-657-8820
D BLACKBURN EMP 150 ENG 25 OVER \$10,000K
CA Computer-Link San Jose 408-358-2110
CA Computer-Link Santa Ana 714-957-8870
FL Computer-Link Ormond Beach 904-756-4559
IL Computer-Link Buffalo Grove 312-520-3622
NJ Computer-Link Marlton 609-983-1007
NY Computer-Link Sparta 201-729-4430
OH Computer-Link Cleveland 800-225-1616
TX Computer-Link Dallas 214-392-0529
VA Computer-Link Woodbridge 703-321-4130

COMPUTER MEASUREMENTS CO
9600 OWENSMOUTH AVE
CHATSORTH CA 91311 818-341-0800
N SANTATIKUL EMP 14 ENG 3 \$500-\$1,000K

COMPUTER NUMERICAL CONTROL CORP
150-N NEW BOSTON ST WOBURN
MA 01801 TWX 710-348-7521 617-933-0091
G KARRIDAS EMP 10 ENG 2 \$500-\$1,000K
Z WJM Sales Tuscon 602-888-4847
CA LEREP Santa Cruz 408-458-0667
CA Technology Assoc Newport Beach 714-644-0178
FL Werndli Cooke & Assoc Orlando 813-581-1492
MD Sieber Co Silver Spring 301-681-3770
MI Daner Hayes Wayland 617-655-0888
MI Inter-Comm Grand Blanc 313-695-0665
MN Engineering Prods Mnpls 612-835-9022
NC Zim-Tek Fayetteville 919-488-4101
OH Mecom Inc Risingsun 419-457-3231
TX Crockett Southwest Dallas 214-438-2776

COMPUTER OPTICAL PRODUCTS INC
9353 ETON AVE CHATSWORTH
CA 91311 TWX 215-406 818-882-0424
B GILLESPIE EMP 100 ENG 11 \$5,000-\$10,000K

COMPUTER POWER INC 124 W MAIN ST
HIGH BRIDGE NJ 08829
TWX 847481 201-638-8000
EMP 130 ENG 10 OVER \$10,000K
CA Basic Systems Corp Inglewood 213-673-4300
CA Moxon Elctns Anaheim 714-937-1700
CA Moxon Elctns San Jose 408-298-7290
CO Williams-Assoc Commerce City 303-289-5647
FL Col-Ins-Co Orlando 305-423-7615
MD K D Assoc Linthicum 301-636-1151
MI Daner-Hayes Inc Wayland 617-655-0888
MI Jim Finnegan & Co Spring Lake 616-846-4980
NM Williams-Assoc Albuquerque 505-255-1638
OH Jim Finnegan & Co Cleveland 216-238-0595
OR Rush-Drake Elctns Portland 503-224-3145
PA Daner-Hayes Inc Doylestown 800-227-8760
UT Williams-Assoc SLC 801-485-6511
WA Rush-Drake Elctns Bellevue 206-454-2383

COMPUTER PRODUCTS INC COMPOWER
DIV 2220 LUNDY AVE SAN JOSE
CA 95131 TWX 910-338-2389 408-942-1600
R KREPS EMP 100
For Sales Offices/Reps & Distributors See
Computer Products Inc.- Power Conversion Group

COMPUTER PRODUCTS INC GRANT
TECH DIV 11 SUMMER ST
CHELMSFORD MA 01824
TWX 510-600-8133 617-256-8881
T MCLEOD EMP 35 ENG 8 \$5,000-\$10,000K
CA Datarep Inc Los Gatos 408-395-1212
CA RM Controls Westlake Vlg 818-707-1123
CT BBI Portland 203-342-0648
IL Mar-Con Assoc Skokie 312-675-6450
L R O I Inc Burlington 617-272-4800
OH CG Controls Hudson 216-656-2191
PA Clark Bach Assoc Mendenhall 215-388-7903
FR Tracan Elctns Corp Mississauga
ON 416-625-7752

DISTRIBUTORS
MN Applied Technology Sales St Paul 612-647-0575
WI SPM Int'l Corp Pewaukee 414-691-2900

COMPUTER PRODUCTS INC-POWER
CONVERSION GRP 2900 GATEWAY DR
POMPANO BEACH FL 33069
TWX 510-956-3098 305-974-5500
N BERKOWITZ EMP 1100 ENG 50 OVER \$10,000K
AL Electro-Mech Sales Huntsville 205-533-2100
AZ Elec-Corn Assoc Tempe 602-967-8644
CA Manco Santa Clara 408-496-6611
CA Power Partners Los Angeles 213-215-0800
CA Manco Folsom 916-985-0370
CO Parker Webster Parker 303-841-4878
FL EPM Corp Margate 305-977-0331
FL EPM Corp Orlando 305-425-6149
FL Tech-Rep Assoc Clearwater 813-530-1619
GA Electro-Mech Sales Atlanta 404-447-6478
D Cascade Components Boise 208-343-9886
L Janus Inc Itasca 312-250-9650
N Fred A Dorsey & Assoc Indpls 317-842-0060
A Ensco-Rep Inc Davenport 319-366-6600
S Ensco-Rep Inc Overland Park 913-381-7557
S Ensco-Rep Inc Wichita 316-683-1070
Y Fred A Dorsey & Assoc Louisville 502-426-3540
VD Professional Reps Columbia 301-992-7460
VA Alpha-Omega Sales Woburn 617-933-0237
VI Lowell Wendt Mktg Livonia 313-464-2722
VN Smiley Scott Assoc Bloomington 612-888-5551
MO Ensco-Rep Inc Maryland Hts 314-423-3935
J Tecmimat Englewood 201-569-4200
J Comp-Tech Sales Hasbrouck Hts 201-288-7400
NY Empire Tech Assoc Binghamton 607-772-0651
NC Electro-Mech Sales Raleigh 919-851-8165
OH Geotronics Cleveland 216-526-2535
OH Geotronics Inc Trotwood 513-854-5939
OK MGR Electronics Bixby 918-369-5186
OK Micro Sales Aloha 503-642-1818

PA Denco Data Equip Norristown 215-630-8990
TN Electro-Mech Sales Jonesboro 615-753-2964
TX MGR Electronics Dallas 214-238-5246
TX MGR Electronics Austin 512-250-0926
TX MGR Electronics Houston 713-497-8306
TX Robt R Thomas Co Addison 214-233-8235
UT Parker Webster Murray 801-266-9939
WA Micro Sales Bellevue 206-451-0568
WI Janus, Inc Milwaukee 414-476-9104
FR Kaytronics Inc Ville St
Pierre PQ 514-367-0101
FR Kaytronics Inc Kanata ON 613-592-6606
FR Kaytronics Inc Concord ON 416-669-2262
FR Kaytronics Inc Surrey BC 604-581-5005

DISTRIBUTORS
AZ Bell Industries Tempe 602-966-7800
CA B J Wolfe Entrps No Hollywood 213-877-5518
CA Power Systems Dist Milpitas 408-263-1063
CA Bell Industries Gardena 213-515-1800
CA Bell Industries Garden Grove 714-220-0681
CA Bell Industries San Diego 619-268-1277
CA Bell Industries Sunnyvale 408-734-8570
CA Bell Industries Thousand Oaks 805-499-6821
CA Bell Industries Roseville 916-969-3100
CO Bell Industries Wheat Ridge 303-424-1985
CT RC Components Milford 203-874-0006
CT Lionex Corp Meriden 203-237-2282
FL Diecko Ft Lauderdale 305-973-8700
FL Bell Industries Largo 813-541-4434
GA Bell Industries Norcross 404-662-0923
IL Bell Industries Elk Grove Vlg 312-640-1910
IN Bell Industries Indpls 317-634-8202
IN Bell Industries Fort Wayne 219-423-3422
IN Bell Industries Lafayette 317-423-5564
IA Bell Industries Cedar Rapids 319-395-0730
MD Aztech Electronics Columbia 301-995-1760
MD Lionex Corp Columbia 301-964-0040
MA RC Components Wilmington 617-273-1860
MA Lionex Corp Wilmington 617-657-5170
MI LWC Distributors Livonia 313-464-7700
MI Bell Industries Ann Arbor 313-971-9093
NJ Lionex Corp Fairfield 201-227-7960
NM Bell Industries Albuquerque 505-292-2700
NY Lionex Corp Hauppauge 516-273-1660
OH Alpha Distributors Richfield 216-659-7100
OH Bell Industries Dayton 513-435-8660
OK Norvell Electronics Tulsa 918-254-8606
OR Bell Industries Lake Oswego 503-241-4115
PA Lionex Corp Horsham 215-443-5150
PA Century Electronics Norristown 215-631-5400
TN Bell Industries Nashville 615-242-2682
TX Norvell Electronics Dallas 214-233-0020
TX Norvell Electronics Austin 512-458-8106
TX Norvell Electronics Houston 713-777-1666
UT Bell Industries SLC 801-972-6969
WA Bell Industries Bellevue 206-747-1515
WI Bell Industries Waukesha 414-547-8879

COMPUTER PRODUCTS INC POWER
PRODUCTS DIV 2981 GATEWAY DR
POMPANO BEACH FL 33069
TWX 510-956-3098 305-974-2442
L MOSCOWITZ EMP 145 ENG 10
For Sales Office/Reps & Distributors see Computer
Products Inc., Power Conversion Group

COMPUTER PRODUCTS INC STEVENS
ARNOLD DIV 7 ELKINS ST
SOUTH BOSTON MA 02127
TWX 710-339-0855 617-268-1170
E CONLEY JR EMP 301 ENG 25
AL Electro-Mech Huntsville 205-533-2100
AZ Elecom Tempe 602-967-8644
CA Power Partners Los Angeles 215-290-1681
CA Manco Santa Clara 408-496-6611
CO Parker Webster Parker 303-841-4888
FL EPM Corp Coral Springs 305-755-5387
GA Electro-Mech Atlanta 404-458-0218
ID Intermountain Technology Boise 208-322-5022
IL Janus Inc Des Plaines 312-298-9330
IN Fred Dorsey & Assoc Indpls 317-842-0600
KS J F Guernsey Inc Overland Pk 913-381-2225
MD Pro-Rep Baltimore 301-653-3600
MA Alpha & Omega Woburn 617-933-0237
MI Lowell Wendt Livonia 313-464-2722
MN Smiley Scott Assoc Minneapolis 612-888-5551
NJ Tecmimat Englewood 201-569-4200
NM ELE Com Albuq 505-898-6101
NY Empire Tech Assoc Binghamton 607-772-0651
NC Electro-Mech Raleigh 919-876-7751
OH Geotronics Cleveland 216-526-2535
OK MGR Electronics Tulsa 918-369-5186
OR Micro Labs Inc Aloha 503-642-1818
PA Denco Ambley 215-542-9876
TN Electro-Mech Nashville 615-361-8673
TX Mgr Electronics Dallas 214-349-9940
UT Parker Webster SLC 801-266-9939
VA Pro-Rep Charlottesville 804-971-9650

DISTRIBUTORS
CA B J Wolfe Assoc No Hollywood 213-877-5518
CA Power Sys Dist Milpitas 408-263-1063
FL Diecko Ft Lauderdale 305-973-8700
IL Bell Indus Chicago 312-982-9210
MD Aztech Elect Columbia 301-995-1760
MA RC Components Wilmington 617-657-4310
MI LWC Dist Inc Livonia 313-464-7700
NY Add Elect E Syracuse 315-437-0300
OH Alpha Dist Cleveland 216-526-3716
OR Bell Indus Lake Oswego 503-241-4115
PA Century Elect Comp Phila 215-631-5400
TX Norvell Electronics Dallas 214-233-0020
WA Bell Indus Bellevue 206-747-1515
WI Bell Indus Waukesha 414-547-8879
FR Kaytronics Quebec PQ 514-367-0101

COMPUTER PRODUCTS INC TECNETICS
SUB 6287 ARAPAHOE AVE BOULDER
CO 80303 TWX 910-940-3246 303-442-3837
EMP 225
For Sales Offices/Reps & Distributors See
Computer Products Inc Power Conversion Group

COMPUTER SCIENCES CORP
2100 GRAND AVE EL SEGUNDO
CA 90245 TWX 910-348-6286 213-615-0311
M COOPER EMP 15000 ENG 6500 OVER \$10,000K
MD Computer Sciences 8728 Colesville
Rd Silver Spring
VA Computer Sciences Sys Grp Box 530
Falls Church
FR Computer Sciences Can Ltd 515 Consumers
Willowdale ON

COMPUTER SOLUTIONS INC
1 BURLINGTON WOODS BURLINGTON
MA 01803 617-229-2200
J TURIN
CA Computer Solutions Newport Bch 714-756-0137
CT Computer Solutions Hartford 203-249-7291
FL Computer Solutions Tampa 813-885-8478
IL Computer Solutions Oak Brook 312-953-8525
NJ Computer Solutions South
Plainfield 201-769-0060
NY Computer Solutions Hicksville 516-933-8778
OH Computer Solutions Middleburg
Hts 216-234-0511
TX Computer Solutions Dallas 214-783-6922

COMPUTER SYSTEM ASSOC INC
7564 TRADE ST SAN DIEGO
CA 92121 TWX 333693 619-566-3911
P CHOINARD EMP 12 ENG 6 \$1,000-\$2,500K
AL EMA Huntsville 205-830-4030
AZ IM Systems Tempe 602-829-0044
AZ Morrow Educational Mesa 602-964-2205
CA Basic Systems Corp Inglewood 213-673-4300
CA Basic Systems Corp Santa Clara 408-727-1800
FL Pen-Tech Assoc Deerfield Bch 305-421-4989
GA EMA Atlanta 404-329-0530
GA Learning Labs Calhoun 404-659-8176
MD Mid-Atlantic Monrovia 301-865-5262
MN Edutec Brooklyn Center 612-533-0000
NH Occupational Training Svc Nashua 603-888-3636
NJ A B Williams Berlin 609-767-1399
NM Rlogrande Tech Sales Albuquerque 505-293-2440
NY Geater Assoc Tonawanda 716-693-4018
NY RJT Franklin Square 516-354-2983
NC EMA Greensboro 919-854-0060
OH ASCI Mktg Group Toledo 419-382-ASCI
OK TSI Tulsa 918-299-1146
PA KSI King of Prussia 215-783-6400
TN EMA Jonesboro 615-753-8861
VA Scott Data Corp Alexandria 703-765-7901

COMPUTER TALK INC 2800
S ROONEY BOX 148 MORRISON
CO 80465 303-697-5485
J FARRINGTON EMP 12 ENG 3 \$500-\$1,000K
MN Imtech 1408 Hague Av St Paul 612-646-7340

COMPUTER TERMINAL SYSTEMS INC
89 ARKAY DR HAUPPAUGE
NY 11788 TWX 291411 516-435-2916
K OLIVER EMP 170 ENG 25 \$2,500-\$5,000K

COMPUTER TRANSCIVER SYSTEMS INC
BOX 15 PARAMUS NJ 07652
TWX 5106004139 201-261-6800
L SCHOENMAKERS EMP 100 ENG 10 \$2,
500-\$5,000K

DISTRIBUTORS
GA General Electric Atlanta 404-843-6214

COMPUTERWISE INC 302 N
WINCHESTER OLATHE KS 66062 913-829-0600
W BROWN EMP 13 ENG 2 \$500-\$1,000K

COMPUTROL DIV KIDDE AUTOMATED
SYS INC 15 ETHAN ALLEN HWY
RIDGEFIELD CT 06877
TWX 643358 203-544-9371
C BREWER EMP 75 ENG 20

COMSTRON CORP 200 E SUNRISE HWY
FREEPORT NY 11520
TWX 510-225-3699 516-546-9700
S KLEIN EMP 105 ENG 15 \$5,000-\$10,000K

AL Reynolds & Assoc Huntsville 205-881-6926
AZ Odyssey 1 Phoenix 602-246-8846
CA Interstate Mktg Assoc Woodland
Hills 818-883-7606
CA Applied Systems Sunnyvale 408-773-0616
CA Blair Assoc Anaheim 714-220-1201
CO Odyssey 1 Englewood 303-773-8176
FL Reynolds & Assoc Melbourne 305-259-7000
GA Comstron Corp SE Marietta 404-442-3325
IL Dytec Central Arlington Hts 312-394-3380
IN Dytec Central Indpls 317-247-1316
KS Dytec South Lenexa 913-888-0215
MA R J Sickles Lexington 617-862-5100
MI WKM Assoc Madison Hts 313-588-2300
MI Dytec North St Paul 612-645-5816
MO Dytec South Maryland Hts 314-569-2990
NJ Scientific Devices Teaneck 201-837-1004
NM Odyssey 1 Albuquerque 505-265-6645
NC Reynolds & Assoc Raleigh 919-872-6668
OH WKM Assoc Dayton 513-434-7500
TX Beacon Dallas 214-437-1505
VA Creative Mktg Assoc McLean 703-442-9100
VA Arva-Hudson Bellevue 206-455-0773
WI Dytec Central Elm Grove 414-784-9686
FR Gigatron Assoc Ottawa ON 613-225-4090

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D.C. Power Supplies



KIN-TRONICS INC.

7 Odell Plaza, Yonkers, NY 10701
(914) 968-7736 • (800) 431-1658



COMTECH ANTENNA CORP 3100
COMMUN DR BOX 428 ST CLOUD
FL 32769 TWX 810-870-0220 305-892-6111
T CHRISTY EMP 25 ENG 2 \$2,500-\$5,000K

COM/TECH SYSTEMS INC 505
EIGHTH AVE NEW YORK NY 10018 212-594-5377
C MENGANI EMP 6 ENG 2
AZ Totalcom Data Systems Scottsdale 602-998-5000
CA Knott Engrg Santa Ana 714-838-9289
CT T H Maguire & Assoc Westport 203-226-4281
NJ Glasgal Commun Svcs Northvale 201-768-8082
NY Marex Sales Rome 315-337-0111
PA Pleasant Valley Assoc
Coopersburg 215-346-8684
FR Louis Albert Assoc Ottawa ON 613-737-5941

COMTEL CORP 2201 HOLLYWOOD WAY
BURBANK CA 91505 818-846-0770
D MAYER EMP 10 ENG 5 \$2,500-\$5,000K
CA Comtel Corp San Diego 619-292-1090
CA Comtel Corp Anaheim 714-630-4470

CONAP INC 1405 BUFFALO ST OLEAN
NY 14760 TWX 510-245-2769 716-372-9650
R SUCHORA EMP 100 ENG 12 \$5,000-\$10,000K
ADV PGS 95,329

AZ Advance Elec Sales Phoenix 602-437-1334
CA Advance Elec Sales Anaheim 714-870-0304
CA Advance Elec Sales Belmont 415-592-4550
CO Advance Elec Sales Denver 303-388-0923
CT T Blanchard Manchester 203-647-9684
GA Stonoco Assoc Macon 912-474-1655
GA G Czerney Lilburn
IL J Shinkos Pallatine 312-991-6208
NJ J Jordan East Hanover 716-372-9650
NC T Beaver Mocksville 716-372-9650
PA F Rice Meadville 814-332-6541
TX J Penninga Weatherford 817-594-1461
WA Advance Elec Sales Seattle 206-575-4323
FR T Bishop Mississauga ON 416-673-6018

CONAX BUFFALO CORP 2300
WALDEN AVE BUFFALO NY 14225
TWX 91-275 716-684-4500
G SETTER EMP 250 ENG 20

CA Qcon Inc Los Altos 415-941-5530
CO Hannah-Hill Inc Wheat Ridge 303-424-0108
DE Flow Eng Inc Flourtown Pa 215-248-1355
FL A-A Electric Lakeland 813-665-6941
GA A-A Electric Norcross 404-449-8670
IL Automation Equip Co Mt Prospect 312-398-7550
KS Barry Sales Eng Co Overland Park 913-642-0270
LA Process Msmts & Monitors
Inc Baton Rouge 504-927-9415
MD Faber-Renoff Glen Burnie 301-768-4554
MA Chas T Morgan Co Halthorne 617-774-3215
MI Robt B Turpin Co Southfield 313-559-5032
MN CT Sales Mnpls 612-374-1241
MO Barry Sales Eng Co St Louis 314-821-2525
NJ Norman Bragar Co Newark 201-344-1100
NY Niagara Electric Sales
Co Buffalo 716-886-4000
NY Niagara Elec Sales East Syracuse 315-437-1656
NC Baesel & Assoc Charlotte 704-375-1044
OH Myers & Henley Inc Cincinnati 513-772-8100
OK Barnard Equipment Co Tulsa 918-742-2652
PA M S Jacobs & Assoc Pittsburgh 412-923-2090
TN A-A Electric Nashville 615-832-6632
TX Dawson & Assoc Houston 713-644-1224
VA United Control Co Richmond 804-285-9927
WA Instrument Reps Assoc Seattle 206-762-0707
WV M S Jacobs & Assoc Charleston 304-343-8906
FR PID Instruments Woodbridge ON 416-851-8871

CONCEPT INDUSTRIES 3641
SAN GABRIEL RIVER PKWY
PICO ROVERA CA 90660
TWX 88-3123 213-699-0918

CONCORD DATA SYSTEMS INC
303 BEAR HILL RD WALTHAM
MA 02154 TWX 951793 617-890-1394
J ROTHROCK EMP 230 ENG 50 OVER \$10,000K
CA Concord Data Santa Ana 714-541-4974
CA Concord Data San Mateo 415-341-0100
CT Concord Data Bethel 203-798-9433

IL Concord Data Northbrook 312-291-0700
MA Concord Data Wakefield 617-246-5442
MI Concord Data St Claire Shores 313-777-8222

DISTRIBUTORS

CA Tredent Woodland Hills 213-704-9044
CA Peripheral Systems Van Nuys 213-902-0791
FL Redlaw Corp Ft Lauderdale 305-791-5459
FL Data Rental/Sales Clearwater 813-442-8125
MO Information Products
Independence 816-252-3700
NJ Glasgal Commun Sys Northvale 201-768-8082
NJ Datastore Cherry Hill 609-779-0200
OH Data Processing Sciences
Cleveland 216-582-0700
TX Data Aids Dallas 214-620-1551

CONCORD ELECTRONICS CORP
30 GREAT JONES ST NEW YORK
NY 10012 TWX 710-581-4930 212-777-6571
J WHEATON EMP 200 ENG 3 \$5,000-\$10,000K
ADV PGS 207,234,320,462

CONDENSER PRODUCTS CORP
BOX 997 US HWY 41 S
BROOKSVILLE FL 33512 904-796-3561
P JOHNSON EMP 32 ENG 2 \$500-\$1,000K
CA Ultratex Stanford 415-322-3242
IL Ropek-Cahill Inc Chicago 312-631-0070
NJ J L Sales Ringwood 201-962-6315
NY Land Seas Corp New York 212-265-8323

CONDITIONING SEMICONDUCTOR
DEVICES CORP BOX 2116 WAYNE
NJ 07470 TWX 219023 201-335-6723
A ZIMMERLY EMP 20 ENG 3

DISTRIBUTORS

CO Integrated Electronics Denver 303-292-6121
FL Intertec Components Longwood 305-834-7777
MA Semtex-New Eng Woburn 617-935-2466
NY Baldwin Components Ronkonkoma 800-645-5608
NY Rad-Tronics Ithaca 607-273-8026

CONDOR INC 201 FLYNN RD
CAMARILLO CA 93010
TWX 910-333-0681 805-484-2851
D ELLIS EMP 120 ENG 6 OVER \$10,000K
ADV PG 352

AL Pen-Tech Assoc Huntsville 205-381-9298
AZ O'Donnell Assoc Glendale 602-944-9542
CA Masco Elec Brea 714-529-0866
CA Nova-Tronix Santa Clara 408-727-9530
CO R2 Marketing Englewood 303-799-9292
FL Pen-Tech Assoc Casselberry 305-678-6809
GA Pen-Tech Assoc Marietta 404-424-1931
IL EPA Schaumburg 312-882-7640
IN EPA Indpls 317-894-7156
IA EPA Coralville 319-354-5344
MD Brimberg Sales Wheaton 301-946-2670
MD Daner Hayes Corp Wayland 617-655-0888
MN EPA 7625 Bush Lake Edina 612-835-9022
MN TAI Corp Bellmawr 609-933-2600
NM O'Donnell Assoc Albuquerque 505-883-1030
NY Sonkin Assoc Yonkers 914-968-8282
NC Pen-Tech Assoc Greensboro 919-852-6000
TX W Pat Fraila & Assoc Bedford 817-267-3577
UT R2 Marketing N SLC 801-595-0631
WA Al Smith Co Bellevue 206-746-6770
FR Duncan Inst 122 Millwick
Dr Toronto ON 416-742-4448

DISTRIBUTORS

CA FLW Costa Mesa 800-751-7512
CA Pyramid Elec Fullerton 714-773-0781
CA Pyramid Elec Santa Clara 408-727-9810
FL GMI Orlando 305-658-1082
IL EPA Schaumburg 312-882-7640
MD Brimberg Wheaton 301-946-2670
MI McNaughton/McKay Madison Hts 313-399-7500
MI McNaughton/McKay Ann Arbor 313-995-9515
MN EPA Edina 612-835-9022
NY Kin-Tronics Yonkers 914-968-7736
TX Allied Electronics Ft Worth 817-336-5401
TX American Analog Houston 713-941-7245
WA Al Smith Co Bellevue 206-746-2670

CONDOR PACIFIC INDUSTRIES INC
8053 DEERING AVE CANOGA PARK
CA 91304 TWX 651442 818-347-8331
EMP 40 ENG 6 \$2,500-\$5,000K

CONDUCTIVE CONTAINERS INC
425 HUEHL RD 19B NORTHBROOK
IL 60062 312-480-7887
EMP 50 ENG 3

DISTRIBUTORS

AZ Palmer Pkg Phoenix 602-253-7888
CA Biggam Entrps San Jose 408-298-6810
CA Industrial Paper Paramount 213-531-1446
CO Mack-Chi Denver Corp Golden 303-277-0606
FL Milpak Orlando 305-855-7888
MN Dynamic Minnetonka 612-535-2671
NM Eddleman Indus Albuq 505-884-0671
NY Oneida Containers Vernon 315-829-2212
NC Foam Design Raleigh 919-851-7465
OR Warren Marketing Milwaukee 503-654-7823
TX Correct Prod Richardson 214-690-6645
FR Davis & Henderson Waterloo ON 519-885-1770

CONDUCTIVE RUBBER TECHNOLOGY
1235 COAST VILLAGE RD
SANTA BARBARA CA 93108
TWX 658307 805-969-5805
H STERN

AL Alpha Marketing Huntsville 205-533-0766
CA Groh Assoc Fullerton 213-923-0993
CA Nickerson-Gray & Assoc Los Altos 415-941-5777
IL Jerry Golten Co Chicago 312-792-1991
IN Newton Assoc Noblesville 317-877-4508
MA Nova Assoc Braintree 617-848-9330
NY H C Johnson Agencies Rochester 716-586-0777
OH J D Babb & Assoc Elyria 216-323-7081
SC R A Sales Easley 803-859-1859
TX Lel Systems Richardson 214-680-9588
VA Electronic Sources
Charlottesville 804-293-4041
WA Caruso & Northcut Bellevue 206-454-9699

CONFORMING MATRIX CORP
830 NEW YORK AVE TOLEDO
OH 43611 419-729-3777
R SEBETTO EMP 35 ENG 3 \$1,000-\$2,500K

CONKLIN INSTRUMENT CORP WEST RD
PLEASANT VALLEY NY 12569
TWX 510-248-4134 914-635-2136
T DOLAN EMP 100 ENG 7 \$2,500-\$5,000K
CT Gemini Elctn Sales Norwalk 203-852-8173
NJ R J Alvarez Kinnelon 201-838-5641
OH Denman Assoc Howard 614-397-2640
WA Control Q Inc Redmond 206-881-7440

CONNECTICUT MICROCOMPUTER INC
568 DANBURY RD NEW MILFORD
CT 06776 TWX 410-6052 203-354-9395
S FLETCHER EMP 10 ENG 2 OVER \$10,000K
ADV PG 150

DISTRIBUTORS

CA Cal Tech Pro Riverside 714-682-8506
CT Marr Electric Durham 203-349-9691
MA Stickney Engrg Wakefield 617-245-4212
MI Interlink Berrien Springs 616-473-3103
PA AB Computers Colmar 215-822-7727
PA Wyncote Instr Co Glenside 215-572-6500
FR Batteries Included Toronto ON 416-596-1405
FR Conspec Communications
Downsview ON 416-746-2070
FR Conti Electronics Vancouver BC 604-324-0505
FR Interactive Computer Fredrickton
NB 506-454-7691

CONNECTICUT MICROWAVE CORP
106 POWDER MILL RD, BOX 389
CANTON CT 06019 203-693-4247
S URBANK EMP 12 ENG 2

CONNECTOR CORP 6025 N KEYSTONE
AVE CHICAGO IL 60646
TWX 910-221 6059 312-539-3108
ADV PG 125

CONNECTOR INDUS OF AMER
DIV MICRODOT 639 N WAYNE AVE
CINCINNATI OH 45215 513-733-3680
K NEAL EMP 35 ENG 2 \$1,000-\$2,500K

CONNECTOR SYSTEMS DIV BIW
500 TESCONI CIR SANTA ROSA
CA 95401 TWX 33-0457 707-523-2300
T SHOEMAKER EMP 130 ENG 5 \$5,000-\$10,000K
CA J Baggesen Marin 415-381-2004
NY J Mark New York 212-724-8075
OH F Gunther Chagrin Falls 216-247-5823
PA J Hunter Philadelphia 215-342-0888
TX J Zackson Woodlands 409-273-3636
FR Boston Insul Wire & Cable
Ltd Hamilton, ON 416-529-7151

CONNECTRON INC 12 INDUSTRIAL DR
LAURENCE HARBOR NJ 08879 201-583-3000
T SCHMIDT EMP 105 ENG 7 \$5,000-\$10,000K

DISTRIBUTORS

CA Steven Engineering San Francisco 415-583-5868
CA Control Design Sply Buena Park 213-802-1371
CO Wesco Elec Supply Co Denver 303-573-7550
CT Hartford Electric Hartford 203-233-3694
FL AA Electric Lakeland 813-682-6181
GA Westinghouse Elec Sply Atlanta 404-524-0330
IL Control Design Supply Co Genoa 312-882-7232
IN Control Supply Co Indpls 317-849-4945
KS Allen Electric Wichita 316-262-3541
LA Motors & Controls Inc Kenner 504-467-8986
ME Gilman Electric Supply Newport 207-368-4306

MD	I/O Elec Supply Owings Mills.....	215-825-4610
MA	Standard Elect Supply Waltham.....	617-890-1050
MI	Don Blackburn Co Livonia.....	313-261-9100
MI	Control Design Supply Co Mpls.....	612-721-1628
MI	Control Design Sply St Louis.....	314-426-3150
NE	Loose Elec Supply Scottsbluff.....	308-635-3107
NE	Gilman Elec Supply Portsmouth.....	603-436-2236
NJ	Apparatus Elect Supply.....	
	Greenbrook.....	201-752-8400
NY	Salmon Motor Repair Syracuse.....	315-454-9278
NY	Washburn Electric Buffalo.....	716-675-3820
NC	Industrial Electronics Greensboro.....	919-275-9113
OH	Cartessa Corp, Cincinnati.....	513-522-3100
OK	Combined Technology Inc Pryor.....	918-825-5717
OR	Taylor Elec Sply Conshohocken.....	503-233-5321
PA	I/O Elec Supply Conshohocken.....	215-825-4610
RI	Major Elec Supply Pawtucket.....	401-724-7100
SC	Holder Elec Supply Greenville.....	803-271-7111
TN	Withers Supply Chattanooga.....	615-894-4697
TX	Houston Elec Supply Houston.....	713-224-4771
VA	A E Foster Elec Supply Lynchburg.....	804-528-4100
WA	Debenham Elec Supply Seattle.....	800-426-4763
WI	General Elec Supply Co Milwaukee.....	414-462-4800
FR	Zerick Prods of Canada.....	
	Concord, ON.....	416-669-1429
FR	Interlek Corp St Just, PR.....	

CONNOR-WINFIELD CORP 114	
W WASHINGTON, BOX L WEST	
CHICAGO IL 60185 TWX 270244	312-231-5270
EMP 35 ENG 4 \$500-\$1,000K	
CA Frauman Assoc Los Altos.....	415-941-0660
CA C D H Assoc Agoura Hills.....	818-707-1970

CONRAC DIV CONRAC CORP	
800 N RIMSDALE AVE COVINA	
CA 91722 TWX 67-0437.....	818-966-3511
R CARLSON EMP 500 ENG 50 OVER \$10,000K	

CONSELL 463 PAYNE DR CHESHIRE	
CT 06410.....	203-272-5750
A AIKMAN EMP 5 ENG 2 UP TO \$100K	

CONSOLIDATED CONTROLS CORP	
15 DURANT AVE BETHEL	
CT 06801 TWX 710-456-0446.....	203-743-6721
J ENGELBERGER EMP 910 ENG 81 OVER \$10,000K	

CONSOLIDATED ELECTRONIC	
WIRE & CABLE CORP 11044	
KING ST FRANKLIN PARK	
IL 60131-1412 TWX 910-227-1705.....	312-455-8830
M BRADEN EMP 129 ENG 11	
ADV PG 55	

AL	Hollingsworth & Still Mobile.....	205-344-1641
CA	Mollard Mktg Palo Alto.....	415-961-0456
CA	W H Daugherty Inc Simi Valley.....	213-622-2849
CO	Frontier Rep Inc Englewood.....	303-799-6063
CO	Candall Inc Golden.....	303-233-0155
GA	Hollingsworth & Still Norcross.....	404-447-1700
IL	Bransky Sales Co Highland Pk.....	312-433-2375
IN	Consolidated Electn W & C.....	Toll Free 800-455-8830
IN	EMCI Indpls.....	317-253-1668
IA	R W Kunz Co Cedar Rapids.....	319-396-5386
KS	R W Kunz Co Prairie Village.....	913-648-3535
LA	Electrical Tech Sales Kenner.....	504-469-2753
MD	Forti Assoc Kensington.....	301-949-1707
MI	Burcaw Co & Assoc Warren.....	313-573-4605
MO	R W Kunz Co St Louis.....	314-966-4977
NJ	Harold Gray Assoc Englewood.....	201-894-0894
NY	NRM Mktg Group Buffalo.....	716-634-4300
NY	Hollingsworth & Still.....	
	Kernersville.....	919-996-4622
OH	KW Elect Sales Dayton.....	513-890-2150
OH	K W Elect Sales Shaker Heights.....	216-481-9177
OR	Contec Int Milwaukee.....	503-654-6626
PA	K W Elect Sales Allison Pk.....	412-487-4300
PA	S K MacDonald Inc Phila.....	215-545-1205
SC	Hollingsworth & Still Tega Cay.....	803-548-2628
TX	Nesbitt Co Dallas.....	214-357-4601
UT	Meridian West SLC.....	801-968-4177
VA	Forti Assoc Vinton.....	703-345-2505
WA	Contec Int Bellevue.....	206-453-1189
WI	Bransky Sales Cedarburg.....	414-377-6837

DISTRIBUTORS		
CA	Marvac Electronics Costa Mesa.....	714-540-3280
CA	Darline Elect North Hollywood.....	818-766-3728
CA	AB Electronics San Jose.....	408-263-3011
CA	Pacific Valley Electronics.....	
	Concord.....	415-682-4700
CA	HDB Electronics Redwood City.....	415-368-1388
CA	R & D Elect Milpitas.....	408-262-7144
FL	B & R Elect Supply Miami.....	305-255-4510
FL	Central Elect Sply Panama City.....	305-785-0237
GA	Wholesale Indus Elect Atlanta.....	800-282-1857
IL	Hawk Electronics Wheeling.....	312-459-4030
IN	Mar Electronics Indpls.....	317-875-4510
IA	Deeco Inc Cedar Rapids.....	319-365-7551
KY	Crescent Electronics Bowling.....	
	Green.....	502-842-2444

KY	URI Electronics Florence.....	606-371-4423
LA	AFG Electronics Harvey.....	504-368-9696
LA	Pelican Elect Metairie.....	504-888-4720
MD	Pioneer Tech Group Gaithersburg.....	301-921-0660
MD	MS Electronics Gaithersburg.....	301-921-0200
MD	Electronic Comp Sales Baltimore.....	301-358-1900
MI	S-F Elect Supply Grand Rapids.....	616-459-0216
MI	Michigan Electronics Flint.....	313-232-6550
MI	LWC Dist Livonia.....	313-464-7700
MN	Northern Inc Edina.....	612-944-1167
MS	Hooper Electronics Meridian.....	601-693-2668
MO	Deltronics St Louis.....	314-725-6060
NJ	Freedom Electronics Red Bank.....	201-747-4666
NM	Walker Elect Supply Albuquerque.....	505-883-2992
NY	Key Components Inc Bohemia.....	516-567-7500
NY	Goldcrest Electronics Rochester.....	716-546-8464
NY	Key Components Bohemia.....	516-567-7500
NY	Goldcrest Elect Buffalo.....	716-885-5878
NC	Slayton Electronics Charlotte.....	704-375-6600

NC	Brantley Elect Sply Fayetteville.....	919-868-8038
OH	URI Electronics Cincinnati.....	513-761-4030
OH	Astro Industries Dayton.....	800-543-9100
OH	Repro Electronics Solon.....	216-248-8900
OH	Schuster Electric Cincinnati.....	513-489-1400
OR	Acacia Sales Inc Beaverton.....	617-745-7878
OR	Norvac Electronics Beaverton.....	503-644-1025
OR	Portland Radio Supply Portland.....	503-228-8647
PA	PEI/Genesis Phila.....	215-568-7400
PA	Tri-Com Inc Essington.....	215-521-3080
PA	Lehigh Electronics Allentown.....	215-433-3045
SC	Wholesale Industrial Elect.....	
	Charleston.....	803-722-2634
SC	Southern Electronics Florence.....	803-662-1445
TN	Industrial Electronic Dist.....	
	Chattanooga.....	615-698-3413
TN	Industrial Electronics Knoxville.....	615-573-7135
TX	OHM Electronics Carrollton.....	214-620-2230
TX	Swico Inc Ft Worth.....	817-335-6521
TX	Carden Industrial Electronics.....	
	Brownsville.....	512-541-3660
UT	Standard Supply SLC.....	801-486-3371
VA	Norfolk Wire & Cable Virginia.....	
	Bch.....	804-499-1100
WA	Radar Electric Co Seattle.....	206-282-2511
WA	West-Air Int Auburn.....	206-631-1000
WI	Applenton Supply Co Applenton.....	414-734-5767
WI	Electronic Industries Oshkosh.....	414-235-8930

CONSOLIDATED RESISTANCE	
CO OF AMERICA INC 222 LAKE AVE	
YONKERS NY 10701.....	914-963-5900
J WILENTCHIK EMP 30 ENG 1 \$500-\$1,000K	

CONSULTRONICS LTD 160 DRUMLIN		
CIR CONCORD ON L4K 279		
	TXW 499-6695.....	416-738-3741
H RICHARDS EMP 35 ENG 7 \$1,000-\$2,500K		
CA	Wandel & Gontermann Granada	
	Hills.....	818-360-2278
GA	Wandel & Gontermann Tucker.....	404-493-8818
IL	Wandel & Gontermann Willow Brook.....	312-655-9242
NJ	Wandel & Gontermann Livingston.....	201-994-0854
NC	Wandel & Gontermann Research	
	Triangle PK.....	919-544-5730
FR	R-O-R Assoc Ltd Scarborough ON.....	416-291-7121
FR	R-O-R Assoc Ltd Montreal PQ.....	514-482-8430
FR	R-O-R Assoc Ltd Burnaby BC.....	604-430-6447
FR	R-O-R Assoc Ltd Ottawa ON.....	613-225-7646
FR	Datasphere Sales Ltd Mississauga	
	ON.....	416-278-5501
FR	Datasphere Sales Ltd Regina SK.....	306-565-0421
FR	Datasphere Sales Ltd Calgary AB.....	403-244-3666
FR	Datasphere Sales Ltd Dorval PQ.....	514-631-7209
FR	Datasphere Sales Ltd Burnaby BC.....	604-420-6040

CONTACT ELECTRONICS INC		
30 PLYMOUTH ST BOX 623		
FAIRFIELD NJ 07006		
TXW	130-216.....	201-575-7660
EMP 75 ENG 3		
CA	Contact Electronics.....	408-988-5400
CA	Tri-Electro Sales Simi Valley.....	805-583-5124
CT	JMG Mystic.....	203-699-5373
FL	Over & Over Orlando.....	305-857-4057
GA	Over & Over Norcross.....	404-449-6205
IL	Magnuson Assoc Mt Prospect.....	312-956-0700
MA	JMG Inc Norwood.....	617-762-5333
NJ	Contact Electronics.....	800-221-1451
NC	Over & Over Charlotte.....	704-527-3070
OR	Components West.....	503-684-1671
PA	Sunday-O'Brien Haddonfield NJ.....	609-429-3787
TN	Over & Over Autioch.....	615-834-0140
TX	Blackburn Assoc Dallas.....	214-692-8885
FR	Tech-Rep Elctns Ltd Montreal PQ.....	514-337-6046
FR	Tech-Rep Elctns Ltd Ottawa ON.....	613-225-9196

DISTRIBUTORS		
AZ	Waltronics Sales Tempe.....	602-967-1020
CA	Waltronics Sales Santa Clara.....	408-727-1200
CA	Force Electronics Inglewood.....	213-776-1324
CA	Force Electronics San Jose.....	408-943-1324
CA	Force Electronics San Diego.....	619-569-9661
FL	Electronic Equip Co Miami.....	305-871-3500
IL	Magnuson Electronics Mt Prospect.....	312-956-0700
MD	Applied Specialties Beltsville.....	301-792-2211
MD	Digital Systems Frederick.....	301-694-9355
MA	Glynn Electronics Middleboro.....	617-947-4262
MA	J V Elect of Boston Wilmington.....	617-273-4300
NJ	GCI Berlin.....	609-768-6767
NJ	State Electronics Hanover.....	201-887-2550
NY	Addem Dist Farmingdale.....	516-752-9303
NY	Goldcrest Electronics Rochester.....	716-546-8464
OH	Allen Nace Co Englewood.....	513-836-0931
OR	Moore Electronics Lake Oswego.....	503-684-3100
TX	Force Electronics Dallas.....	214-247-9955
VA	Arcade Electronics Annandale.....	703-256-5610

CONTACT SYSTEMS INC MIRY	
BROOK RD DANBURY CT 06810	
TXW 710-456-7611.....	203-743-3837
J POMPEA EMP 80 ENG 10 \$2,500-\$5,000K	

CONTINENTAL CONNECTOR CORP	
34-63 56TH ST BOX 879	
WOODSIDE NY 11377	
TXW 710-582-2565.....	718-899-4422
EMP 600 ENG 10 OVER \$10,000K	
ADV PGS 119,120	

CA	Continental Connector Corp LA.....	213-649-2404
CA	Continental Connector Corp.....	
	Los Altos.....	415-948-0211
FL	Electronic Hdwe for Ind Largo.....	813-584-5599
FR	Ultra Elctns GmbH Seeshaupter.....	
	Sir 67 St Heinrich W Ger.....	089-64-08-84
FR	Dowty Electronics Interconnect Fassets.....	
	Rd Bucks GB.....	
FR	Nijerk Elektronika BV Box.....	
	7920 Amsterdam.....	020-428933
FR	Eagle Electric Co Capetown.....	45-1421

FR	Ultra Elctns AB Sundbyberg.....	08/29-0255
FR	Indian Precision Engrs Bangalore.....	 63212
FR	Teisys Ltd 12 Kehilat Venetsia St.....	
	Tel-Aviv Israel.....	

DISTRIBUTORS		
CA	Access Electronics Palo Alto.....	415-493-3133
IL	Stranco Prods Chicago.....	312-829-5175
MA	Vantage Elect Waltham.....	617-894-8690
FR	Indurmark Hato Rey PR.....	809-780-2825

CONTINENTAL ELECTRONICS		
DIV VARIAN ASSOC BOX 270879		
DALLAS TX 75227 TWX 73-398.....		214-381-7161
V COLLINS EMP 430 ENG 45		

CONTINENTAL INDUSTRIES INC		
5456 E MCDOWELL RD MESA		
AZ	85205.....	602-985-7800
J WILLIAMS EMP 25 ENG 1		
AZ	H-D Assoc Phoenix	602-437-0064
CA	Hickey Ind Sales Redwood City.....	415-368-3849
CO	Dynatech Inc Englewood.....	303-773-2830
CT	Isdale Assoc Orange.....	203-389-8583
FL	EDSI Rockledge	305-631-8630
GA	Skor Inc Doraville.....	404-395-9641
IL	PMC Control Sales St Charles	312-377-6566
IN	Augnat Assoc Ft Wayne.....	219-483-0259
MA	Dynasel Assoc Waltham.....	617-890-6777
MN	Ten Tech Shoreview.....	612-481-0274
MS	Doby Assoc Jackson.....	601-981-1138
NY	Electra Sales Syracuse.....	315-463-1245
OH	Augnat Assoc Akron.....	216-535-4396
PA	DVS Co Washington Crossing.....	215-493-4642
TX	Kite Electronics Irving.....	214-438-9336

DISTRIBUTORS		
AZ	R V Weatherford Phoenix.....	602-272-7144
CA	HDB Elect Redwood City.....	415-368-1388
CA	S A I Manhattan Bch.....	213-376-0861
CO	Consolidated Parts Denver.....	303-428-6900
FL	AA Electric Lakeland.....	813-665-6941
FL	S A I Altamonte Springs.....	305-831-6201
GA	Frankland Inc Fayetteville.....	404-461-4026
IL	Advent Electronics Rosemont.....	312-297-6200
IN	MAR Electronics Indpls.....	317-875-4510
IA	Bergquist Co Cedar Rapids.....	319-366-8733
KS	Kornfeld Thorp Kansas City.....	913-321-7070
LA	Ralph's Ind Elec Baton Rouge.....	504-344-3761
LA	Industrial Elect Sply Shreveport.....	318-222-9459
MA	Now Electronics Framingham.....	617-872-5876
MI	Calder Elect Grand Rapids.....	616-698-7400
MN	Bergquist Co Mpls.....	612-835-2322
NJ	Howman Controls Edison.....	201-985-7474
NY	S A I Farmingdale.....	516-293-2710
NY	K R P Freeport.....	516-623-3346
NC	JMT Electronics Gastonia.....	704-867-4401
OH	Richards Elec Sply Cincinnati.....	513-242-8800
OH	Specialized Components Cleveland.....	216-464-0405
OH	Wedemeyer Elec Sply Columbus.....	614-436-9600
OR	DO Controls Portland.....	503-231-8058
PA	Rem Electric Sply Erie.....	814-453-5626
PA	Stanton Ind Elec Pittsburgh.....	412-242-9300
TX	Industrial Elect Inc Ft Worth.....	817-731-7321
TX	Ralph's Ind Elect Beaumont.....	713-833-9443
VT	S A I Rutland.....	802-775-7126
WA	R V Weatherford Seattle.....	206-575-1340
WI	AA Electric Cedarburg.....	414-377-7500

CONTINENTAL INSTRUMENTS CORP		
70 HOPPER ST WESTBURY		
NY 11590.....		516-334-0900
M MORGENTERN		
CA	Jackson & Assoc Santa Fe Springs.....	213-692-9339
FL	Gwynn Mktg Svcs Clearwater.....	813-536-8422
IN	Kingston Sales Corp Indpls.....	317-876-2545
MD	Logan Merriam & Assoc Rockville.....	301-493-5154
NY	T E Davidson & Assoc Camillus.....	315-487-6871
NY	Langbaum Assoc New City.....	914-634-1141
NC	Everett Dukes Assoc Charlotte.....	704-596-6050
PA	Langbaum Assoc Colwyn.....	215-461-1164
TX	Houston Assoc Fort Worth.....	817-236-1717
WA	Mrs Agents Rep Seattle.....	206-575-1798
FR	Hart Door Control Svc Ltd.....	
	Calgary AB.....	403-258-1211
FR	Madison Prods Co Ltd LaSalle PQ.....	514-365-0050

CONTINENTAL MICROWAVE &		
TOOL CO INC 32-40 MIDDLESEX ST		
BRADFORD MA 01830		
TXW 710-347-1123.....		617-373-2390
D WALL EMP 76 ENG 6		
CA	Allis Assoc Cupertino.....	408-252-2883
CA	Foxfire Microwave Toluca Lake.....	213-508-0822
CT	MacArthur Hamden.....	203-281-5847
FL	Brennan Assoc Clearwater.....	813-446-5006
MD	New Era Sales Severna Park.....	301-544-4100
MA	Microwave Component Mktg Woburn.....	617-273-3106
NJ	F & M Sales Glen Gardner.....	201-832-7216
TX	N & W Sales Arlington.....	817-461-4445

CONTINENTAL PRECISION STAMPING

CONTINENTAL WIRE & CABLE
BOX 1863 W YORK IND PK YORK
PA 17405 TWX 84-0437 717-792-2644
B DRUCK EMP 250 ENG 20 OVER \$10,000K

CO Barry Cable & Equip Wheat Ridge 303-422-8075
GA Brown & Lucas Co Norcross 404-447-4370
HI J Kenny Pleasanton CA 415-462-9373
IL Snyder Sales Co Hinsdale 312-323-9191
KS Lynn Elliott Co Mission 913-722-6500
KY Phillips Sales Louisville 502-587-6866
MI Bradley Electro-Sales Columbia 301-995-1820
MD Robt M Gardner Co Detroit 313-531-1658
NE Lee-Nonan Co Minnetonka 612-938-1112
NY Perry & Assoc Omaha 402-334-5250
NY Lachut Elect Sales N Syracuse 315-458-6486
NY Burgoyne Elec Sales Edison NJ 212-285-9486
OH Gamble Sales Charlotte 704-377-3489
OH R C Childs Westfield Ctr 412-884-1008
PA Ransford Co Pittsburgh 412-884-3425
SC Gamble Sales Greer 803-268-0167
TN Schubert Sales Agency Chattanooga 615-894-4556
TX Lynn Elliott Co Missouri City 713-499-1571
WI J F Nolan & Assoc Butler 414-781-1140
FR AFI Electronic Montreal PQ 514-739-2287

CONTROL CORP 1150 W EVELYN AVE
SUNNYVALE CA 94086
TWX 4942099 408-738-3777
J BOISSICAT EMP 20 ENG 2 \$1,000-\$2,500K

CONTROL AUTOMATION INC BOX 2304
PRINCETON NJ 08540 TWX 178102 609-799-6026
S JONES
NY Universal Instr Binghamton 607-775-1102

CONTROL CONCEPTS CORP BOX 1380
BINGHAMTON NY 13902
TWX 62224380 607-724-2484
K FISCHTHAL EMP 50 ENG 5 \$1,000-\$2,500K

AL Saber Assoc Huntsville 800-327-0853
AZ Power Specialist Scottsdale 602-996-4100
CA AULT Assoc Redwood City 415-367-1710
CA Power Specialist Los Alamitos 213-594-9418
CT OEM Mktg & Sales Guilford 203-453-5424
FL Saber Assoc Melbourne 305-724-0920
GA Saber Assoc Lawrenceville 800-327-0853
IL Loren Green Assoc Elk Grove Vlg 312-593-0280
IN Domino Fort Wayne 219-456-5512
MA OEM Mktg & Sales Franklin 617-528-4983
MI Electro Sales Assoc Livonia 313-474-7320
MN Holmgren Assoc Springlake Park 612-786-7641
MO Control Systems Design Manchester 314-227-7647
NH OEM Mktg & Sales Salem 603-893-0009
NJ Eastern Scien Mktg Vincentown 609-268-0250
NY Jarms Elect Indus Melville 516-752-0404
NY Tae-Rep Inc Whitney Point 607-692-3705
NC Saber Assoc Clayton 800-327-0853
OH Electro Sales Assoc Dayton 513-426-5551
OK Data Aids Okla City 405-478-0500
OR SPS Electronics Portland 503-297-6919
PA Eastern Scientific Marketing Chalfont 215-822-6503
SC Saber Assoc Columbia 800-327-0853
TX Data Aids The Woodlands 713-363-3838
WA SPS Electronics Seattle 206-232-4140
WI Stapelman Corp Glendale 414-353-5777
FR Norgay Enterprises Toronto ON 416-239-3025

DISTRIBUTORS

CA Power Specialists Los Alamitos 213-594-9418
OR Dunn Electronics Portland 503-285-0214
WA Motors & Controls Corp Kent 206-251-5444

CONTROL ELECTRONICS CO INC
107 ALLEN BLVD FARMINGDALE
NY 11735 516-694-0125
H GOLDSTEIN EMP 55 ENG 5 \$2,500-\$5,000K

CA R T Assoc Sherman Oaks 213-536-2230
FL VPI Melbourne 305-727-3305
IL Electro-Tech Mktg Assoc Lincolnwood 312-676-3151
MD VPI Baltimore 301-465-4065
PA VPI No Wales 215-474-3200
FR EMEC Inc Hallandale Fla 305-925-6366

CONTROLLED ENVIRONMENT EQUIPMENT
CORP 3 DELTA DR WESTBROOK
ME 04092 207-854-9126
M PECK EMP 5 ENG 1 \$250-\$500K

CONTROLLED POWER CO 1955
STEPHENSON HWY TROY MI 48083
TWX 810-232-3401 313-528-3700
B CARNEVALE EMP 100 ENG 12 \$5,000-\$10,000K

CONTROLONICS CORP 5 LYBERRY WAY
WESTFORD MA 01886
TWX 710-347-0661 617-692-3000
B HATCHER EMP 500 ENG 9
CA Bassett Sales Corp N Hollywood 213-877-7129
CO K-C Markets Denver 303-733-5561
GA DBJ Enterprises Atlanta 404-998-9755

IL Brainard-Wilson Mktg Inc Arlington Hts 312-437-2700
IN NEW/ERA Sales Carmel 317-844-4530
KS Maury E Battis Co Olathe 913-764-0621
MA Montague-Murray N Scituate 617-546-5505
MI Central Elctns Sales Royal Oak 312-589-2266
MN Clothier-Herold Co Eden Prairie 612-944-1121
MO Maury E Battis Co St Louis 314-299-2099
NJ Baum & Epstein Inc Englewood 201-569-7600
NY L D Allen Inc Syracuse 315-437-8387
OH Bear Marketing Richfield 216-659-3131
OK Bob Gunn Assoc Okla City 405-721-9400
OR Earl & Brown Co Portland 503-245-2283
PA Stinson Assoc Wynnewood 215-896-7378
TX Bob Gunn Assoc Carrollton 214-733-1222
WA Earl & Brown Co Seattle 206-284-1121
WI Brainard-Wilson Mktg Inc Waukesha 414-547-2285

CONTROL OTRON CORP 155 PLANT AVE
HAUPPAUGE NY 11788
TWX 961-447 516-231-3600
T WINICK EMP 100 ENG 10 \$5,000-\$10,000K

AZ Kachina Controls Tucson 602-886-4984
CA OCON Inc Los Altos 415-941-5530
CA RPS Industries Sante Fe Springs 213-921-7200
CO Tech Sales Englewood 303-761-9710
CT Process & Energy Msmts Danbury 203-977-1886
FL Dataprep Inc Orlando 305-843-5224
IL Lize Industrial Sales Des Plaines 312-297-4032
IA Universal Precision Inst Davenport 319-326-5757
KY Chemical Plant Equip Louisville 502-423-7100
LA Barrett & Assoc Baton Rouge 504-292-4012
MA Process & Energy Msmts Boston 617-742-6151
MI D T Randall & Assoc Royal Oak 313-546-5706
MN L C McCabe Equip Eden Prairie 612-934-4463
NY Donald Schwartz Inc Buffalo 716-877-0400
NC M C Schroeder Co Charlotte 704-394-6171
OH Chemical Plant Equip Cincinnati 513-772-9600
PA Briggs Cooper Controls W Chester 215-399-0388
TN L E Dotts Assoc Farragut 615-966-1391
TX Tom Lindsey & Assoc Midland 915-687-1567
UT Tech Sales of Utah SLC 801-532-2781
WA Unit Process Co Kirkland 206-827-0433

CONTROL PRODUCTS INC 280
RIDGEDALE AVE EAST HANOVER
NJ 07936 201-887-9400
J NILE EMP 65 ENG 5 \$2,500-\$5,000K

AZ Service & Sales Tempe 602-968-9084
CA Porter Co Chatsworth 818-700-0808
FL MacKay Smith & Assoc Orlando 305-423-4353
MI J L Montgomery Co Southfield 313-358-2616
MN Mark Co Mpls 612-920-6280
PA Providence Mktg Assoc Audubon 215-630-0629
TX Hollifield Entrys Lake Kiowa 817-668-7773
VA Strayton Assoc Mt Airy 301-831-7007

CONTROL SCIENCES INC 9509
VASSAR AVE CHATSWORTH
CA 91311 818-709-5510
R ZIMMERMAN EMP 14 ENG 3 \$1,000-\$2,500K

AL Hughes Assoc Huntsville 205-533-9108
AZ Trembly Assoc Tempe 602-967-2058
CO Trembly Assoc Wheat Ridge 303-421-8900
FL Hughes Assoc Pensacola 904-433-1787
GA Hughes Assoc Atlanta 404-662-1587
IL KMA Sales Rolling Meadows 312-398-5300
IN J & B Engrg Ft Wayne 219-483-2813
KS PEM Sales Peculiar 616-884-4784
MA Electro Kinetics Wellesley 617-235-9415
MN North Star Controls St Paul 612-770-5311
MS Hughes Assoc Corinth 601-287-2915
MO PEM Sales St Louis 314-427-7200
NV Trembly Assoc Las Vegas 702-739-9770
NM Trembly Assoc Albuquerque 505-266-8616
NY A & D Devices E Rochester 716-924-9171
NC Hughes Assoc Cary 919-467-7029
OH Geotronics Cleveland 216-526-2535
PA Homersmith Media 215-543-2434
TN Hughes Assoc Nashville 615-871-0908
TX McDonald Assoc Dallas 214-238-1858
UT Trembly Assoc SLC 801-486-5292
VA Homersmith Assoc Media 215-543-2434
WA Poggi Assoc Bellevue 206-454-2026
WI KMA Sales Inc Milwaukee 414-259-1771

CONTROL TECHNOLOGY CO INC
41-16 29TH ST LONG ISLAND
CITY NY 11101 718-361-2133
H COOPER EMP 38 ENG 5 \$1,000-\$2,500K
ADV PGS 21,416

CA W Roth & Assoc Box 507 Claremont 714-621-1019
FR CTC Canada Ltd St Laurent PQ 514-733-3279
FR S Ginsbury UK Ltd Rochester Kent UK 0634 72484

CONTROL TECHNOLOGY CORP
25 SOUTH ST HOPKINTON
MA 01748 TWX 955-329 617-435-9595
P NUNZIATA EMP 30 ENG 4 \$1,000-\$2,500K
TX Air Drecto Houston 713-681-4601

DISTRIBUTORS

AZ Wisco Equipment Co Phoenix 602-243-4361
CA Bay Pneumatics Redwood City 415-365-1444
CA Clayton Controls Costa Mesa 714-556-9446
CO Warren Fluid Power Denver 303-936-8400
IL Flodyne Inc Elk Grove Vlg 312-595-5454
MA Air Inc Wellesley Hills 617-237-9590
NJ Knotts Co Berkeley Hts 201-464-4800
NY Hi Tech Power & Controls Clarence Center 716-741-2854
NC Livingston & Haven Charlotte 704-588-3670
OH Fluidmotion Products North Canton 216-494-0498
OR Northwest Pneumatics Portland 503-620-5670
WA B-W Controls Seattle 206-575-1416

CONTROL TECHNOLOGY DIV AIRBORN
ELECT CORP 1881 STATE ST
GARLAND TX 75042 214-272-5544
R LEE EMP 100 ENG 10 OVER \$10,000K

CONTROLTEK INC 14201 NW
SCIENCE PK DR PORTLAND
OR 97229 503-641-0876
G FAGG EMP 21 ENG 2 \$500-\$1,000K
NY Optimized Elctns Mamaroneck 914-698-6330
WA Controltek Sales Ltd Seattle 206-467-0622

CONVER CORP 10629 BANDLEY DR
CUPERTINO CA 95014
TWX 910-338-2036 408-255-0151
K CLENDENING EMP 70 ENG 14 OVER \$10,000K
CA Groh Assoc Fullerton 213-923-0963
CA G T A Santa Clara 408-244-2200
MA Dynamic Sales Burlington 617-272-5676
MN DeBack Hayes Assoc Edina 612-835-3610
TX G W Products Plano 214-422-1746
FR Vitel Elec Montreal PQ 514-331-7393

DISTRIBUTORS

CA Cypress Electronics San Jose 408-945-8400
CA Cypress Electronics Torrance 213-533-8005
TX Cypress Electronics Dallas 214-869-1435
FR RAE Ind Elect Burnaby BC 604-291-8866
FR RAE Ind Elect Edmonton AB 403-451-4001

CONVERGENT TECHNOLOGIES
30 E PLUMERIA DR SAN JOSE
CA 95134 TWX 176-825 408-945-8877
D MEISE EMP 1800 ENG 300 OVER \$10,000K

CONVERSATIONAL VOICE TECHNOLOGIES
CORP 4205 GROVE AVE GURNEE
IL 60031 TWX 312 249 1960 312-249-5560
R MORGAN EMP 25 ENG 4 \$1,000-\$2,500K

CA CVTC San Francisco 415-621-0773
DC CVTC Washington 703-734-0392
GA CVTC Atlanta 404-873-1120
IL CVTC Chicago 312-249-5560
NY CVTC New York 212-772-0506
TX CVTC Dallas 214-641-6689

CONVERTER CONCEPTS INC
INDUSTRIAL PKWY PARDEEVILLE
WI 53954 TWX 910-280-2630 608-429-2144
D GILBERTSON EMP 130 ENG 10 \$5,000-\$10,000K

AL JWL Assoc 205-883-1712
CA Pacific Marketing 415-887-1620
CA Thorson Co 213-595-0361
FL Perrott Assoc 305-298-7748
GA JWL Assoc 404-429-8015
IL KMA Sales 312-398-5300
MA Wayland Eng Sales 617-655-6080
MN JMI 612-861-3343
NM Thor Engineering 602-437-1463
NY Pi-Tronics 315-455-7346
NC JWL Assoc 704-541-5750
OH Bradcor Electronics Co 216-261-0888
PA Koebert Assoc 215-887-2310
TX Tesco 214-681-1376
WA Power Sources Unltd 206-784-3336
WI KMA Sales 414-259-1771
FR Electro-Source Inc 416-675-4490
FR Davetek Marketing 604-430-3680

CONVEX CORP BOX 17225 DULLES
INTL AIRPORT WASHINGTON
DC 20041 TWX 710-833-0958 703-661-8900
D ENTLICH EMP 33 ENG 6 \$2,500-\$5,000K

AL Mid South Data Birmingham 205-942-2453
CA Pacific Data Com Long Beach 213-494-2121
CO Data Com Eng Boulder 303-431-2233
CA David Brown Assoc Stone Mountain 404-498-2800
IL Reshal Assoc Schaumburg 312-397-9010
MD Commart Inc Edgewater 301-261-4344
MI Dataloop Brighton 313-231-2001
MN Seattle Data Eden Prairie 612-941-8221
MO Information Products Independence 816-252-3700
NH Concord Comm Assoc Concord 603-228-8627
NJ Data Net Inc Englewood 201-569-2353
OH GTEC Aurora 216-562-9872
RI Seattle Data Seattle 206-575-8123

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TX	Haskell Gray Assoc Dallas	214-231-1762
UT	Robco North Salt Lake	801-292-6666
UT	Twiss Albert Assoc Ottawa ON	613-737-5941
COOPER VACUUM PRODUCTS INC		
13 MERRITT ST SOUTH NORWALK		
CT 06854		
203-853-9500		
L GENUARIO EMP 47 ENG 4 \$1,000-\$2,500K		
CA	Micro Tec West Santa Ana	714-547-5941
CA	Crossley Assoc Atlanta	404-261-4278
CA	Physics Equipment Downers Grove	312-960-4054
CA	Advent Assoc Chicago	312-583-7979
MA	NGS Assoc Canton	617-821-0690
MO	Adephi Inc St Louis	314-821-1232
NY	Emp-Tec Clifton Park	518-371-2480
TX	THT Sales Co Richardson	214-783-1501
TX	Capitol Research Equip Fairfax	703-573-1600
WA	Penryn Inc Seattle	206-782-8879

COOPER WIRE CO 9186 INDEPENDENCE		
AVE CHATSWORTH CA 91311		
TWX 353-734		
818-882-8311		

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LEXINGTON SC 29072		
803-359-1200		
G SIMMONS OVER \$10,000K		

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CT 06101 TWX 99328		
203-249-8471		
A JAMIESON EMP 1200		

AL	Hollingsworth & Still Mobile	404-447-1700
AZ	Elec-Com Assoc Tempe	602-967-8643
CA	Arrow Hart Cerritos	213-588-5251
CA	Arrow Hart Fountain Valley	714-964-2758
CA	Wescor Arvada	303-422-7619
CA	Arrow Hart Hartford	203-247-7770
CA	Hollingsworth & Still Ft	
CA	Lauderdale	404-447-1700
CA	Hollingsworth & Still Norcross	404-447-1700
CA	Arrow Hart Wood Dale	312-595-7750
CA	ESI Indianapolis	317-638-4439
CA	Lorenz Sales Cedar Rapids	319-377-4666
CA	Arrow Hart Burnsville	612-894-2099
CA	Arrow Hart St Louis	314-962-2366
CA	Lorenz Sales Lincoln	402-475-4669
CA	Arrow Hart Berlin	609-768-9520
CA	Elec-Com Assoc Albuq	505-898-6101
CA	Hollingsworth & Still	
CA	Kernersville	404-447-1700
CA	Arrow Hart Mason	513-398-0156
CA	Genzel Sales Tulsa	718-622-7744
CA	Arrow Hart Willow Grove	215-659-3728
CA	Arrow Hart Richardson	214-644-6210
CA	Wescor Mkt SLC	801-466-9594

DISTRIBUTORS

AL	Jones Electronics Muscle Shoals	205-383-1241
AL	BE Switched Phoenix	602-275-4805
AZ	Fisher Brownell Tempe	602-967-1464
AZ	Carlton-Bates Little Rock	501-562-9100
CA	Electric Switches LA	213-660-1310
CA	Zack Elec San Francisco	408-626-1444
CA	Fisher Brownell Alhambra	213-289-0255
CA	Electro Components Commerce	213-727-0200
CA	Selecta Switch Covina	818-967-4119
CA	Calif Switch & Signal Gardena	213-770-2330
CA	Electro Components Hayward	415-783-5800
CA	Integrated Electronics	
CA	Sacramento	916-424-5297
CA	Fisher Brownell Santa Clara	408-988-6041
CA	Master Distributor Santa Monica	213-452-1229
CA	Fisher Brownell San Diego	619-560-8545
CA	Eurton Elect Santa Fe Spgs	213-946-4477
CA	Consolidated Parts San Jose	408-263-9521
CA	Cypress Electronics San Jose	408-945-8400
CA	Western Switches & Con Tustin	714-731-4333
CA	Consolidated Parts Inc Denver	303-623-5313
CA	Denver Wintronics Arvada	303-431-7161
CA	CSID Denver	303-292-9594
CA	Fistell's Elect Sy Denver	303-629-1312
CA	Ragon Electronics Denver	303-744-1992
CA	Star for Parts Denver	303-623-4224
CA	GAL Elec Co Hartford	203-232-9880
CA	Century Electric Shelton	203-736-2684
CA	Electronic Equip Co Miami	305-871-3500
CA	Peerless Radio Ft Lauderdale	305-973-4141
CA	Ace Elec Sy Jacksonville	904-398-9857
CA	Dixie Sales Oviedo	305-365-5211
CA	Workman Elect Prod Sarasota	813-371-4242
CA	Dow Electronics Tampa	813-626-5191
CA	Ack Radio Sy Atlanta	404-351-6304
CA	A-C Equipment Atlanta	404-451-2747
CA	Honolulu Electronics Honolulu	808-949-5564
CA	LCOMP Chicago Addison	312-628-1400
CA	Newark Electronics Chicago	312-738-5100
CA	Revenue Elec Sy Chicago	312-738-3636
CA	Ohm Electronics Palatine	312-359-5500
CA	G C Electronics Rockford	815-968-9661
CA	Electro Kinetics Wood Dale	312-595-6700
CA	Graham Elect Sup Indpls	317-634-8202
CA	Acro Electronics E Chicago	219-397-8681
CA	Hutch & Son Evansville	812-425-7201
CA	Industrial Elec Sy Shreveport	518-222-9459
CA	Ralphs Electronics Lafayette	318-233-0105
CA	Wm B Allen Sy New Orleans	504-525-8222

MD	Empire Elect Bethesda	301-656-3300
MD	Capitol Radio Whlrs Rockville	301-881-2270
MA	Sager Elect Sy Co Boston	617-749-6700
MA	Hilco Elec Sy Allston	617-783-2600
MA	W M Mayer Billerica	617-229-2255
MI	R S Elect Detroit	313-525-1155
MI	S-F Elect Sy Grand Rapids	616-459-0216
MI	Pioneer Mich Livonia	313-525-1800
MI	SPEMCO St Claire Shores	313-771-2700
MN	Gopher Elect Co St Paul	612-483-3322
MN	Sterling Electronics Mpls	612-332-4571
MS	Ellington Elect Jackson	601-355-0561
MO	LCOMP St Louis	314-291-6200
MO	LCOMP Kansas City	816-221-2400
NE	Scott Electronics Lincoln	402-466-8221
NH	Brevar Electronics Nashua	603-889-7230
NJ	Herman H Smith Inc Manasquan	201-223-9400
NJ	General Radio Sy Camden	609-964-8560
NJ	State Electronics E Hanover	201-887-2550
NJ	Brownell Electro Edison	212-691-1171
NJ	Kappe Elec Dist Prospect Pk	201-790-1999
NM	Walker Radio Albuquerque	505-883-2992
NY	Peerless Radio Corp Lynbrook	516-593-2121
NY	Aquas Electronics Rochester	716-454-7800
NY	Floance Elec Sy Binghamton	607-724-2455
NY	Genesee Radio & Parts Buffalo	716-873-9661
NY	Summit Dist Buffalo	716-884-3450
NY	S A I Farmingdale	516-293-2710
NY	Electronic Equipment Hempstead	212-895-5757
NY	Switches Unltd Woodside	212-478-5000
NC	Kirkman Elect Winston Salem	919-722-9131
OH	Pioneer /Cleve Cleveland	216-587-3600
OH	Hughes Peters Cincinnati	513-351-2000
OH	Midland Electric Cleveland	216-248-3800
OH	Hughes Peters Columbus	614-294-5351
OH	ESCO Dayton	513-226-1133
OH	Pioneer Dayton Dayton	513-236-9900
OR	Johnstone Corp Portland	503-231-4833
PA	Philadelphia Elect Phila	215-568-7400
RI	Dandreta & Co Providence	401-861-2800
RI	Radar Electric Seattle	206-282-2511
TN	Bluff City Dist Memphis	901-345-9500
TN	Carlton-Bates Nashville	615-244-3562
TN	Randolph & Rice Nashville	615-255-5602
TX	Allied Electronics Fort Worth	817-336-5401
TX	Harrison Equipment Austin	713-652-4700
TX	Associated Aircraft Sy Dallas	214-331-4381
TX	Harrison Equipment Dallas	713-652-4700
TX	Wilkinson Bros Dallas	214-941-9963
TX	Midland Specialty El Paso	915-533-9555
TX	Newark Electronics Garland	214-494-5911
TX	Harrison Equip Houston	713-879-2600
TX	Texas Elect Sy Lubbock	806-765-8456
TX	Fisher Brownell Richardson	214-235-3177
TX	Sherman Electronics San Antonio	512-232-1004
UT	Standard Sy SLC	801-486-3371
VA	Sterling Elect Richmond	804-226-2190
VA	Virginia Radio Sy	
VA	Charlottesville	804-296-4184
WA	Bell Industries Bellevue	206-747-1515
WA	Integrated /Jaco Bellevue	206-455-2727
WA	Radar Electric Seattle	206-282-2511
WI	Taylor Elec Co Mequon	414-241-4321

COOPER LASER SONICS-POWER		
SUPPLY OPER 177 N WOLFE RD		
SUNNYVALE CA 94086		
TWX 910-339-9201		
408-732-9880		
J LEVENHAGEN		

COOPER WIRE DIV STERN METALS INC		
320 WASHINGTON ST MT VERNON		
NY 10553 TWX 131557		
914-668-5597		
M LEVY EMP 20 ENG 3 \$1,000-\$2,500K		

COORS PORCELAIN CO 600 NINTH ST		
GOLDEN CO 80401 TWX 45593		
303-278-4000		
R LANGMAN EMP 1690 ENG 100		
CT	H Larisch	203-543-9581
IL	K Peterson	312-627-0470
MA	R S Traves	617-887-8144
NJ	L Atkins	201-526-9050
PA	R White	215-431-2553

COPAL ELECTRONICS CO LTD		
1-17-1 TORANOMON MINATO-KU		
TOKYO JAPAN 105 TWX J28891		
03-503-3777		
K YOSHIDA EMP 1000 ENG 200 OVER \$10,000K		
CA	Copal Electronics Santa Clara	408-970-9656
CA	Electric Motor Engrg Inc LA	213-469-7393

COPAL USA INC 23332 HAWTHORNE		
BLVD TORRANCE CA 90505		
213-373-9020		
MTAKAHASHI EMP 10 ENG 3 \$2,500-\$5,000K		
CA	Techrep Components Lomita	213-539-9070
CA	Pacific Electronics San Jose	408-286-9544
CO	Components Technology Denver	303-758-5750
CT	Motorpex Inc Canton	203-693-6366
MN	Arko Sales St Paul	612-777-7454
OH	B J Davis Corp Akron	216-645-0517

DISTRIBUTORS

CA	Ital Elect City of Industry	818-968-8515
CA	Cypress Elect Torrance	213-533-6005
CA	Capacitors Unltd San Jose	408-946-7676
CA	Sigma Elect San Diego	619-565-2000

IL	Prehler Elect Chicago	312-384-6100
MD	Petrico Sales Beltsville	301-937-4960
MI	Repton Elect Livonia	313-525-2700
NJ	M-Technologies Boonton	201-299-1295
NY	Prime Components Ronkonkoma	516-737-1730
OH	Shuster Elect Dayton	513-294-4499
TX	Tinkertronics Austin	512-926-4420
WI	Lakeview Elect Mequon	414-377-8250
FR	ITT Components Ontario	416-630-7971

COPLEY CONTROLS CORP 375		
ELLIOT ST NEWTOWN MA 02164		
TWX 285957		
617-965-2410		
B FRIEDMAN EMP 25 ENG 4		

COPPERWELD BIMETALLICS GROUP		
ROBINSON PLAZA TWO PITTSBURGH		
PA 15205 TWX 902941		
412-777-3000		
R MORRISON EMP 235 ENG 2		

COPPERWELD CORP 2 ROBINSON PLAZA		
PITTSBURGH PA 15230		
TWX 812481		
412-777-3070		
D BIELLER EMP 5000		

CORCON INC 1600 WINCHESTER RD		
LIBERTYVILLE IL 60048		
TWX 910-684-3269		
312-680-7400		
G MIGLEY EMP 200 ENG 10 OVER \$10,000K		
ADV PG 189		

AL	R O Whitesell & Assoc Huntsville	205-883-5110
AZ	ISDS Phoenix	602-971-6250
CA	Straube Assoc Mt View	415-969-6600
CA	ISDS Santa Ana	714-973-2162
CA	Straube Assoc Arvada	303-426-0890
CT	Conti-Younger Assoc Madison	203-245-1136
FL	E I R Inc Maitland	305-660-9600
ID	Cascade Components Boise	208-343-8866
IL	Sumner Inc Rolling Meadows	312-991-1850
IN	R O Whitesell & Assoc Indpls	317-359-9283
KY	R O Whitesell & Assoc Louisville	502-426-7696
MD	Marketing Technology Inc	
MD	Ellicott City	301-465-5944
MA	Conti-Younger Assoc Burlington	617-273-1582
MI	R O Whitesell & Assoc Southfield	313-559-5454
MI	Mel Foster Co Edina	612-941-9790
NY	Wincor Sales Manhasset	516-627-9474
NY	Noeth-Honsinger Assoc Pittsford	716-586-9002
NC	Zucker Assoc Raleigh	919-782-8433
OH	R O Whitesell & Assoc Dayton	513-298-9546
OR	Cascade Components Lake Oswego	503-635-2227
PA	PSA Inc Trevese	215-245-0513
TN	R O Whitesell Assoc Knoxville	615-694-9476
TX	K & H Sales Co Plano	214-423-6520
UT	Straube Assoc S L C	801-263-2640
WI	Sumner Inc Brookfield	414-784-6641
FR	Atlas Elec Ltd Toronto ON	416-789-7761

DISTRIBUTORS

AZ	Pioneer Huntsville	205-837-9300
AZ	Cetec Elect Phoenix	602-272-7951
CA	Diplomat Sunnyvale	408-734-1900
CA	Cetec Elect San Diego	619-278-5020
CA	Cetec Elect Southgate	213-773-6521
CA	Cetec Elect Santa Clara	408-980-0110
CA	Marshall Indus San Diego	619-578-9600
CA	Diplomat Elect Costa Mesa	714-549-8401
CA	Diplomat Elect Chatsworth	818-341-4411
CA	Marshall Industries Irvine	714-660-0951
CA	Marshall Industries El Monte	213-442-

NY	Aquas Electronics Rochester	716-454-7800
NY	Diplomat Elect Melville	516-454-6400
NC	Hammond Elect Greensboro	919-275-6391
NC	Pioneer Charlotte	704-527-8188
OH	Pioneer/Davon Dayton	513-236-9900
OH	Pioneer/Cleveland	216-587-3600
OR	Almac Beaverton	503-629-8090
PA	Pytronics Ind Montgomeryville	215-242-6700
PA	Pioneer/Pitts Pittsburgh	412-782-2300
PA	Almo Elec Philadelphia	215-698-4000
SC	Dixie Elect Columbia	803-779-5332
TX	Pioneer-Dallas Dallas	214-386-7300
TX	TTI Ft Worth	817-831-0441
TX	Pioneer/Austin Austin	512-835-4000
TX	Pioneer/Houston Houston	713-988-5555
TX	Marshall Elect Dallas	214-233-5200
TX	Marshall Elect Houston	713-789-6600
TX	Marshall Elect Austin	512-837-1991
TX	Diplomat Elect Dallas	214-980-1888
TX	Diplomat Elect Houston	512-452-5254
TX	Diplomat Elect Austin	512-452-5254
UT	Diplomat Elect S L C	801-486-4134
WA	Almac Bellevue	206-643-9992
WI	Marsh Elect Milwaukee	414-475-6000

**CORD ELECTRONICS INC 177
CANTAGUE ROCK RD WESTBURY
NY 11590 TWX 4758020 516-935-3640
B MILLER EMP 30 ENG 4 \$5,000-\$10,000
ADV PGS 98,237,276,326,345,427**

AR	Doby Assoc Jackson	601-981-1138
CA	SMI Representative Group	408-986-1610
CA	Sy Prevulsky Assoc	714-547-5177
CA	DePierre & Assoc	619-578-2555
CT	G M Assoc Manchester	203-646-4443
FL	HAI Electronics Coral Springs	305-752-7520
IL	RHI Sales Elgin	312-888-0099
IN	ELectronic Salesmasters	216-831-9555
IA	Weisler & Assoc Bettendorf	319-344-0566
MA	G M Assoc Framingham	617-872-4871
MI	Electronic Sales Masters Adrian	517-263-2500
MN	OEM Electrical Sales Mnpls	612-559-2448
MS	Doby Assoc Jackson	601-981-1138
MO	Weisler & Assoc Ellisville	314-394-4543
MO	Weisler & Assoc Kansas City	816-421-1679
NJ	Champion Electn Sales Co	609-983-0932
NM	Syntech Albuquerque	505-266-7951
NY	J-Square Marketing Jericho	516-935-3200
NY	J G Welch Assoc Rochester	716-244-1100
NY	J G Welch Assoc Utica	515-736-7821
OH	Electronic Sales Masters Beachwood	216-831-9555
OR	Electronic Mktg Group Portland	503-684-5935
TN	Doby Assoc Jackson	601-981-1138
TX	Design Marketing Irving	214-929-0611
TX	Design Marketing Round Rock	512-255-9896
VA	Electronic Sources Charlottesville	804-293-4041
WA	Electronic Mktg Group Redmond	206-882-0962
WA	Electronic Mktg Group Spokane	509-922-2718

**CORE-TRONICS INC 241 N DAY ST
ORANGE NJ 07050 201-673-7660
C MARTOWICZ EMP 20 ENG 2 \$500-\$1,000K**

CA	AMS Chemical Prods Co Mission Viejo	714-643-5300
PA	Corro Therm Inc Feasterville	215-322-5255

**CORLUND ELECTRONICS CORP
3543 OLD CONEJO RD 101
NEWBURY PARK CA 91320 805-499-6877
B MAC DONALD EMP 50 ENG 2 \$1,000-\$2,500K**

**CORNELL-DUBILIER ELECTRONICS
WAYNE INTERCHANGE PLAZA 1
WAYNE NJ 07470 TWX 710
995-4566 201-256-2000
A CAVUTO EMP 1000 ENG 15 OVER \$10,000K**

AZ	Electronic Devel & Sales Tempe	602-438-1547
CA	Cornell-Dubilier Carson	213-516-9070
CA	Harvey King Inc San Diego	619-566-5252
CA	Ewing-Foley Inc Los Altos	415-941-4525
CA	DJM Elect & Assoc Valencia	818-362-4309
CA	Cornell Dubilier Santa Monica	213-829-6701
CO	Western Region Mktg Inc Westminster	303-430-8883
CT	Coakley Boyd & Abbott North Haven	203-239-6217
FL	Dyne-A-Mark Corp Ft Lauderdale	305-771-6501
IL	Eagle Tech Sales Rolling Meadows	312-991-0700
IN	Technology Mktg Corp Carmel	317-844-8462
MD	Faion Lott & Co Baltimore	301-744-4611
MA	Coakley Boyd & Abbott Needham Hts.	617-444-5470
MI	Rathburg Assoc Detroit	313-882-1717
MN	Gibb Elctn Sales Minnetonka	612-935-4600
MO	Electri-Rep St Louis	314-878-8209
NY	Lenard D Allen Inc Syracuse	315-437-8387
NY	Cornell Dubilier Camillus	315-488-5822
NC	Cornell Dubilier Fuquay-Varina	919-552-2281
NC	Montgomery Mktg Inc Cary	919-467-6319

OH	Lyons Corp Dayton	513-278-0714
OR	Northwest Mktg Assoc Portland	503-297-2681
TX	R F Kimball Co Richardson	214-231-3447
UT	Western Region Mktg Inc SLC	801-355-7239
WA	Northwest Mktg Assoc Bellevue	206-455-5846
FR	Sudouest Import Sales Co Santurce PR	809-726-7635
FR	Source Elctns Ltd Rexdale ON	416-675-6235

DISTRIBUTORS

AL	Hall-Mark Elect Huntsville	800-633-2918
CA	Abacus Elect Mt View	415-961-1500
CA	Jaco Elect Chatsworth	213-998-2200
CA	Shelley-Newmann San Diego	714-453-7133
CA	Arrow Elect San Diego	714-565-4800
CA	Q C Comps Sun Valley	213-768-6111
CA	JACO San Jose	408-263-1100
CO	Arrow Elect Denver	303-758-2100
CT	Arrow Elect Wallington	203-265-7741
CT	R & S Electr East Hartford	
FL	Hammond Elect Ft Lauderdale	305-973-7103
FL	Hall-Mark Elect Ft Lauderdale	305-971-9280
FL	Hall-Mark Elect Orlando	305-855-4020
FL	Hammond Elect Orlando	305-842-6060
FL	Arrow Elect Palm Bay	305-725-1480

GA	Hall-Mark Elect Norcross	800-241-8182
IL	GBL/Gould Elect Elk Grove Vlg	312-593-3220
IL	Newark Elect Chicago	312-638-4411
IN	Arrow Electr Indpls	317-243-9353
IN	Graham Elect Sy Indpls	317-634-8486
IA	DEECO Cedar Rapids	319-395-7230
KS	Hall-Mark Elect Lenexa	913-888-4747
KS	Radio Sply Co Wichita	316-267-5214
MD	Arrow Elect Baltimore	301-247-5200
MD	Marshall Ind Gaitthersburg	301-840-9450
MD	A S I Electr Baltimore	301-265-5100
MA	A W Mayer Co Billerica	617-229-2255
MA	Jaco Elect Marlboro	617-485-0971
MA	Sterling Elect Waltham	617-894-6200
MA	Marshall Burlington	617-272-8200
MI	Newark/Det Oak Park	313-967-0600
MI	Pioneer/MI Livonia	313-525-1800
MN	Arrow Elect Edina	612-830-1800
MN	Newark Elect Mpls	
MN	Hall-Mark Elect Bloomington	
MN	Hall-Mark Elect Maryland Hgts	

MO	Olive Elect St Louis	314-426-4500
MO	Electronics Supply KC	816-931-0250
NE	Radio Equip Omaha	402-341-7700
NH	Arrow Elect Manchester	603-668-6968
NJ	State Elect Pts Hanover	201-887-2550
NJ	Lashen Elect Denville	201-620-3783
NJ	J-Mar Clifton	201-772-6400
NM	Arrow Elect Albuquerque	505-243-4566
NY	Arrow Elect Farmingdale	516-293-6363
NY	Summit Dist Rochester	716-887-2800
NY	Jaco Elect Hauapague	516-231-4000
NY	Simcoma Elect Rochester	716-328-3230
NY	Summit Elec of Rochester Rochester	716-887-2800

NY	Hall-Mark Ronkonkoma	516-737-0600
NY	ASI Electr Endwell	607-754-3823
NC	Hammond Elect Greensboro	919-275-6391
NC	Arrow Elect Winston Salem	919-725-8711
OH	Arrow Elect Centerville	513-435-5563
OH	Hughes Peters Cinc	513-351-2000
OH	Hughes Peters Columbus	614-294-5351
OH	Pioneer Dayton	513-236-9900
OH	Pioneer Std Cleve	216-587-3600
OH	Stotts Friedman Dayton	513-298-5555
OK	Radio Inc Tulsa	918-587-9123
PA	Arrow Elect Monroeville	412-856-7000
PA	Pioneer Pittsburgh	412-782-2300
PA	Phila Electr Philadelphia	215-568-7400
TX	Altair Co Houston	713-462-3029
TX	Altair Co Richardson	214-231-5166
TX	Hall-Mark Elect Dallas	214-341-1147
TX	Hall-Mark Elect Houston	713-781-6100
TX	Harrison Equip Houston	713-652-4700
UT	Calron Elect S L C	801-487-7451
WA	Almac/Stroum Seattle	206-763-2300
WI	Electronic Exp Acct Milw	414-228-8100
FR	Carsten Elect Scarborough ON	416-751-5095
FR	Hermes Elect Darmouth NS	902-466-7491
FR	Payette Radio Montreal PQ	514-878-4771
FR	Saynor Elect Dan Mills ON	416-445-0723
FR	Specialty Elect St Laurent PQ	514-336-4500
FR	Varahs Calgary AB	403-276-8818
FR	Varahs Vancouver BC	604-873-3211

**CORNELL MFG A NORTEK CO
25 RAMLAND RD ORANGEBURG
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L SCHRUR EMP 60 ENG 5 \$2,500-\$5,000K**

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CORNING NY 14831 607-974-9000
G WELLS III EMP 31500 OVER \$10,000K**

AL	Electronic Mfg Agents Huntsville	205-830-4030
CA	Corning Glass Works Santa Clara	408-249-6481
CA	Reider Assoc Encondido	714-741-0496
IL	Corning Glass Works Chicago	312-228-6070
MA	Corning Glass Works Littleton	617-486-3125
NC	Corning Glass Works Raleigh	919-876-1100

PA	Covert & Newman Co Pittsburgh	412-531-2000
PA	L D Lowery Assoc Broomall	215-356-5300

DISTRIBUTORS

AL	Schweber Electronics-Huntsville	205-882-2200
AZ	Wyle Distr Phoenix	602-249-2200
AZ	Bell Industries Tempe	602-966-7800
AZ	Shelley Electronics Tempe	602-894-2000
AZ	Schweber Elect Phoenix	602-997-4800
CA	Bell Indus Gardena	213-515-1800
CA	Wyle Distr El Segundo	213-322-8100
CA	Wyle Distr Santa Clara	408-727-2500
CA	Wyle Distr San Diego	714-565-9100
CA	Bell Indus Sunnyvale	408-734-8500
CA	Shelley-Ragon Chatsworth	818-998-3300
CA	Shelley-Ragon San Diego	714-453-3100
CA	Schweber Electronics Canoga Park	213-999-9000
CA	Schweber Electronics Irvine	714-863-3000
CO	Wyle Distr Thornton	303-457-9900
CO	Shelley Electronics Boulder	303-442-2700
CT	Almo Electronics Hamden	203-288-6500
CT	Cronin Electronics Wallingford	203-265-3100
CT	Milgray Electronics Orange	203-795-0700
CT	Schweber Electronics Danbury	203-792-3500
CT	Sterling Elect Wallingford	

FL	Dielco Ft Lauderdale	305-973-8700
FL	Milgray Electronics Winter Park	305-647-5700
FL	Schweber Electronics Altamonte Springs	305-331-7500
FL	Schweber Electronics Hollywood	305-927-0500
FL	Hammond Electronics Ft Lauderdale	305-973-7100
FL	Hammond Electronics Orlando	305-849-6000
GA	Milgray Electronics Atlanta	404-393-9600
GA	Schweber Electronics Norcross	404-449-9100
IL	Bell Indus Chicago	312-640-1900
IL	Schweber Electronics Elk Grove Vlg	312-595-6600

IN	Graham Elect Indpls	317-634-8200
IA	Schweber Electronics Cedar Rapids	319-373-1400
KS	Milgray Electronics Overland Park	913-236-8800
KS	Schweber Elect Overland Park	913-492-2900
MD	RESCO White Marsh	301-529-0500
MD	Schweber Electronics Gaithersburg	301-840-5900

MD	Almo Elect Rockville	301-670-0000
MD	MS Electronics Gaithersburg	301-921-0200
MA	Sterling Elctns Woburn	617-894-8200
MA	Cronin Elec Needham	617-449-0500
MA	Milgray Electronics Burlington	617-272-8800
MA	Schweber Electronics Bedford	617-275-5100
MI	Schweber Electronics Livonia	313-525-8100
MN	Ragon Elctns St Paul	612-642-2800
MN	Schweber Elctns Eden Prairie	612-941-5200
MO	Ragon Electronics Independence	816-254-3400
MO	Schweber Elctns Earth City	314-739-3900
NJ	Schweber Elctns Fairfield	201-469-6000
NJ	State Elec East Hanover	201-887-2500
NJ	Milgray Electronics Marlton	609-983-5000
NJ	Sterling Electronics Perth Amboy	201-442-8000

NM	Bell Industries Albuquerque	505-292-2700
NY	Milgray Elctns Farmingdale	516-420-4800
NY	Schweber Elctns Westbury	516-334-7400
NY	Schweber Electronics Rochester	716-424-2200
NY	Justin Electronics Bohemia	516-589-4000
NC	RESCO Raleigh	919-781-5700
NC	Hammond Electronics Greensboro	919-275-6300
NC	Schweber Electr Raleigh	919-876-0000
OH	Hughes-Peters Columbus	614-294-5300
OH	Milgray Electronics Cleveland	216-447-1500
OH	Schweber Electronics Beachwood	216-464-2900
OH	Schweber Electronics Dayton	513-439-1800
OK	Schweber Electronics Tulsa	918-622-8000
OR	Bell Industries Lake Oswego	503-241-4100
OR	Wyle Distribution Hillsboro	503-640-6000

PA	Almo Elctns Phila	215-698-4000
PA	Almo Electronics Enola	717-732-3600
PA	Almo Electronics Pittsburgh	412-931-5900
PA	Genesis Phila	215-568-7400
PA	Advacom McKean	214-235-9900
PA	Schweber Electronics Horsham	215-441-0600
PA	Schweber Electronics Pittsburgh	412-782-1600
TX	Schweber Electronics Austin	512-458-8200
TX	Schweber Electronics Dallas	214-661-5000
TX	Schweber Electronics Houston	713-784-3600
TX	Wyle Richardson	214-235-9900
UT	Bell Industries SLC	801-972-6900
UT	Wyle Distribution SLC	801-974-9900
VA	Virginia Radio Supply Charlottesville	804-296-4100

WA	Wyle Distr Bellevue	206-453-8300
WA	Bell Ind Bellevue	206-747-1500
WI	Bell Industries Waukesha	414-784-0200
WI	Schweber Electronics Brookfield	414-784-9000
FR	Arro-Cesco Montreal PQ	514-735-5500
FR	Arro-Cesco Toronto ON	416-661-0200
FR	Arro-Cesco Ottawa ON	613-226-6900
FR	Future Electronics Calgary AB	403-259-6400
FR	Future Electronics Vancouver BC	604-438-5500
FR	Future Electronics Ottawa ON	613-820-8300
FR	Future Electronics Point Claire PQ	514-694-7700

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NY 14831.....607-974-4102

DISTRIBUTORS

CA Leed Plastics Corp LA.....213-746-5984
CA San Jose Delta Assoc Santa Clara.....408-727-1448
IL Circle Fabrications Addison.....312-543-4440
NJ Accuratus Ceramic Corp
Washington.....201-689-0880
OH Duraminc Products Palisades PK.....201-947-8313
OH Astro Met Assoc Cincinnati.....513-772-1242
TX EGC Corp Houston.....713-447-8611
WI Technical Prods Milwaukee.....414-464-3032
FR Johns Scientific Toronto ON.....416-439-9602

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PRODUCTS MS-21-5-8 CORNING
NY 14831 TWX 510-252-1595.....607-737-1667
P KNOTT
CA Corning Glass Wks Palo Alto.....415-494-3641
IL Corning Glass Wks Park Ridge.....312-823-9066
MA Corning Glass Wks Medfield.....617-359-7711
TX Corning Glass Wks Houston.....713-931-0099

CORNING GLASS WORKS TECH
PRODS DIV MP8-04-4 CORNING
NY 14830 TWX 510-252-1384.....607-974-9000
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OAKS CA 91360 TWX 658212.....805-495-5800
EMP 250
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MA Corona Data Sys Acton.....617-264-4499
PA Corona Data Sys West Mifflin.....412-469-0705
TX Corona Data Sys Dallas.....214-788-4922
WI Corona Data Sys Brookfield.....414-781-0277

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CA Arrow Elect Tustin.....714-838-5422
CA Comtech Distr Northridge.....818-701-0521
CA Northern Lights Berkeley.....415-540-6162
CT National Computer Commun
Stamford.....203-325-3831
GA American Micro Dist Atlanta.....404-951-8964
GA Arrow Elect Norcross.....404-449-8252
IL Data One Prospect Hts.....312-520-1300
IL Micro Inc Bensenville.....312-350-1300
MD D & H Dist Savage.....301-792-7000
MA Arrow Elect Woburn.....617-938-8700
MA Eastern Micro Marlboro.....617-480-0400
MO Ameridata Systems Mnpls.....612-536-6000
MO Arrow Elect St Louis.....314-567-7747
MO B & W Distr St Louis.....314-569-2450
NJ Arrow Elect Fairfield.....201-575-5300
NY Arrow Elect Melville.....516-391-1722
NY Micro Exim Pittsford.....716-586-8260
OH Arrow Elect Columbus.....614-436-0928
OR Microwave Dist Aloha.....503-642-7892
PA D & H Dist Harrisburg.....717-236-8001
PA Hamburg Bros Pittsburg.....412-227-6200
TX Arrow Elect Carrollton.....214-931-6861
WA Microwave Dist Redmond.....206-882-2037
FR CDI Inc North Vancouver BC.....604-984-0641
FR CDI Inc St Laurent PQ.....514-333-0820
FR CDI Inc Willowdale.....416-495-1817

CORPANE INDUSTRIES INC
250 PRODUCTION CT LOUISVILLE
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R COX
CORRUGATED PAPER PRODUCTS INC
300 BABYLON TPK ROOSEVELT
NY 11575.....516-379-8200
M KATZ

CORTEC INC 15811 CHEMICAL LA
HUNTINGTON BCH CA 92649.....714-897-2529
A HERBERT EMP 40 ENG 2 \$500-\$1,000K
FL K-Square St Petersburg.....813-381-1893
IL Kennedy Engrg Chicago.....312-613-8283
NJ S E A Co Box 444 Old Bridge.....201-679-8800

CORTX RESEARCH CORP 1912
RAYMOND DR NORTHBROOK
IL 60062 TWX 46 73 23.....312-480-1088
S FOSSLIEN EMP 10 ENG 3

CORTON DIV ITW 400 W GRAND AVE
ELMHURST IL 60126
TWX 910-254-0154.....312-279-9110
R INGLIS EMP 300 ENG 15 OVER \$10,000K

COSAR CORP 3121 BENTON ST
GARLAND TX 75042 TWX 506973.....214-276-9487
J JARKA EMP 60 ENG 4 \$1,000-\$2,500K
CA Cosar Corp Garden Grove.....714-534-4007
CT Cosar Corp Brookfield.....203-775-4078
IL Cosar Corp Hanover Park.....312-289-4846

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IL K Schlanger Elmhurst.....312-530-5544
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NC Accurate Printing Sply Charlotte.....704-376-0917
NC Young & Phillips Winston Salem.....919-768-0110
TX Phillips & Jacobs Dallas.....214-358-1456
TX Richcolor Systems Wylie.....214-442-5456

COSMO PLASTICS CO 3239 W 14TH ST
CLEVELAND OH 44109TWX 810
421-8444.....216-861-5594
B GORDON EMP 500 ENG 12 OVER \$10,000K

COTO CORP 55 DUPONT DR
PROVIDENCE RI 02907
TWX 710-381-8016.....401-943-2686
B POISSON EMP 250 ENG 15 \$5,000-\$10,000K
CA Testco Inc Saratoga.....408-253-1900
CA Component Mktg Assoc Lomita.....213-326-1460
CA Eagle Tech Sales Escondido.....619-743-6550
CO Spectrum Sales Denver.....303-696-1601
IL Richmar Elctns Downers Grove.....312-968-0118
IN Richmar Elctns W Lafayette.....317-846-6383
NY Jarms Assoc Melville.....516-752-0404
OR ECCO Mktg Portland.....503-641-8540
PA J S Wurts Co Gladwyne.....215-649-6300
TX Richmar Corp Plano.....214-867-8224
WA ECCO Mktg Seattle.....206-542-9261
WI Richmar Elctns Butler.....414-781-1730

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CA Master Distributors Santa Monica.....213-452-1229
COTRONICS CORP 3379 SHORE
PARKWAY BROOKLYN NY 11235.....718-646-7996
B REZNIK EMP 10 ENG 3 \$5,000-\$10,000K
CA P Patteson Box 213 San Ramon.....415-837-4416

COTTRELL PAPER CO INC BOX 35
ROCK CITY FALLS NY 12863.....518-885-1702
R HARRINGTON EMP 54 ENG 2 \$2,500-\$5,000K
CA Essex/IWI LA.....213-264-7000
CA Electrical Specialty S
San Francisco.....415-589-9611
CO Ward Electric Supply Co Denver.....303-222-3541
FL Brownell Inc Orlando.....305-424-5634
GA Electrical Insul Suppliers
Atlanta.....404-355-1651
IL Keegan Entrps Northfield.....312-446-7331
MA Essex/IWI Peabody.....617-JE1-7100
MI Essex/IWI Hillsdale.....517-437-3376
MN D A Schultz Co Mnpls.....612-FE9-7701
MO Essex/IWI St Louis.....314-FR1-2616
NJ Robt McKeown Co Livingston.....201-992-0700
NY Schmitz Bros Inc Rochester.....716-546-7628
NC Elec Insul Suppliers Charlotte.....704-392-7366
OH C J Voneman Co Cleveland.....216-226-8000
OK John H Cole Co Okla City.....405-CE2-3171
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TN Brownell Inc Memphis.....901-795-8483
TX Houston Ind Supply Houston.....713-683-0311
UT Electric Parts & Insulation SLC.....486-0773
WV McJunkin Corp Charleston.....304-348-5211
WI Special Electric Co Milwaukee.....383-6370
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FR Andrew Gluchist Ltd Montreal PQ.....514-735-3603
FR Domtar Const Matl Concord ON.....416-661-2351
FR Selbor Corp Barrington RI.....401-433-0102

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LOCKHEED WAY CARSON CITY
NV 89701.....702-882-6123
T COUNTIS EMP 15 ENG 2 \$500-\$1,000K

COVOX INC 675-D CONGER ST
EUGENE OR 97402 TWX 706017.....503-342-1271
J STEWART EMP 25 ENG 4 \$500-\$1,000K

COX & COMPANY INC 215 PARK AVE S
NEW YORK NY 10003
TWX 710-581-2839.....212-674-4727
M PILCHIK EMP 150 ENG 12 \$2,500-\$5,000K
WA Lehr Assoc Bellevue.....206-453-9993
CPC INC 1 CIRCUIT DR RANDOLPH
MA 02368.....617-986-8600
E CARPENTER EMP 110 \$5,000-\$10,000K

CPN CORP 130 S BUCHANAN CIR
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MA Intersell.....617-273-3844
NY Spectrum Sales.....914-742-8600

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204 COOPER CTR N PARK DR
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TWX 759716.....609-488-0700
C MCGILL EMP 30 ENG 3 \$2,500-\$5,000K

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CA 90220 TWX 67-4116.....213-537-1233
J WEXLER OVER \$10,000K

CRAIG DATA CABLE CO INC
652 GLENBROOK RD STAMFORD
CT 06906 TWX 510-10-669.....203-356-9315
R RICH EMP 35 ENG 2 \$2,500-\$5,000K

CRAIG SYSTEMS CORP 10 INDUSTRIAL
WAY AMESBURY MA 01913
TWX 710-347-0590.....617-388-5662
R LEGROW EMP 300 ENG 12

AL TMA Huntsville.....205-883-7893
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FL TMA Orlando.....305-857-3760
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NJ Noreast Technical Sales Teaneck.....201-833-2044
TX Textec Dallas.....214-233-1928

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401 PROGRESS DR BOX F
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C BUFTON EMP 100 ENG 4 \$2,500-\$5,000K
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J FITZGERALD EMP 60 ENG 4 \$5,000-\$10,000K

AL J Heusser Birmingham.....205 836-3896
AZ Ross Bloom & Assoc Phoenix.....602-955-5024
AR Byrson-Carson Co Little Rock.....213-931-1537
CA Hogan Sales Co LA.....213-931-1537
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Francisco.....405-864-0444
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FL Jack's Co Miami.....305-653-2620
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TN M S Kontovich Chattanooga.....615-886-4233
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TWX 910-379-6988..... 415-964-7400
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GROVE VILLAGE IL 60007
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W BORDELON EMP 30 ENG 4 OVER \$10,000K

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WEEHAWKEN NJ 07087..... 201-863-1134
T BAKER EMP 50 \$2,500-\$5,000K

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B MOFFATT EMP 45 ENG 2

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IL 60195 TWX 206297..... 312-843-2200
R BARNARD EMP 16 ENG 5

AL Miller & Carns Birmingham..... 205-870-1340
AZ Flexible Technology Phoenix..... 602-996-6421
CA Motion Control of So CA

San Marino..... 818-796-0189
CA Cummings & Assoc Santa Clara..... 408-247-8656
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UT Control Agency Salt Lake City..... 801-328-4305
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CA Electronic Control Devices

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IL Hawk Elect Wheeling..... 312-459-4030
IL Excel Electric Chicago..... 312-421-7220

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Wellesley Hills..... 677-235-1565

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MI Mor Electric Cornstock Park..... 616-784-1121
MI S-F Elect Grand Rapids..... 616-459-0216

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SC Holder Elec Sply Greenville..... 803-271-7111

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TX Swico Inc Ft Worth..... 817-365-6521
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WA Eicher-Richards Co Seattle..... 206-523-7888
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GA Spartech Assoc Norcross..... 404-446-7300

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CT NRG Ltd Westport..... 203-226-7527
FL EMA Inc St Petersburg..... 813-577-7700

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KS Advanced Tech Sales Olathe..... 913-782-8702

KY Technology Mktg Corp Louisville..... 502-499-7808
MA AD Systems Sales Lexington..... 617-861-6370
MI Luebbe Sales Livonia..... 313-477-3131

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Prairie..... 612-941-0830
MO Advanced Tech Sales St Louis..... 314-878-2921

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MI Gibb Elect Sales Minnetonka..... 612-935-4600
MO Rep-Tronics St Louis..... 314-576-9816

NH Com-Sales Inc Exeter..... 603-772-3300
NJ Freedman-Malta Assoc King
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NJ Sonkin Assoc Yonkers NY..... 914-968-8242
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NY Murkin Sales Corp Syracuse..... 315-437-0734

NY Sonkin Assoc Yonkers..... 914-968-8282
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PA Freedman-Malta Assoc King
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PA G & H Sales Solon OH..... 216-248-8490
SC RA Sales Easley..... 803-859-1859
TN Advanced Comp Sales Indpls IN..... 317-545-6441

TX RA Sales Easley SC..... 803-859-1859
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WA Edco Sales Edmonds..... 206-776-8922

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J POSA EMP 57 ENG 8

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TWX 710-347-1523..... 617-745-0088
C HERMAN EMP 25 ENG 8 \$2,500-\$5,000K

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AZ Toribre Enterprises Mesa..... 602-835-1798
CA Wolff Engrg Corp Newport Bch..... 714-646-1754
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OR Olson Ferree & Assoc Hillsboro..... 503-643-9488
PA Omni Sales Assoc Erdeneim..... 215-233-4600
SC Electronic Mktg Assoc Greenville..... 803-233-4637

TX W Pat Fralia Co Bedford..... 817-267-3577
WA Olson Ferree & Assoc Bellevue..... 206-883-7792



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CRYDOM
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Massachusetts (617) 749-6700 • Metro New York (516) 348-1300 • Connecticut (203) 265-4600 • New Hampshire (603) 898-1348

DISTRIBUTORS		
AZ	Acacia Tempe	602-894-2874
AZ	R V Weatherford Phoenix	602-272-7144
CA	Pyramid Elect Santa Clara	408-727-9810
CA	R V Weatherford Co Glendale	213-849-3451
CA	RPS Elect Buena Pk	714-521-5230
CA	Acacia Irvine	714-680-0834
CA	Cypress Elect San Jose	408-945-8400
CA	RPS Elect San Diego	619-292-5611
CA	Atwater Burbank	213-845-2064
CA	R V Weatherford Denver	303-428-6900
CO	Cypress Elect Wheat Ridge	303-431-2522
CO	NEP Elect Englewood	303-799-9898
CT	Cobra Components Norwalk	203-847-6442
IL	Nep Elect Chicago	312-625-8400
IL	Technology Sales Palatine	312-991-6600
IL	OHM Electronic Palatine	312-359-5500
IN	Graham Indpls	317-634-8202
MD	Axis Electronics Gaithersburg	301-840-9540
NH	Astrum Elect Hampstead	603-329-5656
NJ	C & H Elect Hudson	603-882-1133
NJ	Mid-Atlantic Bellmaw	609-931-5303
OH	ADM Electronics Cincinnati	513-579-8108
OH	Graham Elect Cincinnati	513-772-1661
OR	Radar Electric Portland	503-232-3404
OR	Bell Industries Lake Oswego	503-241-4115
PA	Jan Ind Elect Phila	215-922-1321
TX	Harrison Equip Co Dallas	214-239-2750
TX	Harrison Equip Co Austin	512-458-3555
TX	OHM Elect Carrollton	214-620-2230
TX	Cypress Elect Dallas	214-869-1435
WA	Radar Electric Co Seattle	206-282-2511
WA	Bell Industries Bellevue	206-747-1515
WA	R V Weatherford Seattle	206-575-1340
WI	Taylor Elect Mequon	414-241-4321
WI	NEP Electronics New Berlin	414-785-9100

CSI CAPACITORS 810 RANCHEROS DR		
SAN MARCOS CA 92069		
TXW	697832	619-747-4000
TVON TUNGLEN EMP 47 ENG 4		
CA	Comtech Mktg Co San Jose	408-365-7474
CA	HV Sales Co Tarzana	818-881-9194
FL	Glenn Tech Sales Co Orlando	305-299-8700
IL	ESCO Assoc Des Plaines	312-298-5310
NM	Cleveland Enterprises Albuquerque	505-265-7893
NY	ST Woodard Co Cazenovia	315-655-8145
OH	KW Electn Sales Dayton	513-890-2150
TX	DVS Co Washington Crossing	215-493-4642
TX	Cunningham Co Houston	713-461-4197
R	Anbak Sales Oakville ON	416-842-6630
R	Anbak Sales Beaverton PQ	514-697-4669
R	Macom Agencies Richmond BC	604-271-2661

JSP INC 40 LINNELL CIR		
BILLERICA MA 01821		
TXW	710-347-0176	617-272-6020
C WARE EMP 150		

WTEK INC 4 RAILROAD AVE		
WAKEFIELD MA 01880		
JVANAMAN EMP 15 ENG 3 \$500-\$1,000K		617-246-1720

JEMP INC 1285 JEFFERSON ST		
ANAHEIM CA 92807		
GSTANTON EMP 15 ENG 4 \$250-\$500K		714-630-8451

JTI CRYOGENICS DIV HELIX		
TECH CORP 266 2ND AVE BOX 9171		
WALTHAM MA 02254-9171		
TXW	92-3442	617-890-9400
R LEPOFSKY EMP 480 ENG 50 OVER \$10,000K		
ADV PG 523		

JTS CORP 905 N WEST BLVD		
ELKHART IN 46514TXW 810		
294-2167		219-293-7511

REARLY EMP 7500 ENG 129 OVER \$10,000K		
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IL	Interrep Assoc Huntsville	205-533-1730
AZ	Compass Mktg & Sales Phoenix	602-996-0635
CA	CTS Corp S Pasadena	213-682-1137
CA	CTS Corp Fremont	415-659-1704
CO	Elcom Denver	303-337-2300
CT	CompRep Assoc Wallingford	203-269-1145
FL	ElectroComp Assoc Deerfield Beach	305-429-0802
FL	Interrep Assoc Norcross	404-449-8680
IL	CTS Corp Addison	312-543-5021
IN	CTS Corp Elkhart	219-293-7511
IA	Seltic Sales Corp Cedar Rapids	319-393-1114
KS	Advanced Technical Overland Pk	913-482-4333
MD	Professional Reps Columbia	301-992-7460
MA	Comp Rep Assoc Westwood	617-329-3454
MI	J L Montgomery Assoc Southfield	313-358-2616
MI	R W Marshall Co Mnpis	612-929-0457
MO	Advanced Technical St Louis	314-227-4448
NY	S-J Sales Assoc Jamaica	212-291-3232
NY	Nycom Inc East Syracuse	315-437-8343
NC	Zucker Assoc Raleigh	919-782-8433
OH	Baehr Greenleaf & Assoc Cleveland	216-221-9030
PA	PSA Inc Treviso	215-245-0513
TX	Southern States Mktg Addison	214-387-2489
UT	ELCOM Inc 1518 S 1100 E SLC	801-532-7940
WA	ETS Kirkland	206-827-8066
FR	CTS of Can Ltd Streetsville ON	416-826-1141
	Electronic Sales Assoc Rio Piedras	809-769-2911

DISTRIBUTORS		
AZ	Hall-Mark Elec Huntsville	205-837-8700
AZ	Bell Industries Tempe	602-966-7800
CA	Bell Industries Sunnyvale	408-734-8570
CA	Arrow Electronics Chatsworth	213-701-7500
CA	Marshall Industries Canoga Park	213-999-5001
CA	Arrow Electronics Aurora	303-696-1111
CT	Marshall Industries Wallingford	203-265-3822
L	Hall-Mark Orlando	305-855-4020
LA	Marshall Industries Norcross	404-923-5750

IL	RM Electronics Elk Grove Vlg	312-364-6622
IN	Graham Elect/Bell Ind Ft Wayne	219-423-3422
KS	Bell Industries Cedar Rapids	319-395-0730
MD	Hall-Mark Lenexa	312-888-4747
MD	Arrow Electronics Baltimore	301-247-5200
MA	Greene-Shaw Newton	617-969-8900
MI	R M Electronics Grand Rapids	616-531-9300
MI	Arrow Electronics Edina	612-930-1800
MO	Hall-Mark Earth City	314-291-5350
NE	Scott Elec Sply Lincoln	402-466-8221
NH	Arrow Electronics Manchester	603-668-6968
NJ	Arrow Electronics Moorestown	609-235-1900
NM	Arrow Electronics Albuquerque	505-243-4566
NY	Summit Distb Buffalo	716-884-3450
NY	Arrow Elect Melville	516-694-6800
NC	Arrow Electronics Raleigh	919-876-3132
OK	Bell Industries Dayton	513-435-8660
OK	Hall-Mark Tulsa	918-665-3200
OR	Moore Electronics Tigard	503-684-3100
PA	Arrow Electronics Monroeville	412-856-7000
TN	Graham Elect/Bell Ind Nashville	215-242-2682
TX	Hall-Mark Dallas	214-553-4300
UT	Bell Industries SLC	801-872-6969
WA	Arrow Electronics Bellevue	206-643-4800
WI	Hall-Mark New Berlin	414-797-7844

CTS CORP ASHEVILLE DIV		
1142 W BEARDSLEY AVE ELKHART		
IN 46514		
T HANEY EMP 400 ENG 5		
AL	Interrep Assoc Huntsville	205-533-1730
AZ	Compass Mktg & Sales Phoenix	602-266-5400
CA	CTS Corp Pleasanton	415-462-6635
CA	CTS Elctns Inc S Pasadena	213-682-1137
CO	Elcom Denver	303-770-4400
CT	CompRep Assoc North Haven	203-239-9762
CT	Electrocomp Assoc Ft Lauderdale	305-491-4141
FL	Interrep Assoc Norcross	404-449-8680
IN	Electronic Reps Indpls	317-894-1414
IA	Seltic Sales Corp Cedar Rapids	319-393-1114
KS	Advanced Tech Sales Overland	913-492-4333
MD	Professional Reps Baltimore	301-653-3600
MA	Comp Rep Assoc Westwood	617-329-3454
MI	J L Montgomery Southfield	313-358-2616
MN	Robt W Marshall Co Mnpis	612-929-0457
NY	Nycom Inc Syracuse	315-437-8343
NY	S-J Sales Assoc Jamaica	212-291-3232
NC	Zucker Assoc Raleigh	919-782-8433
OH	Baehr Greenleaf & Assoc Cleveland	216-221-9030
PA	PSA Inc Treviso	215-245-0513
TX	Southern States Mktg Richardson	214-238-7500
UT	Elcom SLC	801-532-7940
FR	CTS Of Canada Ltd Streetsville Ont	416-826-1141

CTS CORP BERNE DIV 406 PARR RD		
BERNE IN 46711		
TXW 810-323-1580		
J LONG EMP 1000		
AL	Interrep Assoc Huntsville	205-533-1730
AZ	Compass Mktg & Sales Phoenix	602-996-0635
CA	CTS Corp Pleasanton	415-462-6635
CA	CTS Corp South Pasadena	213-682-1137
CO	ELCOM Inc Denver	303-337-2300
CT	Comp Rep Assoc North Haven	203-239-9762
FL	Electrocomp Assoc Deerfield Bch	305-429-0802
FL	Interrep Assoc Norcross	404-449-8680
IL	CTS Corp Addison	312-543-5021
IN	CTS Corp Elkhart	219-293-7511
IA	Seltic Sales Corp Cedar Rapids	319-393-1114
KS	Advanced Technical Overland Pk	913-482-4333
MD	Professional Reps Columbia	301-992-7460
MA	Comp Rep Assoc Westwood	617-329-3454
MI	J L Montgomery Assoc Southfield	313-358-2616
MI	R W Marshall Co Mnpis	612-929-0457
MO	Advanced Technical St Louis	314-227-4448
NY	S-J Sales Assoc Jamaica	212-291-3232
NY	Nycom Inc East Syracuse	315-437-8343
NC	Zucker Assoc Raleigh	919-782-8433
OH	Baehr Greenleaf & Assoc Cleveland	216-221-9030
PA	PSA Inc Treviso	215-245-0513
TX	Southern States Mktg Addison	214-387-2489
UT	ELCOM Inc 1518 S 1100 E SLC	801-532-7940
WA	ETS Kirkland	206-827-8066
FR	CTS of Can Ltd Streetsville ON	416-826-1141
	Electronic Sales Assoc Rio Piedras	809-769-2911

DISTRIBUTORS		
AZ	R V Weatherford Phoenix	602-272-7144
CA	Bell Indus Sunnyvale	408-734-8570
CA	Rose Elect Burlingame	415-348-8383
CA	Ratel Elect San Jose	408-946-4300
CA	Richey Western Elec LA	213-820-3777
IN	Arrow Indpls	301-988-9800
MD	Hall-Mark/Baltimore Columbia	301-988-9800
MA	Green-Shaw Co Newton	617-969-8900
NY	Arrow Elect Farmingdale	516-694-4800
NY	QAR Elect Mt Vernon	914-699-2224
NC	RESCO Raleigh	919-78-5700
OR	Moore Elect Tigard	503-635-8823
TX	Hallmark Elect Dallas	214-237-7300
TX	Southwest Elec Stafford	713-491-4900
WI	Arrow Oak Creek	414-764-6600

CTS ELECTRONICS CORP 500		
LINNE RD PASO ROBLES CA 93446		
TXW	62537040	805-238-0350
J BELL EMP 400 ENG 16		
AL	Interrep Assoc Huntsville	205-533-1730
AZ	Compass Mktg Phoenix	602-266-5400
CA	Cts Elctns Pleasanton	415-462-6635
CA	CTS Corp S Pasadena	213-682-1137
CO	Elcom Denver	303-337-2300
CT	Comp Rep Assoc North Haven	203-239-9762
FL	ElectroComp Assoc Deerfield Bch	305-429-0802
GA	Interrep Norcross	404-449-8680
IL	CTS Knights Sandwich	815-786-8411

IN	CTS Corp Elkhart	219-293-7511
IA	Seltic Sales Cedar Rapids	319-393-1114
KS	Advanced Tech Sales Overland Park	913-642-6675
MD	Professional Reps Inc Columbia	301-992-7460
MA	CompRep Assoc Inc Westwood	617-329-3454
MI	J L Montgomery Inc Southfield	313-358-2616
MN	Robt W Marshall Co Mnpis	612-929-0457
MO	Advanced Tech Sales St Louis	314-878-2921
NM	Compass Mktng Albuquerque	505-888-0800
NY	S-J Sales Assoc Inc Jamaica	212-291-3232
NY	Nycom Inc East Syracuse	315-437-8343
NC	Zucker Assoc Raleigh	919-782-8433
OH	Baehr Greenleaf & Assoc Cleveland	216-221-9030
OK	Southern States Mktng Tulsa	918-665-8338
PA	PSA Inc Treviso	215-245-0513
TX	Southern States Mktg Richardson	214-238-7500
UT	Elcom SLC	801-485-7415
FR	CTS of Canada Ltd Streetsville ON	416-826-1141

DISTRIBUTORS		
AL	Hallmark Elect Huntsville	205-837-8700
AZ	R V Weatherford Co Phoenix	602-272-7144
CA	Arrow Elect Sunnyvale	408-745-6600
CA	Bell Ind Gardena	213-515-1800
CA	Bell Ind Sunnyvale	408-734-8570
CA	Calif Switch & Sign Gardena	213-770-2330
CA	Ratel Elect San Jose	408-946-4300
CA	Ratel Elect Irvine	714-768-0855
CA	Logan Elect Sply Burlingame	415-697-6481
CA	Rose Elect Burlingame	415-348-2740
CA	Richey Western LA	213-820-3777
CA	Arrow Elect San Diego	619-565-4800
CA	Arrow Elect Hayward	415-487-4300
CA	Arrow Elect Denver	303-696-1111
CO	Integrated Elect Denver	303-292-6121
CT	Midcon Elect Wallingford	203-265-2077
CT	Midcon Elect Wallingford	203-265-7741
FL	Arrow Elect Ft Lauderdale	305-776-7790
FL	Hallmark Orlando	305-855-4020
FL	Arrow Elect Palm Bay	305-725-1480
GA	Arrow Elect Norcross	404-449-8252
GA	Hallmark Elect Norcross	404-447-8000
IL	Bell Ind Chicago	312-982-9210
IL	Arrow Elect Schaumburg	312-397-3440
IL	Hallmark Elect Bensenville	312-860-3800
IN	Arrow Elect Indpls	317-243-9353
KS	Hallmark Elect Lenexa	913-888-4747
MD	Arrow Elect Baltimore	301-247-5200
MD	Hallmark-Elect Baltimore	301-796-9300
MA	Greene-Shaw Newton	617-969-8900
MA	Arrow Elect Woburn	617-933-8130
MI	Arrow Elect Ann Arbor	313-971-8220
MI	R M Elect Grand Rapids	616-531-9300
MI	R S Elect Livonia	313-525-1155
MN	Arrow Elect Edina	612-830-1800
MN	Industrial Comps Mpls	612-831-2666
MN	Hallmark Elect Bloomington	612-854-3223
MO	Oliver Elect St Louis	314-426-4500
MO	Arrow Elect St Louis	314-567-6888
NE	Scott Elect Sply Lincoln	402-466-8221
NH	Arrow Elect Manchester	603-668-6968
NJ	Arrow Elect Moorestown	609-235-1900
NJ	Hallmark Cherryhill	609-424-0880
NJ	Arrow Elect Fairfield	201-575-5300
NM	Arrow Elect Albuquerque	505-243-4566
NM	Bell Indus Albuquerque	505-292-2700
NY	Arrow Elect Liverpool	315-652-1000
NY	Arrow Elect Rochester	716-275-0300
NY	QAR Ind Elect Mt Vernon	914-699-2224
NY	Rome Elect Rome	315-337-5400
NY	Summit Dist Buffalo	

TX	Cunningham Comp Corp 432 Spring Valley Dallas	
UT	Elcom Inc 1518 S 1100 E SLC	
WA	SD-R2 Prod & Sales 14230 NE 8 St Bellevue	
CTS	FABRI-TEK INC CONNECTOR DIV 9210 SCIENCE CTR DR NEW HOPE MN 55428 TWX 910-576-2717	612-533-3533
	SOTTO EMP 250 ENG 10 OVER \$10,000K	
AL	Interp Assoc Huntsville	205-533-1730
AZ	Compass Mktg Phoenix	602-266-5400
CA	CTS Corp So Pasadena	213-682-1137
CA	CTS Corp Pleasanton	415-462-6635
CO	Elcom Inc Denver	303-337-2300
CT	CompRep North Haven	203-239-9762
FL	Electrocomp Assoc Ft Lauderdale	305-429-0802
GA	Interp Norcross	404-449-8680
IN	Electronic Rep Indpls	317-894-1414
IA	Seltz Sales Cedar Rapids	319-393-1114
MD	Pro Rep Baltimore	301-653-3600
MA	Comp Rep Assoc Westwood	617-329-3454
MI	J L Montgomery Assoc Southfield	313-358-2616
MN	S & R Sales Mpls	612-559-3090
MO	Advanced Tech Sales St Louis	314-227-4448
NY	Kirby Marketing Pittsford	716-248-8750
NY	S J Assoc Jamaica	212-291-3232
NC	Zucker Assoc Raleigh	919-782-8433
OH	Baehr, Greenleaf & Assoc Cleveland	216-221-9030
OK	Southern States Mktg Tulsa	918-665-8338
PA	PSA Inc Trevoise	215-245-0513
UT	Elcom Inc SLC	801-532-7940
WA	SD-R2 Production Sales Bellevue	206-747-9424
FR	CTS of Canada Streetsville ON	416-826-1141
CTS	KNIGHTS INC 400 REIMANN AVE SANDWICH IL 60548	
	TXW 910-642-0860	815-786-8411
	L BARBARY EMP 500 ENG 40	
CTS	MICROELECTRONICS INC 1201 CUMBERLAND AVE WEST LAFAYETTE IN 47906	
	TXW 810-342-1882	317-463-2565
	R HUBER EMP 500 ENG 35 OVER \$10,000K	
AL	Interp Assoc Huntsville	205-533-1730
AZ	Compass Mktg & Sales Phoenix	602-996-0635
CA	CTS Corp 4133 Mohr Av Fremont	415-659-1704
CA	CTS Corp Box 629 S Pasadena	213-682-1137
CO	Elcom Denver	303-337-2300
CT	CompRep Assoc Inc Wallingford	203-269-1145
FL	Electro Comp Assoc Altamonte Spgs	305-429-0802
GA	Interp Assoc Norcross	404-449-8680
IL	CTS Corp Addison	312-543-5021
IA	Seltz Sales Cedar Rapids	319-393-1114
KS	Advanced Tech Sales Overland Pk	913-642-6675
MD	Professional Reps Columbia	301-992-7460
MA	CompRep Assoc Inc Westwood	617-329-3454
MI	J L Montgomery Assoc Southfield	313-358-2616
MN	Robt W Marshall Co Mpls	612-929-0457
MO	Advanced Tech Sales St Louis	314-227-4448
NJ	PSA Inc Trevoise PA	215-245-0513
NY	S J Sales Assoc Inc Jamaica	718-291-3232
NY	Nycorn Inc 10 Adler Dr E Syracuse	315-437-8343
NC	Zucker Assoc Raleigh	919-782-8433
OH	Baehr, Greenleaf & Assoc Cleveland	216-221-9030
OR	Electronic Tech Sales Beaverton	503-641-5180
PA	Baehr, Greenleaf & Assoc Evans City	412-776-2151
TN	Interp Assoc Greeneville	615-639-3491
TX	Southern States Mktg Austin	512-452-9459
UT	Elcom SLC	801-485-7415
WA	Electronics Tech Sales Kirkland	206-827-8086
CUBIC	CORP 9333 BALBOA AV BOX 85587 SAN DIEGO CA 92138 TWX 910-335-2010	619-277-6780
	R GRAFTON EMP 4000 ENG 1000 OVER \$10,000K	
CUBIT	DIV PROTEUS INDUSTRIES 190 S WHISMAN RD MT VIEW CA 94041	415-962-8237
	J HEINER EMP 30 ENG 4	
CUESTA	SYSTEMS INC 3440 ROBERTO CT SAN LUIS OBISPO CA 93401	805-541-4160
	C DICKEY EMP 20 ENG 5 \$1,000-\$2,500K	
CULLIGAN	INTERNATIONAL ONE CULLIGAN PKWY NORTHBROOK IL 60062 TWX 910-686-0005	312-498-2000
	P OVERBECK EMP 650 ENG 50 OVER \$10,000K	
CUNNINGHAM	INDUSTRIES INC 102 LINCOLN AVE STAMFORD CT 06902	203-324-2942
	F CUNNINGHAM EMP 6 ENG 2 \$250-\$500K	
CURRENT	TECHNOLOGY INC BOX 5525 RICHARDSON TX 75080	214-238-5300
	P DIAMOND	
CURRY	ENGINEERING CO 5655 CAHUENGA BLVD N HOLLYWOOD CA 91601	213-877-1786
	R CURRY EMP 20 ENG 5 \$250-\$500K	
CURTIS	ELECTRO DEVICES INC BOX 4090 MTN VIEW CA 94040	415-964-3846
	P CURTIS EMP 10 ENG 2 \$500-\$1,000K	
CA	Ham Radio Outlet Burlingame	415-342-5757
CA	Henry Radio LA	213-820-1234
FL	Metretech Inc Melbourne	305-259-9700
IL	Leavitt Communications Skokie	312-982-0220
IL	Communications Assoc Joliet	815-744-6444

KS	Americall Corp Lenexa	913-541-9000
MD	Tessco Hunt Valley	301-628-5300
NY	Kiesub Corp Las Vegas	702-733-3888
NV	Audiovox Hauppauge	516-231-7750
PA	Jackrabbit Inc Bensalem	215-638-7555
TX	Carcom Ft Worth	817-332-3027
CURTIS	INDUSTRIES INC 7400 W DOUGLAS BOX 18699 MILWAUKEE WI 53218-0699 TWX 910-262-3035	414-354-1500
	P MCDONNELL EMP 165 ENG 10	
AZ	Memo Sales Scottsdale	602-952-2254
AR	Automation Supplies Hot Springs	501-525-4588
CA	Gagner Toomey Assoc Santa Clara	408-244-2200
CA	Elco Electronics Garden Grove	714-891-4621
CO	Omega Ltd Englewood	303-762-1921
FL	Lawrence Assoc Boca Raton	305-386-7373
GA	K & E Assoc Huntsville	205-883-9720
IL	Richmar Elctns Downers Grove	312-968-0118
MD	Naudain Assoc Southern Woodbine	301-442-2270
MI	W R Hummon & Assoc Farmington Hills	313-474-0661
MN	Holmgren Assoc Spring Lake Park	612-786-7641
MO	Deitron Co St Louis	314-869-4779
NH	Sales Engineering Co Salem	603-893-5521
NJ	Naudain Assoc Marlton	609-235-1801
NJ	Dyno Rep Manville	201-685-0135
NY	Apex Assoc Rochester	716-254-6050
OH	Nationwide Comp Reps Willoughby	216-946-3226
SC	Crossroads Elctn Assoc Spartanburg	803-573-5176
WA	Electronic Mktg Group Redmond	206-882-0962
FR	Chartwell Electronics Markham ON	416-477-0400
AL	MG Elect & Equip Birmingham	205-328-4525
AL	Southern Controls Montgomery	205-277-5030
AZ	Electro Comps Dist Phoenix	602-258-2665
AR	Electra Inc El Dorado	501-862-4901
CA	Master Dist LA	213-452-1229
CA	Rose Elect San Jose	408-263-9700
CA	Allied Elect Hayward	415-487-5250
CA	Control Design San Carlos	415-592-4806
CO	Integrated Elect Denver	303-292-6121
CT	Electrical Supplies Hartford	203-527-7111
CT	W M Entrps Fairfield	203-333-0129
FL	AA Electric Lakeland	813-665-6941
FL	Electronic Equip Co Miami	305-871-3500
GA	AA Electric Norcross	404-449-8670
GA	A C Equipment Atlanta	404-451-2747
IL	Electro-Kinetics Wood Dale	312-595-6700
IL	Ohm Elect Palatine	312-359-5500
IN	Graham Elect Ft Wayne	219-423-3422
IN	Control Design Indpls	317-788-4559
IN	Panel Parts Mishawaka	219-259-0026
IA	Ramco Co Des Moines	515-225-6933
IA	Krenneman & Assoc Marion	319-377-6394
KS	Kornfield-Thorp Elec KC	913-321-7070
KY	Peerless Elect Louisville	502-637-7677
KY	American Elect Lexington	606-296-2611
LA	Ralph's Ind Elect Lafayette	318-234-4507
LA	MG Elect Harahan	504-733-0070
ME	The Leen Co Portland	207-774-6266
ME	Rockingham Elect Portland	207-772-4614
MD	DEANCO Gaithersburg	301-948-5444
MA	Brownell Electro Woburn	617-935-7820
MA	Control Engrg West Springfield	413-781-1330
MI	Fitzpatrick Elec Sply Muskegon	616-722-6621
MI	Madison Elec Detroit	313-875-1560
MI	McNaughton-McKay Elec Madison Hts	313-399-7500
MN	Control Design Mpls	612-721-1628
MO	Control Design St Louis	314-426-3150
MO	Lcomp Maryland Hts	314-291-6200
NH	Components North Manchester	603-624-4661
NJ	Powell Electronics Englewood	201-894-0800
NJ	General Components Berlin	609-768-6767
NY	Adironack Elect Albany	518-456-0203
NY	Electronic Equip Co Hempstead	516-538-5510
NY	Masline Elect Rochester	716-546-5373
NY	Summit Dist Buffalo	716-884-3450
NC	Hammond Elect Greensboro	919-275-6391
NC	Dixie Elec Charlotte	704-377-5413
OH	Akron Elect Sply Akron	216-762-8818
OH	Esco Inc Dayton	513-226-1133
OH	Girkins Elec Toledo	419-243-9238
OH	Hughes Peters Cincinnati	513-351-2000
OH	McJunkin Corp Columbus	614-294-3711
OK	T J Ray Co Tulsa	918-627-1515
PA	CAM/RPC Ind Elect Pittsburgh	412-782-3770
PA	Lindley Elec Phila	215-329-7005
PA	Advacom Inc McKean	814-476-7774
PA	Control Design Malvern	215-296-0150
SC	Dixie Radio Supply Columbia	803-779-5332
SC	Hammond Elect Greenville	803-233-4121
TX	Allied Elect Ft Worth	817-336-5401
TX	Altair Co Houston	713-462-3029
TX	Control Design Dallas	214-358-1441
UT	Kimball Elect SLC	801-328-2075
VA	Sterling Elect Richmond	804-228-2190
WA	C B Parsons Co Kent	206-762-7373
WI	Marsh Elect Milw	414-475-6000
WI	Control Design New Berlin	414-784-1015
WI	AA Electric Green Bay	414-499-0258
CURTIS	INSTRUMENTS INC 200 KISCO AVE MT KISCO NY 10549 TWX 11710-571-2163	914-666-2971
	R MCDONALD EMP 85 ENG 7	
	ADV PGS 224,264	
CA	Texel Engrg Box 2520 Seal Beach	213-596-9411
CA	Polach & Bensinger Burlingame	415-697-2525
CO	Grifco Littleton	303-795-1989
FL	NSL Assoc Longwood	305-629-5226
IL	Bierhaus Sales La Grange Pk	312-354-5100
IN	Akron Sales Fort Wayne	219-747-3650
MD	Mid States Mktg Baltimore	301-583-8252
MA	Harmon Assoc Brookline	617-232-6687
MN	S J Collins & Assoc Minnetonka	612-933-7661
NY	Wincor Elctn Sales Manhasset	516-627-9474

OH	K F Naurez Co Chagrin Falls	216-338-8400
OR	Evergreen Mktg Beaverton	503-643-8000
PA	QRM Inc Havertown	215-449-3400
TX	E-Tron Inc Colleyville	817-498-8920
VA	Mid States Mktg Springfield	703-569-2700
WA	Evergreen Mktg Seattle	206-633-3130
WI	Bierhaus Sales Milwaukee	414-963-0300
FR	Tekelec Aironics Sevrer	626-0202
FR	Tekelec Aironic GmbH Munchen	089-59-4620
FR	Curtis Instr UK Ltd Northampton	011-44-604-2975
CUSHCRAFT	CORP BOX 4680 MANCHESTER NH 03108	
	TXW 953050	603-627-7870
	G WHITEHOUSE EMP 100 ENG 3 \$5,000-\$10,000K	
CUSHMAN	ELECTRONICS INC 1525 ATTEBERRY LA SAN JOSE CA 95131 TWX 910-338-0556	408-268-8100
	J VENI EMP 170 ENG 13 OVER \$10,000K	
AZ	Kennedy Engrg Co Mesa	602-835-5200
CA	Kennedy Engrg Co Santa Fe Springs	213-868-9900
CA	Kennedy Engrg Co Fremont	415-490-3500
CO	K-C Marketers Denver	303-733-5550
FL	EME 3 Inc Melbourne	305-259-2720
IL	Reshal Assoc Schaumburg	312-397-9000
KS	Harold J Curry Sales Overland Pk	913-492-6200
MD	All American Assoc Hunt Valley	301-628-9300
MA	Montague & Murray No Scituate	617-545-5500
MI	Reshal Assoc Houghton Lake	517-366-8700
NY	Leonard D Allen Inc Syracuse	315-437-8300
NY	Leonard D Allen Inc Buffalo	716-837-1915
NC	Consumer Mktg Pineville	704-542-0370
OH	G-Tec Aurora	216-562-9870
PA	Barnhill Bros Lancaster	717-393-7770
TX	Reppcom Inc San Antonio	512-494-6862
WA	Arva-Hudson Inc Bellevue	206-455-0770
FR	Tele-Radio Systems Ltd Woodridge ON	416-851-2230
CUSTOM	COIL & TRANSFORMER CO 2900 NEWARK RD ZANESVILLE OH 43701	614-452-6970
	D YOUNG EMP 80 ENG 3 \$500-\$1,000K	
CUSTOM	COILS INC BOX 338 ALCESTER SD 57001	605-934-2400
	R LARSON EMP 140 ENG 3 \$1,000-\$2,500K	
CUSTOM	COMPONENTS INC BOX 334 LEBANON NJ 08833 TWX 821399	201-534-6150
	C BLAINE EMP 20 ENG 4 \$1,000-\$2,500K	
CUSTOM	CONNECTOR CORP 1738 E 30 ST CLEVELAND OH 44114	216-241-1670
	L WEIDER EMP 24 ENG 2 \$1,000-\$2,500K	
CUSTOM	CONTROL SENSORS INC 2111 PLUMMER ST CHATSWORTH CA 91311 TWX 4720114	818-341-4610
	B CRISSEY EMP 12 OVER \$10,000K	
AK	Alaska Instrument Co Anchorage	561-22-2200
AZ	Aldrich Ind Conits Scottsdale	495-85-8500
AR	Air & Hyd Equip Chattanooga	615-629-2550
CA	Hydraulic Controls Emeryville	658-8300
FL	System Comps Corp Cocoa Bch	783-10-1000
GA	Air & Hydraulics Engrg Atlanta	458-31-0000
IL	Fluid-Scope Addison	628-23-0000
IN	Fluid-Scope Indpls	897-30-0000
IA	James H Laas Co Bettendorf	359-44-0000
KS	Myers-Aubrey Co Shawnee Mission	432-80-0000
LA	Lu Mac Inc Baton Rouge	924-73-0000
MD	Rhodes Controls Baltimore	301-597-0000
MA	Lindco Inc Worcester	853-28-0000
MI	J H Bennett & Co Novi	476-87-0000
MI	Hydra-Powr Inc Mpls	559-29-0000
MO	Myers-Aubrey Co St Louis	569-15-0000
NJ	Progressive Hydraulics Midland Pk	447-44-0000
NY	J V Tripoli & Co Buffalo	874-29-0000
NY	Trol-Mation Inc Syracuse	437-41-0000
NC	General Control Eqpt Co Charlotte	588-04-0000
OH	Aardvark Cont Equip Cleveland Hts	932-07-0000
OK	Myers-Aubrey Co Tulsa	622-35-0000
OR	Gassner Inc Portland	246-58-0000
PA	Winco Fluid Power Willow Grove	657-94-0000
TN	Air & Hydraulic Equip Co Chattanooga	629-25-0000
TX	Puffer-Sweien Stafford	240-20-0000
UT	Control Systems SLC	364-64-0000
VA	Advance Control Equip Richmond	807-270-7100
WA	Hydraulic Components Co Bellevue	747-09-0000
WV	Instrument Services Inc Charleston	345-03-0000
WI	D E Riley Corp New Berlin	786-12-0000
FR	Telematic Controls Ltd Edmonton AB	436-05-0000
FR	Willer Engrg Montreal PQ	748-61-0000
FR	Willer Engrg Willowdale ON	499-44-0000
DISTRIBUTORS		
CO	Mountain States Denver	303-573-7100
CUSTOM	ELECTRONICS INC BROWNE ST ONEONTA NY 13820	
	TXW 510-241-8292	607-432-3880
	D HATHAWAY EMP 100 ENG 10 \$5,000-\$10,000K	
CA	Masco Electronics Brea	714-529-0860
CA	Richards Assoc San Jose	408-297-3000
FL	Custom Electronics Boca Raton	305-487-7550
IL	Rozner Sales Chicago	312-283-0000
MD	Nelson Assoc Ellicott City	301-747-7880
MA	Musello Assoc Stow	617-369-5900
TX	Custom Electronics Houston	713-686-4870

CUSTOM INTEGRATED CIRCUITS
5353 WAZYATA BLVD MINNEAPOLIS
MN 55418 612-542-1115
EMP 9 ENG 4 \$500-\$1,000K

CUSTOM MICRO SYSTEMS INC
BOX 9472 LIVONIA MI 48151 313-559-5397
F GEHRKE EMP 4 ENG 2
MI Gehrke & Assoc Southfield 313-559-5363

CUSTOM MOS ARRAYS INC 211
TOPAZ ST MILPITAS CA 95035
TWX 910-338-2304 408-946-9111
H DE ROULE EMP 25 ENG 14 \$5,000-\$10,000K
AZ TC Elctn Sales Scottsdale 612-994-5153
CA Mouthrop Sales Pleasanton 415-463-0450
CA Relcom Inc Agoura Hills 818-991-4221
FL Donato & Assoc Orlando 305-352-0727
MD Arbotek Assoc Towson 301-825-0775
MA The Orion Group Wakefield 617-245-5220
MN S R Comp Sales Mpls 612-559-3090
OR Earl & Brown Portland 503-245-2283

DISTRIBUTORS
A Capsco Sunnyvale 408-734-3020

CUSTOM SCIENTIFIC INSTRUMENTS INC
13 WING DR CEDAR KNOLLS
NJ 07927 201-538-8500
H BULTMAN JR EMP 27 ENG 3 \$1,000-\$2,500K

CUTECH INC 2280 AMBER DR
HATFIELD PA 19440
TWX 510-661-65-20 215-822-8900
F JABLONSKY EMP 50 ENG 5
AZ Industrial Chem Specialties
Phoenix 602-877-2067
CA Metro Dynamics Corp Fullerton 714-738-8310
FL Christopher Group Vero Beach 305-569-6060
LA Ed Maloney Co Marietta 404-973-6420
L Reynolds & Co Arlington Hts 312-640-9495
MN Midwest Circuit Supply
Minnetonka 612-935-8872
NY Richard Feagins Co Utica 315-733-7236

DISTRIBUTORS
MA Cesco Burlington 617-272-7849
TX Altan Dallas 214-243-6216
FR EMX Toronto ON 416-889-1204

JVC PRODUCTS INC BOX 1886
ROCHESTER NY 14603 TWX 978269 716-458-2550
C WHITMAN EMP 150 ENG 15 OVER \$10,000K
A CVC Products Sunnyvale 408-744-0410
A CVC Products San Gabriel 213-256-9059
A CVC Products Atlanta 404-952-8006
A CVC Products Downers Grove 312-969-6111
A CVC Products Woburn 617-938-1781
A CVC Products Wyckoff 201-891-8535
A CVC Products Cincinnati 513-561-2854
A CVC Products Austin 512-451-3599

VD INC 185 NEW BOSTON ST
WOBRUN MA 01801 TWX 951680 617-933-9243
S PEAVER EMP 50 ENG 20 \$5,000-\$10,000K

WINDUSTRIES 130 JAMES WAY
SOUTHAMPTON PA 18966
TWX 83-1470 215-355-7080
P JOHNSON EMP 400 ENG 20
A Spec-Rep Marina Del Rey 213-827-7767
A Mouthrop Sales Pleasanton 415-846-0550
T A & M Electro Guilford 203-453-1612
L Elect Mktg Corp Casselberry 305-399-7070
G Mcl Cole Co Chicago 312-774-3535
S France Enrtps Greenfield 317-462-6098
ID Muncy Sales Assoc Pikesville 301-484-6376
A A & M Elctns Needham 617-444-8170
IN Schank Elect Mktg Inc Indpls 317-842-6204
J R Marshall Co Mpls 612-929-6047
J J S Wurts Gladwyne 215-649-6300
Y Winch Sales Assoc E Brunswick 201-828-4615
Y Franklin Sales Corp Pittsford 716-248-8251
Y DHR Mktg Inc Raleigh 919-876-5450
Y Lamons Sales Greenville 615-639-8711
X Kruvand Assoc Dallas 214-437-3355
VA Electronic Mktg Group Bellevue 206-882-0962
R Pipe Thompson Ltd Islington ON 416-236-2355

DISTRIBUTORS
AL Electro-Wise Comps Huntsville 205-830-4764
A Pyramid Elect Santa Clara 408-727-9810
A El-Cor Cerritos 213-404-2961
A El-Cor San Diego 614-578-0900
A Electronic Switches LA 213-660-1310
A Denver Wintronic Denver 303-934-2406
O Wire Tech Inc Tavares 904-343-1676
L Repton Elect Arlington Hts 312-593-7070
L Hawk Elect Wheeling 815-459-4139
V Sub-Sem Inc Crystal Lake 317-634-8202
V Graham Elect Indpls 301-937-8800
ID Patrick Sales Beltsville 617-769-9500
A Emtel Electronics Norwood 617-880-2200
A Mutron Corp Brockton 617-821-1500
A Impact Sales Canton 800-346-5144
IN Digi-Key Corp Thief River Falls 919-722-9131
C Kirkman Elect Winston-Salem 919-248-1636
H REH Electra Solon 313-836-8633
J Argent Indus Englewood 412-821-5565
A Ali-Electra Pittsburgh 206-575-1050
VA Pacific Elect Seattle

XC CORP 2852 ALTON AVE IRVINE
CA 92714 714-660-1801

CYBERNETIC MICRO SYSTEMS INC
BOX 3000 SAN GREGORIO
CA 94074 TWX 171-135 415-726-3000
K MOTY EMP 22 ENG 3

CYBERPAK CO BOX 38 BROOKFIELD
IL 60513 312-387-0802
R WEINBRENNER EMP 4 ENG 2 \$250-\$500K

CYBERSYSTEMS INC 7540 S
MEMORIAL PKWY HUNTSVILLE
AL 35802 205-883-4410
M LONG EMP 20 ENG 6 \$500-\$1,000K

CYCLO-TRONICS INC 1345
N OLD RAND RD WAUCONDA
IL 60084 312-526-0800
W BOKHOVEN EMP 10 ENG 1 \$500-\$1,000K

CYPRESS SEMICONDUCTOR 3901
N FIRST ST SAN JOSE CA 95134
TWX 910-997-0753 408-943-2600

CYTEC CORP 107 N WASHINGTON ST
ROCHESTER NY 14445 716-381-4740
H TURNER EMP 10 ENG 3 \$500-\$1,000K
NY Kapital Instr Sls Frankfurt 315-894-4225

DAC (DEVELOPMENT ASSOC'S CONTROLS)
6390 ROSE LANE CARPINTERIA
CA 93013 TWX 910-336-1115 805-684-8307
E VERNON EMP 50 ENG 5 \$2,500-\$5,000K
CO Circuit Supplies Broomfield 303-469-5317
FL Photo Chem Sys Casselberry 305-830-6313
GA Photo Chem Sys Roswell 404-993-1738
IL W E Watt & Assoc Barrington 312-382-5533
MA D Morelli Randolph 617-961-1440
MN Fine Line Sales Co Eden Prairie 612-934-9334
MO Del Tech Assoc Springfield 417-881-3667
OR Chemithon Corp Portland 503-232-5554
TX Oliver Sales Co Dallas 214-231-1522
WA Chemithon Corp Seattle 206-937-9954

DAGE-MTI INC 208 WABASH ST
MICHIGAN CITY IN 46360 219-872-5514
P THOMAS EMP 46 ENG 6 \$2,500-\$5,000K
CA Dage-MTI Box 1133 Morganhill 408-779-0011
MI DAGE-MTI Warren 313-774-3100
NY Dage-MTI Box 1253 Lake Grove 516-585-1083
VA Dage-MTI 1109 Essex Richmond 804-282-5664

DAHLSTROM MFG CO INC 443
BUFFALO ST JAMESTOWN NY 14701
TWX 648886 716-487-0111
S MARCHIANDO EMP 300 ENG 10 OVER \$10,000K
FL McKnight Assoc Dunedin 813-733-5860
IL Al Kukla & Assoc Rock Island 309-788-3202
MD Bard Anderson & Assoc Towson 301-592-5188
MA Schutter Young Corp Beverly 617-922-6121
MI Campbell Metal Parts Inc Troy 313-649-2323
PA J A Schultz Co Pittsburgh 412-761-1124

DAICO INDUSTRIES INC 2351
E DEL AMO BLVD COMPTON
CA 90220 TWX 910-346-6741 213-631-1143
J ADAMSON EMP 180 ENG 9 OVER \$10,000K
AZ Tech Tech Sales Scottsdale 602-948-4404
CA Cain-White & Co Los Altos 415-948-6553
CA Midwin & Olifson Tarzana 213-996-9093
FL Spartech Assoc Palm Bay 305-727-8045
GA Spartech Assoc Norcross 404-432-3644
IL Cain-Forlaw Co Mt Prospect 312-253-3578
ME Micronics Assoc Ogunquit 617-933-2121
MD Eastern Instrumentation
Burlingtonville 301-384-8500
NJ Technical Mktg Assoc Hackensack 201-342-4008
OH Cain-Forlaw Co Lancaster 614-654-4800
PA SWR Assoc Newtown Square 215-353-6711
TX McDonald Engrg Assoc Dallas 817-429-4272

DAWA CRYSTAL CORP 10901
GRANADA LA OVERLAND PARK
KS 66211 913-491-6825
K EDWARDS
AL Electro-Wise Inc Huntsville 205-830-4764
AZ Desert West Tech Sales Phoenix 602-244-0735
CA Daiwa Crystal Corp Inglewood 213-645-9825
CA Baytech Sales Santa Clara 408-730-3009
CA Great Amer Rep Co Santa Ana 714-954-0371
CO Technology Mktg Assoc Parker 303-841-3435
FL D J Ellis & Assoc Maitland 305-736-7180
IL Dombrow Co Mt Prospect 312-253-3326
IN Advanced Components Sls Indpls 317-545-6441
IA Barnes Midwest Sales Cedar
Rapids 319-393-9790
KS Barnes Midwest Sales Overland Pk 913-469-9688
MA Ad Systems Sales Lexington 617-861-6370
MN Barnes Sales Assoc Chanhassen 612-934-2907
NC RFS Mktg Inc Cary 919-469-4150
OH Engineered Indus Sales
Cleveland Hts 216-371-5340
OH Meritech Sales Corp Beaverton 503-644-0304
TX Technology Sales Co Richardson 214-437-5881
UT Technology Mktg Assoc SLC 801-483-1009
WA Meritech Sales Corp Bellevue 206-454-4600

DISTRIBUTORS
CA Ryno Electronics Orange 714-637-0200
CA Ryno Electronics San Diego 619-453-8430
CA Capacitors Unilted San Jose 408-946-7676
IL NEP Electronics Chicago 312-625-8400
NJ Vantronics Kenilworth 201-272-9262
UT Standard Supply Co SLC 801-486-3371
WA Edco Sales Edmonds 206-776-8922
WI NEP Electronics New Berlin 414-785-9100
FR Future Electronics Pte Claire PQ 514-694-7710

DALE ELECTRONICS INC COLUMBUS DIV
2064 12 AVE BOX 609 COLUMBUS
NE 68601 TWX 910-626-8314 402-564-3131
D SNEJAL EMP 4000 ENG 163 OVER \$10,000K
ADV PGS 126,228,304,402,403,411,503

AL JWL Assoc Huntsville 205-883-1712
AZ Dale Electronics Tempe 602-966-0291
CA J S Heaton Co Redwood City 415-367-9000
CA Reed Elctns Mktg Los Alamitos 213-598-6676
CA Reed Elctns Mktg San Diego 619-452-1456
CO Dale Electronics Loveland 303-667-7500
FL Graham Assoc Lake Park 305-622-4049
FL Graham Assoc Winter Garden 305-656-9369
FL Graham Assoc Melbourne 305-773-6631
GA JWL Assoc Marietta 404-429-8010
ID LD Electronics Boise 208-343-2741
IL Industrial Repts Inc Chicago 312-967-8430
IN Scott Electronics Indpls 317-897-9976
IN Scott Electronics Fort Wayne 219-484-7865
KS Dale Electronics Shawnee Mission 913-432-9140
MD Tri-Mark Inc Glen Burnie 301-761-6000
MA Howard Jappe Co Wakefield 617-245-9359
MI Jay Mktg Assoc Plymouth 313-459-1200
MN Merrill Franklin Co Bloomington 612-854-9446
MO Industrial Repts Inc St Louis 314-227-7401
NJ Kaelber & Mack Inc Fair Lawn 201-797-7782
NJ Kaelber & Mack Inc Commack 516-499-2924
NY Dale Electronics Ithaca 607-272-6212
NC JWL Assoc Raleigh 919-787-4826
NC JWL Assoc Pineville 704-541-5750
OH Scott Electronics Cleveland 216-473-5050
OH Scott Electronics Dayton 513-294-0539
OH Scott Electronics Reynoldsburg 614-863-1281
OH Scott Electronics Cincinnati 513-791-2513
OR LD Elctns Beaverton 503-649-6177
PA TMI Horsham 215-441-4300
PA Scott Electronics Pittsburgh 412-963-6116
TX Edward F Aymond Co Dallas 214-826-7620
TX Edw F Aymond Co Houston 713-880-8229
TX Edw F Aymond Co San Antonio 512-366-1526
WA L D Electronics Snohomish 206-568-0511
WA L D Electronics Spokane 509-922-4883
WI Industrial Repts Inc Milwaukee 414-259-0965
FR Bach-Simpson Ltd London, ON 519-452-3300

DISTRIBUTORS
AL Hamilton/Avnet Huntsville 205-837-7210
AZ Hamilton/Avnet Tempe 602-231-5100
AZ Shelley Elect Tempe 602-894-2058
AZ T T I Inc Phoenix 602-861-0222
AZ Acacia Div Univair Tempe 602-894-2874
CA Acacia Div Univair Irvine 713-971-2428
CA Avnet Elect Costa Mesa 714-754-6021
CA Hamilton/Avnet Sunnyvale 408-734-3358
CA Hamilton/Avnet San Diego 619-571-7536
CA Shelley Elect Chatsworth 818-998-3333
CA Shelley Elect San Diego 619-453-7133
CA Hamilton/Avnet Culver City 213-558-2682
CA Hamilton Electro Sales
Costa Mesa 714-641-4100
CA Acacia Div Univair Sunnyvale 408-745-7200
CA TTI-West Chatsworth 818-709-1010
CA Avnet Elect Chatsworth 818-700-6264
CA Hamilton/Avnet Sacramento 916-920-5531
CA Inductor Supply Inc Huntington 714-891-4524
CA Hamilton/Avnet Chatsworth 818-700-6534
CA Acacia Div Univair San Diego 619-565-4365
CA Shelley Elect San Jose 408-942-9111
CA T T I Inc San Jose 408-943-9155
CA Hamilton/Avnet Ontario 714-989-8816
CA Acacia Div Univair Rancho Cordova 916-638-1861
CA Hamilton Electro Sales Gardena 213-217-6750
CO Hamilton/Avnet Englewood 303-740-1020
CO Newark Electronics Denver 303-757-3351
CO Waco Elect Commerce City 303-289-4743
CO Shelley Elect Boulder 303-442-2718
CO Acacia Div Univair Lakewood 303-232-2882
CT Electro/Comp Stratford 203-375-5811
CT Hamilton/Avnet Danbury 203-797-2856
FL Hamilton/Avnet Ft Lauderdale 305-979-5211
FL Legri S Resistor Palm Bch Gdns 305-845-7101
FL Hamilton/Avnet St Petersburg 813-576-3930
FL TTI Inc Orlando 305-859-1000
FL Hamilton/Avnet Winter Park 305-628-3888
FL Shelley Electronics Tampa 813-884-0946
GA Hamilton/Avnet Norcross 404-447-7504
GA Specialty Dist Co Atlanta 404-873-2521
GA T T I Inc Norcross 404-662-0911
IL Bell Indus Elct Grove Vlg 312-640-1910
IL Hamilton/Avnet Bensenville 312-860-8558
IL Newark Elect Chicago 312-784-5100
IL Ohm Elect Palatine 312-359-5500
IL Lodan Electronics Arlington Hts 813-586-2851
IL Pioneer-Standard Elk Grove Vlg 312-437-9680
IN Bell Industries Ft Wayne 219-423-3422
IN Bell Industries Indpls 317-634-8202
IN Hamilton/Avnet Carmel 317-844-9333
IN Pioneer-Standard Indpls 317-849-7300
IA Deeco Cedar Rapids 319-365-7551
IA Hamilton/Avnet Cedar Rapids 314-362-4757
KS Hamilton/Avnet Overland Pk 913-541-7922
MD Hamilton/Avnet Columbia 301-995-3525
MD Resco Baltimore 301-529-0500
MD Resco Beltsville 301-937-9100
MD Pioneer-Technologies
Gaithersburg 301-921-0660
MA A W Mayer Co Billerica 617-229-2255
MA Hamilton/Avnet Peabody 617-532-3701
MA Sterling Elect Woburn 617-938-6200
MA T T I Woburn 617-938-8800
MA Pioneer-Standard Lexington 617-861-9200
MI Hamilton/Avnet Livonia 313-522-4700
MI Newark Elect Oak Pk 313-967-0600
MI R-S Elect Livonia 313-525-1155
MI S-F Elect Supply Grand Rapids 616-459-0216
MI Repton Elect Livonia 313-525-2700
MI Hamilton/Avnet Grand Rapids 616-243-8805
MI Pioneer-Standard Livonia 313-525-1800
MN Stark Elect Mpls 612-332-1325
MN Hamilton/Avnet Minnetonka 612-932-0674

MN	Pioneer-Standard Minnetonka	612-935-5444
MO	Hamilton/Avnet Earth City	314-344-1250
NH	Hamilton/Avnet Manchester	603-524-9400
NJ	Federated Purchaser Kenilworth	201-272-0505
NJ	GSI Elect Cranford	201-272-6400
NJ	Hamilton/Avnet Fairfield	201-575-3490
NJ	Hamilton/Avnet Cherry Hill	609-424-0117
NM	Hamilton/Avnet Albuquerque	505-765-1500
NY	ASI Elect Endwell	607-754-3823
NY	Fairmont Elect Hauppauge	516-231-3313
NY	Hamilton/Avnet Rochester	716-475-9130
NY	Hamilton/Avnet E Syracuse	315-437-2641
NY	Rome Elect Rome	315-337-5400
NY	Sicom Elect Rochester	716-328-3230
NY	Summit Distr Buffalo	716-884-3450
NY	Command Elect Farmingdale	516-293-1212
NY	L & S Elect Valley Stream	516-561-2474
NY	March Elect W Hempstead	516-486-6511
NY	T I Inc Ronkonkoma	516-737-2000
NY	Hamilton/Avnet Hauppauge	516-231-9800
NY	Pioneer-Standard Fairport	716-381-0770
NY	Pioneer-Standard Woodbury	516-921-8700
NY	Shelley Elect Bohemia	516-567-7751
NC	RESCO Raleigh	919-781-5700
NC	Kirkman Elect Winston-Salem	919-722-9131
NC	Hamilton/Avnet Raleigh	919-878-0819
OH	Hamilton/Avnet Cleve	216-831-3500
OH	Hamilton/Avnet Dayton	513-439-6700
OH	Pioneer Standard Dayton	513-236-9900
OH	Pioneer Standard Cleve	216-587-3600
OH	Hamilton/Avnet Westerville	614-882-7004
OH	Stotts-Friedman Co Dayton	513-298-5555
OK	Radio Inc Tulsa	918-587-9123
OR	Hamilton/Avnet Lake Oswego	503-635-8831
OR	Acacia Div Univier Beaverton	503-646-3377
OR	Radar Electric Portland	503-232-3404
PA	Advacom McKean	814-476-7774
PA	CAM/RPC Pittsburgh	412-782-3770
PA	H & R Electronics Phila	215-426-1700
PA	E C Inc York	717-846-5334
PA	Hamilton/Avnet Pittsburgh	412-281-4150
PA	Pioneer-Standard Pittsburgh	412-782-2300
PA	Pioneer-Technologies Horsham	215-674-4000
PA	Hamilton/Avnet Pittsburgh	412-281-4150
TX	Hamilton/Avnet Austin	512-837-8911
TX	Hamilton/Avnet Houston	713-975-3516
TX	Lenert Co Houston	713-225-1465
TX	Sterling Elect Dallas	214-243-1600
TX	Sterling Elect Houston	713-627-9800
TX	T T I Inc Dallas/Ft Worth	817-831-0441
TX	Hamilton/Avnet Irving	214-659-4100
TX	Pioneer-Standard Austin	512-835-4000
TX	Pioneer-Standard Dallas	214-386-7300
TX	Pioneer-Standard Houston	713-988-5555
UT	Hamilton/Avnet SLC	801-972-2800
WA	Hamilton/Avnet Bellevue	206-453-5842
WA	Radar Elect Co Seattle	206-282-2511
WI	Hamilton/Avnet New Berlin	414-784-4510
WI	Marsh Elect Inc Milwaukee	414-475-6000

DALE ELECTRONICS INC EL PASO DIV
BOX 26728 EL PASO TX 79926.....915-592-3253
D WAGENKNECHT
ADV PGS 126,228,304,402,403,411,503

Refer to Columbus Location for Representative
& Distributor Listing

DALE ELECTRONICS INC NORFOLK DIV
2300 RIVERSIDE BLVD BOX 74
NORFOLK NE 68701
TXW 910-623-0163.....402-371-0080
J FILIPS
ADV PGS 126,228,304,402,403,411,503

Refer to Columbus Location for Representative
& Distributor Listing.

DALE ELECTRONICS INC TEMPE DIV
1155 W 23 ST TEMPE AZ 85282.....602-967-7875
M BROWN
ADV PGS 126,228,304,402,403,411,503

Refer to Columbus Location for Representative
& Distributor Listing.

DALE ELECTRONICS INC YANKTON DIV
EAST HWY 50 BOX 180 YANKTON
SD 57078.....605-665-9301
J ELLIOT
ADV PGS 126,228,304,402,403,411,503

Refer to Columbus Location for Representative
& Distributor Listing.

DALE ELECTRONICS GMBH BENZSTRASSE
28 PUCHHEIM WEST GERMANY
TXW 05-212950.....089/80960
M PARK

DALE ELECTRONICS LTD 18
HOWDEN RD SCARBOROUGH
ON M1R 3E6 TXW 06-963694.....416-759-5631
R BADAWY EMP 50 ENG 1 \$1,000-\$2,500K

FR	Bach-Simpson Ltd London ON	519-452-3300
FR	Bach-Simpson Ltd Montreal PQ	514-331-6817

DISTRIBUTORS

FR	Carsten Elctns Ltd Scarborough ON	416-495-9999
FR	Electro Sonic Inc Willowdale ON	416-494-1666
FR	Hamilton/Avnet Intl Mississauga ON	416-677-7432
FR	Prelco Electronics Montreal PQ	514-389-8051
FR	Future Elect Pte Claire PQ	514-694-7710
FR	Intek Electronics Vancouver BC	604-324-6831
FR	Future Electronics Calgary AB	403-235-5325
FR	Hamilton/Avnet Intl Calgary AB	403-230-3586
FR	Future Electronics Edmonton AB	403-438-2858
FR	Hamilton/Avnet Intl Burnaby BC	604-437-6667
FR	Future Electronics Vancouver BC	604-438-5545
FR	Future Electronics Winnipeg MB	204-339-0554
FR	Future Electronics Downsview ON	416-638-4771
FR	Prelco Elect Ltd Mississauga ON	416-678-0401

FR	Hamilton/Avnet Intl Nepean ON	613-226-1700
FR	Carsten Elect Ltd Ottawa ON	613-729-5138
FR	Future Electronics Ottawa ON	613-820-8313
FR	Prelco Electronics Nepean ON	613-726-1800
FR	Carsten Elect Ltd St Laurent PQ	514-334-8321
FR	Hamilton/Avnet Intl St Laurent PQ	514-335-1000

DALLAS SEMICONDUCTOR CORP
4350 BELTWOOD PKWY DALLAS
TX 75244 TXW 650-244-1669.....214-450-0400
P JOINER EMP 100 ENG 50 OVER \$10,000K

AZ	Dallas Semiconductor Mesa	602-834-4986
CA	Dallas Semiconductor Cupertino	408-973-7850
IN	Dallas Semiconductor Carmel	317-844-5044
NJ	Dallas Semiconductor Marlton	609-596-7500

DAMON/ELECTRONICS DIV 80
WILSON WAY WESTWOOD MA 02090
TXW 710-325-6916.....617-329-2460
E DOHERTY EMP 75 ENG 10 OVER \$10,000K

AZ	Sanford Sales Assoc Phoenix	602-957-3570
CA	Jewett Co N Hollywood	213-789-8103
CA	Walman Assoc Palo Alto	415-961-4100
FL	Reppom Melbourne	305-254-1877
MA	Del Tech Sales Waltham	617-894-4550
PA	Stemler Assoc Balt Md	301-944-8262
TX	El Tec Sales Ft Worth	817-268-2896
FR	Multiparts Corp New York	212-944-4370

DANAVOX INC COMPONENTS DIV
6400 FLYING CLOUD DR
EDEN PRAIRIE MN 55344
TXW 4940282.....612-941-0690
M DANTOFF EMP 85 ENG 4 \$5,000-\$10,000K

DANIELS INC C R 3451 ELLICOTT
CTR DR ELLICOTT CITY MD 21043
TXW 710-862-9055.....301-461-5100
P AMATUCCI EMP 450 ENG 15 \$5,000-\$10,000K

DANIELS MFG CORP 6103 ANNO AVE
ORLANDO FL 32809 TXW 564321.....305-855-6161
T HOLDER EMP 130 ENG 15 \$5,000-\$10,000K
CA DMC-Western Sales Irvine.....714-660-1901
CT DMC-Northeastern Sales Orange.....203-799-2343
WA Pan Pacific Electronics Redmond.....206-881-7252

DISTRIBUTORS

CO	Columbine Fabricators Englewood	303-761-2121
TX	Wadco Fort Worth	817-284-4445

DAN-L INC 229 LAUREL RD
E NORTHPORT NY 11731.....516-757-8000
D ELTERMANN EMP 24 ENG 3 \$1,000-\$2,500K
NC Jake Rudisill Assoc 1225 Harding Pl Charlotte

DISTRIBUTORS

CA	Norstan Elect Santa Ana	800-854-8344
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DANTRONICS INC 3175 HAFNER CT
ST PAUL MN 55126.....612-484-2108
D DAVIDSON EMP 22 ENG 5 \$500-\$1,000K

DA/PRO RUBBER INC BOX 470175
TULSA OK 47147TXW 910
840-3068.....918-258-9386
W SANDERS EMP 200 ENG 2 \$5,000-\$10,000K

IL	Da/Pro Rubber 122 N York Elmhurst	
MA	Da/Pro Rubber 80 Boylston St Boston	
NC	Da/Pro Rubber 3551 N Sharon Amity Charlotte	
OH	Da/Pro Rubber 2077 Embury Pk Dayton	
OK	Da/Pro Rubber Box 470175 Tulsa	
PA	Da/Pro Rubber 2848 W Liberty Pittsburgh	
TX	Da/Pro Rubber 13500 Midway Dallas	

DASH, STRAUS & GOODHUE INC
593 MASS AVE BOXBOROUGH
MA 01719.....617-263-2662
I BARRY EMP 7 ENG 4 \$1,000-\$2,500K

DAISOFT DESIGN SYSTEMS INC
2550 NINTH ST BERKELEY
CA 94710.....415-486-0822
L WIEMAN EMP 10 ENG 4 \$500-\$1,000K

DATATYPE TECHNOLOGY INC
400 S DATE AVE ALHAMBRA
CA 91803 TXW 910-589-1607.....818-289-2477
G GRAVES EMP 35 ENG 4 \$1,000-\$2,500K

DATA CHECK CORP 9918 VIA PASAR
SAN DIEGO CA 92126
TXW 910-335-1596.....619-578-0101
B ACOSTA EMP 40 ENG 3 \$1,000-\$2,500K

DATACHRON INC 1150 STANFORD CT
ANAHEIM CA 92805.....714-751-2211
C DAVIS EMP 17 ENG 3 \$1,000-\$2,500K

DATACOM INC BOX 278 FORT
WALTON BEACH FL 32548
TXW 510-730-7693.....904-244-6121
T JAYE EMP 55 ENG 16

DATA COMM FOR BUSINESS INC
4 HENSON PL CHAMPAIGN
IL 61820.....217-352-3207
G GONDA

DATACON INC THE WIRE WRAPPERS
60 BLANCHARD RD BURLINGTON
MA 01803 TXW 951-651.....617-273-5800
S DAY EMP 400 ENG 8 OVER \$10,000K

AZ	Cristee-Meade Co Phoenix	602-867-6000
CA	datacon Chatsworth	213-700-0600
CO	Cristee Meade Co Lakewood	303-232-0287
FL	Datunon Inc Longwood	404-377-6371
IL	datacon Schaumburg	312-529-7690

IL	W G Controls Lisle	312-963-5911
IN	C C Electronics Indpls	317-255-1510
KS	Panatek Shawnee Mission	913-362-3341
MA	Anchor Engineering Newton Upper Falls	617-964-6201
MN	Loren Green Assoc Mnpls	612-571-1661
NY	Datcon Inc Bohemia	516-589-1100
PA	Hagy Assoc Newtown Sq	215-459-0501
TX	Lear Assoc Richardson	214-231-5331
WA	Gompf & Assoc Issaquah	206-392-8891
FR	RFM Electro Sales Mississauga ON	416-677-0021

DATA CONTROL LTD FIBEROPTICS DIV
BOX 51238 PALO ALTO CA 94303
TXW 412 944 1923.....415-494-1331
K HARA EMP 18 ENG 3 \$250-\$500K

DISTRIBUTORS

CA	Brandenburger & Co Palo Alto	856-8581
CA	DCL San Francisco	923-9556
CA	ABM Semiconductor San Jose	297-7471

DATA-CONTROL SYSTEMS A COMPUTYNE

CO	1455 RESEARCH BLVD ROCKVILLE MD 20850	
TXW	710-456-0376	301-279-8751
P	PORTO EMP 165 ENG 14 \$2,500-\$5,000K	
CA	DCS Westminster	714-894-4471

DATACOPY CORP. 1215 TERRA
BELLA AVE MOUNTAIN VIEW
CA 94043 TXW 701994.....415-965-7901
J HUGHES EMP 70 ENG 20 \$5,000-\$10,000K

DATA DELAY DEVICES INC

385 LAKEVIEW AVE CLIFTON
NJ 07011.....201-772-1101
A LUPI EMP 30 ENG 2 \$100-\$250K
ADV PG 153

AZ	Tech Sales Phoenix	602-246-1611
CA	Weseloh & Assoc Mtn View	415-961-0561
CA	Martronix El Toro	714-858-0631
FL	Southern Elctn Mktg Casselberry	305-831-2821
GA	Mountain Electro Products Stone Mountain	404-448-5551
MA	Radian Assoc Woburn	617-933-3738
NY	James E Zimmerman Sales Pittsford	716-381-3181
TX	Impaq Sales Co Irving	214-257-3671

DISTRIBUTORS

CA	Target Elect Sunnyvale	408-734-5611
CA	Force Electronics El Segundo	213-772-1321

DATA DISPLAY PRODUCTS BOX 91072

LOS ANGELES CA 90009	
TXW 664-690	213-640-0441
EMP 26 ENG 2 \$1,000-\$2,500K	

AZ	Mercury Engrg Sales Phoenix	602-244-0112
CA	HMC Arcadia	818-447-0951
CA	Codella Mktg Cupertino	408-257-2561
CO	High Plains Mktg Englewood	303-792-2021
FL	Newell Hynes Assoc Deerfield Bch	305-429-3201
GA	E M F Atlanta	404-948-6021
IL	Trend-Tronics Woodridge	312-985-0621
MA	Hatch Assoc Randolph	617-963-3331
MN	Sotac Inc St Paul	612-228-0771
NJ	K & R Eng Flanders	201-584-5271
OH	WRR Assoc Brecksville	216-526-2021
OR	B & P Sales Beaverton	503-641-3481
PA	Arnold Assoc Jenkintown	215-742-0601
TX	Marathon Assoc Freeport	409-233-7021
WA	B & P Sales Bellevue	206-454-6571
FR	Macom Richmond BC	604-271-2661
FR	Electro Source Rexdale ON	416-675-4461

DISTRIBUTORS

CA	Parco Arcadia	818-447-0951
IL	Trend-Tronics Woodridge	312-985-0621
MD	Marine Air Supply Kensington	301-949-9561
MA	Value Added Elec Needham	617-449-6116
NJ	Tonar Rockaway	201-586-9001
NJ	VKR Flanders	201-584-5231
PA	Shap Phila	215-969-3301
FR	Intek Vancouver BC	604-324-6831
FR	RAE Burnaby BC	604-291-8861
FR	Coba Pte Claire PQ	514-694-1331
FR	Valtrie Mktg Mississauga ON	416-673-7151

DATA GENERAL CORP 4400
COMPUTER DR MS F134 WESTBORO
MA 01581 TXW 710-390-1217.....617-366-8911
D OLMSTED EMP 15000 OVER \$10,000K

DATAGRAPHIX INC BOX 82449
SAN DIEGO CA 92138
TXW 910-335-2058.....619-291-9961
R MOELENHOF EMP 1700 ENG 108

CA	Datagraphix Culver City	213-642-7671
CA	Datagraphix Oakland	415-889-0221
GA	Datagraphix Atlanta	404-394-4811
IL	Datagraphix Oak Brook	312-953-1711
MD	Datagraphix Bethesda	301-654-6611
MA	Datagraphix Waltham	617-890-4101
MN	Datagraphix Bloomington	612-854-2981
NY	Datagraphix New York	212-599-2471
OH	Datagraphix Westlake	216-835-3511
TX	Datagraphix Dallas	214-386-7001

DATA IMAGES INC 1283 ALGOMA RD
OTTAWA ON K1B 3W7TXW 053
4885.....613-744-3771
M TOOLE EMP 60 ENG 3

AZ	Arcom Sales Scottsdale	602-947-5741
CA	Caltron Comps Corp Mtn View	415-964-3241
CT	Ray Perron & Co Farmington	203-673-4821
IL	Esco Assoc Des Plaines	312-298-5311
IA	Cahill Schmitz & Howe Cedar Rapids	319-377-8211
KS	Thunderbird Inc Wichita	316-684-3941

MA	Ray Perron & Co Needham	617-449-6162
MN	Bill Deming & Assoc Mnpls	612-888-5000
MO	Thunderbird Inc Maryland Hts	314-298-8940
NH	Ray Perron & Co Dover	603-742-2321
NY	H C Johnson Agencies Rochester	716-586-0777
NY	Metro Tech Sales Jericho	516-935-3330
PA	H C Johnson Agencies Glenshaw	412-487-1246
WA	Rep-West Seattle	206-283-8351

D.A.T.A. INC 9889 WILLOW

CREEK RD SAN DIEGO CA 92131

TXW 910-322-1340
P WILSON EMP 40 ENG 6 \$2,500-\$5,000K
ADV PGS 125,221

DATA	I/O CORP 10525 WILLOWS	
RD NE	REDMOND WA 98073	
TXW	15-2167	206-881-6444
E	OLSEN EMP 500 ENG 75 OVER \$10,000K	
CA	Data I/O Santa Clara	408-727-0641
CA	Data I/O Santa Clara	714-662-1182
NH	Data I/O Amherst	603-889-8511
TX	Data I/O Richardson	214-235-0044

JATA INSTRUMENTS INC 4

HARTWELL PL LEXINGTON

MA 02173 TXW 200081 617-861-7450
E LUTFY EMP 235 ENG 25 OVER \$10,000K

AZ	Williams Assoc Scottsdale	602-947-4297
CA	Electronic Engrg Assoc	
	San Carlos	415-593-2189
CA	C Meyers Glendale	213-534-5197
CA	Herb Bass Assoc Boulder	303-530-7509
CA	Bandy Co Decatur	404-296-1027
IL	R Kanter Addison	312-620-8701
MO	Delltron Co St Louis	314-869-4779
NJ	R Snyder Broomall	215-356-1418
NY	Williams Assoc Albuquerque	505-255-1638
OH	OHR Marketing Raleigh	919-781-1961
OH	B Young Mansfield	419-522-3738
TX	Griffin Sales Co Irving	214-256-6512
TX	Herb Bass Assoc Bountiful	801-295-7100
WA	SEA Sales & Eng Assoc Redmond	206-883-4999
W	Interotechnology Ltd Don Mills ON	416-445-5500

JATAKEY INC 12281 NICOLLET AVE

BURNSVILLE MN 55337

A PAULSON EMP 25 ENG 3 \$500-\$1,000K

JATAMAX ELECTRONICS INC	BOX 2839	
BLUE JAY	CA 92317	714-336-3561

JATA MEASUREMENT CORP 8605

GROVEMONT CIR BOX 490

GAITHERSBURG MD 20877 301-948-2450
EMP 107 ENG 28 \$2,500-\$5,000K

JATAMETRICS DRESSER INDUSTRIES		
INC	340 FORDHAM RD WILMINGTON	
MA	01887 TXW 710-347-7672	617-658-5410
M	SULLIVAN EMP 180 ENG 6 \$5,000-\$10,000K	
IL	Motion Technology Birmingham	205-879-0382
IL	Motion Technology Glendale	602-991-1782
CA	Motion Tech Inc Chatsworth	818-700-8868
CA	Motion Tech Inc San Jose	408-923-0990
O	Integrated Motion Systems	
	Englewood	303-794-7973
IL	OEM Mktg & Sales Guilford	203-453-5424
IL	Motion Technology Palm Bay	305-676-0445
IA	Motion Technology Liburn	800-438-1380
	Applied Kinetic Systems	
	Des Plaines	312-699-9790
NY	Fehrook & Assoc West Chester OH	513-777-4248
NY	OEM Mktg & Sales Franklin	617-528-4983
IL	Xanthus Inc Troy	313-528-2000
JH	OEM Mktg & Sales Salem	603-893-0009
J	Precision Motion Sales	
	Williamstown	609-629-4757
Y	KLM-Garner Co Pittsford	716-381-8350
NY	Precision Motion Sales Glen Cove	516-676-1645
IC	Motion Technology Charlotte	800-523-6849
CH	K F Nauer Co Chagrin Falls	216-338-4580
NY	Motion Technology Greenville	803-297-7903
X	Automated Motion Control Dallas	214-340-4192
IL	KMA Sales Milwaukee	414-259-1771

ATAPOINT CORP 9725 DATAPOINT

DR MS-H13 SAN ANTONIO

TX 78284 TXW 76-7477 512-699-7000
A HOBGOOD EMP 4500

Z	Datapoint Phoenix	602-264-0330
A	Datapoint Orange County	714-754-7100
A	Datapoint San Francisco	415-398-2888
O	Datapoint Denver	303-696-8910
C	Datapoint Washington	703-841-7600
L	Datapoint Tampa	813-888-7265
A	Datapoint Atlanta	404-321-6936
IL	Datapoint Chicago	312-977-1470
IL	Datapoint Indianapolis	317-251-2413
IL	Datapoint Overland Park	913-491-4882
NY	Datapoint Louisville	502-893-2531
A	Datapoint New Orleans	504-831-8101
A	Datapoint Boston	617-273-5031
NY	Datapoint Detroit	313-626-1732
NY	Datapoint Minneapolis	612-831-2257
NY	Datapoint St Louis	314-878-6595
O	Datapoint Elmwood Park	201-794-3570
NY	Datapoint New York	212-207-9575
C	Datapoint Charlotte	704-527-5300
R	Datapoint Beaverton	503-635-1591
N	Datapoint Philadelphia	215-337-3988
N	Datapoint Memphis	901-761-3080
A	Datapoint Dallas	214-661-5356
A	Datapoint Seattle	206-455-2044
IL	Datapoint Milwaukee	414-453-1425

DATA PRECISION DIV ANALOGIC

16 ELECTRONICS AVE DANVERS

MA 01923 TXW 6817144 617-246-1600
J O'BRIEN EMP 170 ENG 20 OVER \$10,000K

AL	Showalter Instruments Bellevue	206-746-7970
AZ	Odssey Assoc Phoenix	602-246-8846
CA	AMASCO Sunnyvale	408-733-8690
CA	AMASCO Carson	213-516-8561
CO	Odyssey Englewood	303-773-8176
FL	Saber Assoc Melbourne	305-724-0920
GA	Saber Assoc Atlanta	305-724-0920
IL	Sector Engrg Sales Elmhurst	312-530-7850
IN	Sector Engrg Sales Indpls	317-842-1120
KS	E I R Co Kansas City	816-452-7030
KY	EOS Systems Dayton OH	513-294-2476
MD	Electronic Mktg Assoc	
	Rockville	301-881-5300
MA	Eastronix Inc Bedford	617-275-5775
MI	EOS Systems Pontiac	313-338-2280
MN	Electronic Instrument Consult	
	Chanhausen	612-445-7056
MO	E I R Co Leasburg	314-895-4100
NM	Odyssey I Albuquerque	505-265-6645
NY	Radiation Electronics Port	
	Chester	914-937-2300
NY	Kapital Instr Sales Frankfort	315-894-4245
NC	Saber Assoc Clayton	305-724-0920
OH	EOS Systems Chesterland	216-729-2222
OR	Showalter Instruments Portland	503-629-9254
PA	Electronic Mktg Assoc Plymouth	
	Mt	215-248-5050
PA	EOS Systems Pittsburgh	412-261-2604
SC	Saber Assoc Columbia	305-724-0920
TX	Scientific Devices Richardson	214-231-8106
WA	Showalter Instr Inc Bellevue	206-746-7970
WI	Sector Engrg Sales Milwaukee	414-352-8280

DISTRIBUTORS

AZ	Brownell-Electro Mobile	205-479-9581
AZ	Metermaster Inc Phoenix	602-243-4111
AZ	Barnhill Assoc Scottsdale	602-947-7841
AR	Tri-State Instr Labs Morrilton	501-354-1849
CA	E I L Instr Inc LA	213-685-7020
CA	Energy Elect Prods LA	
CA	Fuji Svea Torrance	213-533-1221
CA	Metermaster Inc LA	213-685-4340
CA	Metermaster Inc Palo Alto	415-968-0313
CA	R A G Enrtips Canoga Pk	213-998-6500
CA	RGB Electro-Industrial San Jose	408-998-4491
CA	EIL Instr 2998 Scott Bl Santa Clara	
CA	Instrument Engineers 4898 Ronson San Diego	
CA	Shafar Eng Svc 333 N Santa Anita Arcadia	
CO	Barnhill Assoc Englewood	303-779-3600
CO	EIL Instr Denver	
CT	E I L Instr Middletown	203-346-6646
FL	Brownell Electro Orlando	305-843-6770
FL	E I L Instr Palm Bay	305-725-8300
FL	Pioneer Standard Orlando	305-859-3600
FL	Kimball Elect Labs 8081 W 21 La Hialeah	
GA	Brownell Electro Atlanta	404-762-5181
IL	E I L Instr Bridgeview	312-430-2292
IL	Joseph Elect Niles	312-297-4200
IL	Metermaster Inc Elk Grove Vlg	312-593-8650
IL	Pioneer Standard Elk Grove Vlg	312-437-9680
IL	Pacific Indicator 6603 W N Park Oak Park	
IL	Dot-Tronics Elk Grove Vlg	
IN	E I L Instr Indpls	317-545-1373
IN	Loren Green Assoc Indpls	317-293-9827
IN	Pioneer Standard Indpls	317-849-7300
IN	Acro Elect Corp Box 2007 East Chicago	
KY	Pefferless Elect Equip 1815 S 7 St Louisville	
LA	Industrial Instr Works 5745 Salmen	
	New Orleans	
LA	Bread-Gardner Inc Box 1228 Kenner	
LA	Industrial Elec Supply Baton Rouge	
MD	E I L Instr 10 Loveton	
	Cir Sparks	301-771-4800
MD	Pioneer Instr Gaithersburg	301-948-0710
MD	Kapital Sales Cockeysville	
MA	Sunshine Scien Inst Baltimore	
MA	Brownell Electro 10 Lynsott	
	Rd Woburn	617-935-7820
MA	E I L Instr Burlington	617-272-9450
MA	Contact East 7 Cypress Dr Burlington	
MI	Pioneer Standard Livonia	313-525-1800
MI	R S Elect Livonia	313-525-1155
MI	R S Elect Grand Rapids	616-241-3483
MI	R S Elect Wyandotte	313-282-5880
MI	R S Elect Kalamazoo	313-381-5478
MI	R S Elect Roseville	313-779-2450
MI	Ram Meter Ferndale	313-398-6767
MN	Loren Green Assoc Mnpls	612-571-6666
MN	Pioneer Standard 10203 Bren Rd Minnetonka	
MO	Instrument & Control Sales 4354 Olive	
	St Louis	201-753-4600
NJ	Brownell Electro So Plainfield	201-544-0666
NJ	RAG Enrtips Ocean	201-599-7658
NM	Barnhill Assoc Albuquerque	505-299-7658
NY	Advance Elect New York	212-687-2224
NY	Brownell Electro New York	212-924-6000
NY	E I L Instr Hauppauge	516-231-6333
NY	E I L Instr Rochester	716-442-2997
NY	Trott Elect Clarence	716-634-8500
NY	Trott Elect Pittsford	716-586-8251
NY	Baker Elect Box 9219 Rochester	704-394-4341
NC	Brownell Electro Charlotte	919-787-5818
NC	Leco Inc Raleigh	704-376-2237
NC	Trott Elect Charlotte	
NC	Pioneer Instr 2906 Baltic Av Greensboro	
NC	Pioneer Instr 1906 Baltic Greensboro	
OH	Pioneer Instr Cleveland	216-587-3600
OH	Pioneer Instr Dayton	513-236-9900
OH	Natl Instr Dist 7913 S Suburban Dayton	
OK	Hu-Stone Instr Tulsa	918-836-0286
OK	Tristan-de Pue Labs Okla City	405-235-5469
OR	Branom Instrument Portland	503-283-2555
OR	Eicher Richards Co Beaverton	503-221-1123
PA	E I L Instr Holland	215-561-4090
PA	E I L Instr Pittsburgh	412-731-5230
PA	Pioneer Instr Pittsburgh	412-782-2300

PA	OED Elect Inc Hatboro	215-674-9600
PA	Sunshine Scientific Phila	215-673-5600
TN	Brownell Electro Knoxville	615-966-3441
TN	Brownell Electro Memphis	901-332-9258
TN	Brownell Electro Nashville	615-889-8230
TX	Barnhill Assoc Richardson	214-231-2573
TX	Barnhill Assoc Austin	512-451-0217
TX	E I L Instr Houston	
TX	Metermaster Inc Garland	214-271-5671
TX	Qualify Instr Houston	713-524-0528
TX	R E Davis Co Dallas	
TX	Pioneer Instr Dallas	
TX	EIL Instr Dallas	
UT	Barnhill Assoc Murray	801-262-3000
VA	E I L Instr Alexandria	703-354-4330
VA	E I L Instr Virginia Bch	804-499-3746
VA	Electronic Equip Bank Vienna	703-398-3350
VA	Instrument Tech Rep Richmond	804-275-1431
WA	Branom Inst Co Seattle	206-762-6050
WA	Branom Inst Co Richland	509-943-6664
WA	E I L Instr Seattle	206-762-0880
FR	Eicher Richards Seattle	206-523-7888
	E I L Instr Carolina PR	

DATAPROBE INC 110 W PALISADES

BLVD PALISADES PARK NJ 07650

TXW 642-185 201-947-9500
S WEISS EMP 20 ENG 3 \$1,000-\$2,500K

CA	Distributors	
CA	Western Data Group Walnut Creek	415-938-9582
CO	L James & Assoc Commerce City	303-287-4657
IL	Network Concepts Oakbrook	312-953-8650
MI	A-Tech Birmingham	313-540-9933
NY	Glasgow Communications New York	201-768-8082
NY	Datanet New York	201-569-2353
OH	Data Processing Sciences	
	Cleveland	216-582-0700
OR	L James & Assoc Salem	503-390-7135
UT	L James & Assoc SLC	801-487-0087
WA	L James & Assoc Woodinville	206-768-5228

DATAPRODUCTS CORP 6200 CANOGA AV

WOODLAND HILLS CA 91365

TXW 67-4734 818-887-8000
J TOWELL EMP 5000 ENG 197 OVER \$10,000K

CA	Dataproducs San Jose	408-946-0630
CA	Dataproducs Irvine	714-752-7411
FL	Dataproducs Sunrise	305-745-0105
IL	Dataproducs Des Plaines	312-298-9860
MA	Dataproducs Wellesley Hills	617-237-4711
MI	Dataproducs Troy	313-528-1304
MN	Dataproducs Mnpls	313-528-2066
NJ	Dataproducs Lanoka Harbor	609-971-1048
TX	Dataproducs Wayne	215-293-1810
TX	Dataproducs Richardson	214-231-2240
VA	Dataproducs Vienna	703-556-0225

DISTRIBUTORS

CA	Wyle Distr 3000 Bowers	
	Santa Clara	408-727-2500

DATAQ INSTRUMENTS INC 100

LINCOLN ST AKRON OH 44308

R LOCKHART EMP 10 ENG 3 216-434-4284

DATARAM CORP PRINCETON RD		
CRANBURY NJ 08512		
TXW 510-685-2542		609-799-0071
B MIKULA EMP 110 ENG 12 OVER \$10,000K		
CA	Dataram Corp Santa Ana	714-836-5988
CA	Thorsen West Mt View	415-964-9300
CO	RML Assoc Denver	303-767-6654
FL	Col-Ins Co Orlando	305-423-7615
IL	Dataram Corp Oak Brook	312-789-3710
IL	Technical Sales Assoc Rockville	301-258-7767
MD	Dataram Corp Sterling	617-422-6090
MD	First Rep Co of MN Eden Prairie	612-944-2097
MO	Atech St Louis	314-576-2884
NJ	Williams Assoc Hadsonfield	609-428-6060
NY	RG Engrg Rochester	716-424-7492
NY	Hanson & Hughes Greenlawn	516-754-3608
OH	Seltech Mktg Columbus	614-451-3865
TX	Thorsen Southwest Dallas	214-233-5744
WA	Moritech Sales Corp Bellevue	206-454-4500

DISTRIBUTORS

CA	California Computer Group	
	Costa Mesa	714-966-1661

DATA SET CABLE CO 722 DANBURY RD

RIDGEFIELD CT 06877

TXW 710-467-0668 203-438-9684
T BUSCH EMP 75 ENG 2 \$2,500-\$5,000K

DATA SOUTH COMPUTER CORP	
BOX 240947 CHARLOTTE	
NC 28224 TWX 6843018.....	704-523-8500
M GATES EMP 203 ENG 14 OVER \$10.000K	

FL	Pen-Tech Assoc Deerfield	305-427-4989
GA	KMA Norcross	404-449-9430
IL	EMA Rolling Meadows	312-398-5300
IN	Carter McCormick & Peirce Indpls	317-244-1685
MD	KD Assoc Lincithum Hts	301-859-5151
MA	Betronic Assoc Waltham	617-894-8400
MI	Carter McCormick & Peirce Farmington Hills	313-477-7700
NY	Northern Data Systems New Hartford	315-732-0332
NY	Crane & Egert Corp Elmont	516-488-2100
NC	EMA Winston-Salem	919-784-7304
OH	Carter McCormick & Peirce Cleveland	216-779-5100
OR	Thorson Co NW Beaverton	503-644-5900
TX	LEL Systems Dallas	214-680-9588
WA	Thorson Co NW Bellevue	206-445-9180
WI	KMA Sales Milwaukee	414-259-1771

DATA TECH DIV PENRIL CORP
1510 S LYON ST SANTA ANA
CA 91705 TWX 910-595-1570 714-546-7160
G COTE EMP 50 ENG 6 OVER \$10,000K

AL	Systematx Birmingham	205-979-2070
AZ	David C Donath Co Mesa	602-833-8612
CA	J Campbell Burlingame	415-342-7007
FL	Systematx Eustis	904-357-5100
GA	FLW Southeast Inc Jonesboro	404-474-3661
IL	Memo Sales Elk Grove	312-228-9555
IA	Miller Mechanical Bettendorf	319-355-4485
MA	JSR Assoc Peabody	617-532-0348
MN	Bican Co Cedar	612-434-7733
MO	Economy Power & Inst KC	816-523-1010
NY	Robert F Lamb Co Buffalo	716-874-4900
NC	FLW Inc Concord	704-782-6615
OH	Merrifield Co Cincinnati	513-821-8620
PA	Baker Process Equip Coraopolis	412-264-8271
TX	J O Instruments Dallas	214-263-2025
FR	Instrument Svc Labs Richmond BC	604-278-4511

DISTRIBUTORS

CA	D E A Co El Toro	714-770-0188
HI	T S & D Co Honolulu	808-955-4542
MI	R H Jackson Co Troy	313-689-9950
NJ	E R Mertz & Assoc Garwood	201-232-4643
OH	Baker Indus Equip Cuyahoga Falls	216-928-8877
OK	Automatic Engg Tulsa	918-585-5703
VA	Advance Control Equip Richmond	804-264-7100
FR	Willer Engng Ltd Willowdale ON	416-499-4421

DATA TECHNOLOGY INC 4 GILL ST
WOBUEN MA 01801 TWX 95-1351 617-935-8820
D SKENDERIAN EMP 81 ENG 11 \$2,500-\$5,000K

CA	Motion Control Inc San Jose	408-997-0544
CA	Tech Rep Lomita	213-539-9070
CO	Thorson Rocky Mtn Englewood	303-779-0666
FL	R-Rep Co Melbourne	305-725-6993
IL	Carlson Elctn Sales Elk Grove Vlg	312-956-8240
IA	SPS Assoc Des Moines	515-225-0607
MD	Callas Electronics Baltimore	301-744-7711
MA	N E M A Acton	617-263-4870
MN	Mohn J Exon Co St Paul	612-636-5533
NY	A & D Devices E Rochester	716-385-2778
NY	Swedelo Hawthorne	914-747-0101
OH	Servo Mark Inc Cleveland	216-871-2353
OR	Gauss Industries Beaverton	503-629-9692
PA	Wyncote Instr Co Glenside	215-572-6500
TX	Blackburn Assoc Dallas	214-692-8885
WI	Carlson Elctn Sales Milwaukee	414-476-2790

DATATRAN LABS INC BOX 384
SUSSEX NJ 07461 914-856-4313
R JOHNSON EMP 18 ENG 3 \$1,000-\$2,500K
NJ Applied Motion Controls Sparta 201-729-5987

DATA TRANSLATION INC 100
LOCKE DR MARLBORO MA 01752
TWX 95 1646 617-481-3700
E WIRKA EMP 140 ENG 30 OVER \$10,000K

CA	Thorson West Mt View	415-964-9300
CA	RM Sales Costa Mesa	714-454-2548
MA	High Tech Sales Assoc West Acton	617-263-2813
NY	Tac-Rep Inc Rochester	716-586-8710
NY	Tac-Rep Inc Schenectady	607-692-3705
OR	NW Marketing Portland	503-297-2581
WA	NW Marketing Bellevue	206-455-5846

DATATRON INC 2942 DOW AVE
TUSTIN CA 92680 TWX 910
595-1589 714-544-9970
EMP 85 ENG 20 OVER \$10,000K

DATA VOICE CORP 180 N LASALLE ST
CHICAGO IL 60601 312-831-4488
R ARONS EMP 12 ENG 6 \$100-\$250K

DATA/WARE DEVELOPMENT INC
4204 SORRENTO VALLEY BLVD
SAN DIEGO CA 92121
TWX 910-335-2066 619-453-7660
B GRAY EMP 30 ENG 15 \$1,000-\$2,500K

DATATEX CORP 7333 E HELM DR
SCOTTSDALE AZ 85260
TWX 910-950-1289 602-948-3280
J BUCKLEY EMP 35 ENG 7 \$1,000-\$2,500K

DATAWRAP INC 37 WATER ST
WAKEFIELD MA 01880 617-246-5757
EMP 15 ENG 2

DA-TECH CORP 92 STEAMWHISTLE DR
IVYLAND PA 18974 215-322-9410
B BENTZ EMP 90 ENG 6 \$2,500-\$5,000K

DATEC INC BOX 13568 RESEARCH
TRIANGLE PK NC 27709-3568 919-544-6433
E TWARDY EMP 80 ENG 6 \$5,000-\$10,000K

DISTRIBUTORS

CA	Mark Assoc LA	213-641-1840
FL	Currie, Peak & Fraizer Orlando	305-855-0843
GA	Digital Solutions Marietta	404-955-4488
LA	American Teledata Metairie	504-456-1400
MA	Harvard Data Equipment Norfolk	617-384-7768
MI	Terminal Services Brighton	313-227-2331
NJ	The Datastore Inc Cherry Hill	609-779-0200
NC	Clydd Rudd & Assoc Greensboro	919-288-0222
OR	Data Devices Beaverton	503-641-5500
VA	Comsel Vienna	703-734-3880
WI	Apex Systems Menomonee	414-251-4142

DATTEL DIV GENERAL ELECTRIC CO
11 CABOT BLVD MANSFIELD
MA 02048 TWX 710-346-1953 617-339-9341
H BATCHELDER EMP 600 ENG 35 OVER \$10,000K

AL	Electronic Mfrs Agents Huntsville	205-830-4030
AZ	Tech Sales Phoenix	602-246-1614
CA	Datel Santa Ana	714-835-2751
CA	Datel Sunnyvale	408-733-2424
CO	Elcom Inc Denver	303-337-2000
CT	JBL Assoc Hamden	203-281-3161
FL	H A Inc Coral Springs	305-752-7262
GA	Electronic Mfrs Agents Roswell	404-992-7420
HI	Adtech Inc Honolulu	808-941-0708
IL	Sector Eng Sales Elmhurst	312-530-7850
IN	Sector Eng Sales Indpls	317-842-1120
IA	Enso-Rep Davenport	319-386-6600
KS	Enso-Rep Wichita	316-683-1070
KY	Instrumentation Systems Dayton	513-294-2838
LA	Technical Marketing Carrollton	214-387-3601
MI	Electro Sales Assoc Livonia	313-474-7320
MN	PSI Mnpls	612-944-8545
MO	Enso-Rep Maryland Hts	314-423-3935
NV	Datel Sunnyvale	408-733-2424
NM	Cleveland Enterprises Albuquerque	505-265-7893
NY	R & D Assoc Liverpool	315-457-1001
NY	Astrotec Inc Babylon	516-422-2500
OH	Instrumentation Systems Cleveland	216-845-8800
OR	Tasco Inc Portland	503-245-8186
PA	Wyncote Instrumentation Glenside	215-572-6500
UT	Elcom Inc SLC	801-485-7415
VA	H J Heffernan Co Arlington	703-522-6666
WA	Tasco Inc Bellevue	206-453-1414
WI	Sector Eng Sales Milwaukee	414-352-8280

DA-TEL RESEARCH CO INC
932 N PARK AVE BOX 1206
MONTROSE CO 81402 303-249-6129
JEBRECHT EMP 19 ENG 3 \$500-\$1,000K

AZ	Utility Products Phoenix	602-840-3455
CA	Ingalls Assoc Emeryville	415-658-5622
CA	Ingalls Assoc Manhattan Bch	213-455-1316
CO	Da-Tel Research Montrose	303-249-6129
KY	Shewmaker Electronics Lexington	606-273-1772
MA	Danek Assoc Needham Heights	617-444-8838
NY	Keeler-Miller Assoc Lynbrook	212-895-6990
ND	Electric Utility Sply Co Fargo	701-235-3684
OK	Utility Products Central Tulsa	918-494-9004
OR	United Sales Assoc Tigard	503-620-9606
PA	Electrical Distributors Co Conshohocken	215-825-6450
TX	Gettys-Eads-Addair Inc Houston	713-781-3005
UT	Lectrol Inc Bountiful	801-292-7674
WA	United Sales Assoc Bellevue	206-454-6412

DATRION CORP 16398 SW 72 AVE
PORTLAND OR 97224
TWX 910-455-8184 503-684-3232
J DUGAN EMP 15 ENG 2

DISTRIBUTORS

AL	Southeastern Mktg Huntsville	205-882-1633
CA	Quality Peripherals Irvine	714-250-1034
CA	Quality Peripherals San Jose	408-971-6840
IL	CW Elect Entrys Arlington Hts	312-439-9810
IN	CW Elect Entrys Ft Wayne	219-747-7661
KS	Adv Industrial Systems Overland Pk	913-432-8065
MA	Impact Sales Co Canton	617-821-1800
MO	Adv Industrial Systems Ellisville	314-458-2034
NE	Robotics & Automation Control Fremont	402-727-5010
OK	Southwest Automated Controls Okla City	405-840-4130
OR	R & T Factors Portland	503-249-7278
WI	CW Elect Entrys Milwaukee	414-351-6123

DATRION INSTRUMENTS INC
4125 SW MARTIN HWY STUART
FL 33497 305-283-0935

DATTILO ELECTRONICS 11621
ELECTRON DR LOUISVILLE
KY 40299 502-267-4466
D DATTILO EMP 27 ENG 3 \$500-\$1,000K

DATUM INC TIMING/AACOM DIVS
1363 S STATE COLLEGE BLVD
ANAHEIM CA 92806
TWX 910-592-1289 714-533-6333
C NEUMANN EMP 285 ENG 25 OVER \$10,000K

DAVCO MFG CO 169 RIDGEDALE
AV BOX 1299 MORRISTOWN
NJ 07960 201-267-4990
J LAWLESS JR EMP 7 ENG 3 \$100-\$250K

DAVEN COMPONENTS GRP ARMTEC
INDUS INC MANCHESTER
MUNICIPAL AIRPORT MANCHESTER
NH 03103 TWX 710-220-1747 603-669-0940
D RICHARDS EMP 450 ENG 30 OVER \$10,000K

AZ	Tremble Assoc Tempe	602-967-2050
CA	Fischer Assoc Santa Clara	408-733-7350
CA	Groh Assoc Irvine	714-837-9877
CO	Tremble Assoc Wheat Ridge	303-421-8900
FL	Reynolds & Assoc Melbourne	305-259-7000
IN	J & B Eng Sales Ft Wayne	219-483-2813
KS	Tech Sales & Assoc Shawnee Mission	913-888-3330
MA	MPS Elec Inc Norwood	617-769-8700
MN	R-J Inc Mnpls	612-866-3666
MO	Tech Sales & Assoc St Louis	314-725-5300
NJ	A Robinson Assoc New Providence	201-464-4800
NM	Tremble Assoc Albuquerque	505-266-8610
NY	HLJ-Comp-Tech Lynbrook	516-599-2999
NY	Nu-Tekness Mktg Guilderland	518-355-1829
NC	P J Nahser Co Burlington	919-226-8050
OH	Allen Nace Co Englewood	513-836-0930
OR	Component Techn Inc Portland	503-292-1518
PA	Freedman Malta Co King of Prussia	215-337-9210
TX	Oeler & Menelaides Dallas	214-361-8870
UT	Tremble Assoc SLC	801-486-5290
FR	Braydon Electro Ltd Montreal PQ	514-332-5650
FR	Lothar Sanford Corp New York NY	212-757-3860

DAVIDSON OPTRONICS INC
2223 RAMONA BL BOX 1560
WEST COVINA CA 91790
TWX 910-584-1824 818-962-5180
S BAILEY EMP 60 ENG 3 \$2,500-\$5,000K

DAVIES MOLDING CO HARRY
4920 W BLOOMINGDALE AVE
CHICAGO IL 60639 312-622-8960
L SERA EMP 135 ENG 3 \$5,000-\$10,000K

CA	Littell Western Sales Monterey Pk	261-0160
CT	Paul R Sturgeon Co Hartford	249-7800
FL	Nevin Carpenter Assoc Pinellas Pk	546-8290
IL	R W Kruse Co Chicago	745-9070
IN	McCaw Ind Sales Noblesville	896-5300
IA	Clancey Co Des Moines	278-1330
KS	Clancey Co Shawnee Mission	432-4550
MA	Sturgeon Co Needham Hts	444-6600
MI	Bishop-Strek & Co Detroit	538-0550
NY	Rywel Sales Inc Wading River	929-4880
NC	Anthon Inc Matthews	847-7330
OH	Foley Co Westlake	TR 1-8830
OR	Tri-Rep Inc Lake Oswego	635-4760
PA	W G Walker Paoli	MA 7-8140
TN	L E Offutt Co Memphis	396-3330
TX	Dynamic Comp Sales Dallas	522-8710
WI	Clague Sales Corp Milwaukee	BR 2-1950
FR	Atlas Elctns Ltd Toronto	RU 1-6170

DISTRIBUTORS

IL	Waldon Elctns Chicago	312-585-1210
IL	G C Elctns Rockford	815-968-9660
NJ	H H Smith Co Manasquan	201-223-9400
RI	Wm Dandrea & Co Providence	401-861-2800
TX	Allied Elctns Fort Worth	214-265-9340

DAYCO CORP 333 W FIRST ST
DAYTON OH 45401
TWX 810-459-1822 513-226-7000
EMP 9500 OVER \$10,000K

DAYMARC CORP 301 SECOND AVE
WALTHAM MA 02154
TWX 710-324-6469 617-890-2340
EMP 190 ENG 15 \$5,000-\$10,000K
CA Daymarc San Jose 408-244-8290
TX Daymarc Plano 214-867-0380

DAYTON GRANGER INC 3299 SW 9 AVE
FT LAUDERDALE FL 33315
TWX 510-955-9760 305-463-3450
M URIE EMP 500 ENG 15

DAYTRONIC CORP 2589 CORPORATE PL
MIAMI MI 33142 OH 45342
TWX 810-473-2978 513-866-3300
J PERKINS EMP 150 ENG 30 OVER \$10,000K

AL	FLW Southeast Huntsville	205-837-9360
AL	FLW Southeast Marietta	404-424-1730
AZ	Tremble Assoc Tempe	602-967-2050
CA	Saber Enterprises Long Beach	910-341-6410
CA	Saber Enterprises Mtn View	415-968-0402
CO	Tremble Assoc Lakewood	303-233-9540
CT	Di Ana Sales Co Meriden	203-235-1310
FL	FLW Southeast Orlando	305-894-1100
IN	Comtel Midwest Co Chicago	312-539-4830
IN	Comtel Midwest Co Indpls	317-253-1680
IA	Comtel Midwest Co Cedar Rapids	319-377-9430
KS	Vertec Mission	913-677-3200
MA	Di Ana Sales Co West Newbury	617-363-5420
MI	Comtel Instruments Southfield	313-358-2500
MN	Comtel Midwest Co Wayzata	612-476-1550
MO	Vertec Manchester	314-394-6240
NH	Di Ana Sales Co Randolph	603-466-3990
NJ	RJM Sales Co Scotch Plains	201-322-7880
NM	Tremble Assoc Albuquerque	505-266-8610
NY	Maxwell Bennett Assoc Williamsville	716-634-2100
OH	Comtel Instruments Cleveland	216-442-8080
PA	Roberts Engng Sales Co Radnor	215-688-6520
SC	Henry Cook Assoc Spartanburg	803-576-8590
TX	FLW Southeast Memphis	901-345-3560
TX	Daytronic Corp Houston	713-590-5020
UT	Tremble Assoc SLC	801-486-5290
WA	Brett Assoc Seattle	206-431-8090
WI	Comtel Instruments Pittsburgh	412-922-5720
WI	Comtel Midwest Co New Berlin	414-544-6040
FR	Durham Instruments Pickering ON	416-839-9960

FR	Durham Instruments Surrey BC	604-594-7222
D-B	DEVELOPMENTS 7709 KILBOURNE RD ROME NY 13440	315-339-1265
	D MANZOLINI EMP 5 ENG 1 \$100-\$250K	
D & B	POWER INC 204 N FEHR WAY BAYSHORE NY 11706	516-586-5955
	G BEST EMP 20 ENG 2 \$1,000-\$2,500K	
CA	Electro-Mechanical Inst Pasadena	818-795-7193
CA	SMI Reps Group Santa Clara	408-986-1610
NY	Edergon Electronics East Setauket	516-751-7089
PA	Eastern Scientific Mktg Montgomeryville	215-368-4570
VA	Beacon North Fairfax	703-591-1300
D-CEMCO	INC 3200 N SAN FERNANDO BLVD BURBANK CA 91504 TWX 910-498-2228	213-849-6341
	L COVALT EMP 40 ENG 1	
DCI INC	14812 W 117 ST OLATHE KS 66062	913-782-5672
	EMP 15 ENG 4 \$500-\$1,000K ADV PG 270	
AZ	J Smith Assoc	602-267-0981
CA	Cutlass Electronics	213-324-7360
CA	N-S Associates	415-851-2703
CA	Mesa Engineering	619-278-8037
CO	J Smith Assoc	303-597-5343
FL	Saber Assoc	800-432-6288
L	Commodore 1	312-394-5441
KS	Vertec	913-677-3200
MA	R G Assoc	203-875-4201
MI	H C Heym Assoc	313-853-7181
MO	Trask Engineering	612-537-2434
MO	Vertec	314-394-6266
NJ	Analecto Inc	609-424-2883
NJ	Analecto Inc	201-386-9673
NM	J Smith Assoc	505-265-3406
NY	L Tron	516-785-5032
QC	Saber Assoc	800-327-0853
QC	Bradcor Electronics Co	216-261-0888
TX	Measuremen Systems & Sales	214-644-4954
TX	Analecto Inc	703-823-1703
DEA	EQUIPMENT DIV ASI 1027 W 23 ST TEMPE AZ 85281 TWX 910-950-0140	602-967-8818
DEAK	TECHNOLOGY INC 1121 BOYCE RD PITTSBURGH PA 15241	412-941-9520
DEARBORN	WIRE & CABLE INC 250 W CARPENTER WHEELING IL 60090 TWX 910-253-0343	312-459-1000
	D KLUICKI EMP 90 ENG 4 OVER \$10,000K	
A	Dearborn West Chino	714-511-9393
CA	Kastler Cable Denver	303-571-4455
CA	Dura Sales Ft Lauderdale	305-363-1689
CA	Joel Wasserman Assoc Wilmette	312-256-3566
IL	Electronic Reps Indpls	317-894-1414
MD	Markeline Inc Baltimore	301-944-2111
MA	Mac Innis Co Norwood	617-762-8090
MA	R C Merchant & Co Farmington Hills	313-476-4600
IN	Ambassador Industrial Mktg Mnpls	612-542-8437
IS	Doby Assoc Jackson	601-981-1138
MO	Buckman & Assoc St Charles	314-946-6201
NJ	Jack McCoy Inc Medford	609-953-0770
NJ	Heritage Sales Kernersville	919-996-4374
OH	K T Depco Cleveland	216-442-6200
	DISTRIBUTORS	
AL	SEA Wire & Cable Madison	205-772-9616
AL	Sonic Wire Mt View	415-965-4646
CA	Newark Elect Denver	303-757-3351
CA	Royce Elect Altamonte Spgs	305-869-4700
CA	Simcon Elect Ft Lauderdale	305-485-4455
CA	Lance Engineering Clarkston	404-292-4404
CA	Ohm/Elect Palatine	312-359-5500
CA	GBL Elect Elk Grove Vlg	312-593-3220
CA	Newark Elect Chicago	312-638-4411
CA	Hawk Elect Wheeling	312-459-4030
CA	Classic Components Northbrook	312-272-9650
CA	R M Elect Indpls	616-531-9300
CA	Altex Carmel	317-848-1323
CA	Hutch & Sons Evansville	812-425-7201
CA	Deeco Cedar Rapids	319-365-7551
CA	Radio Parts Inc New Orleans	504-581-5959
CA	Industrial Components Wilbraham	413-596-3854
CA	Newark Elect Oak Park	313-967-0600
CA	RS Elect Livonia	313-525-1155
CA	SF Elect Grand Rapids	616-459-0216
CA	Newark Elect Mnpls	612-331-6350
CA	Finnigan Elect St Charles	314-946-6201
CA	Electro Spec Dover	201-361-6300
CA	Edge Supply W Collinswood Hts	609-456-3955
CA	Simcon Elect Rochester	716-328-3230
CA	Newark Elect S Rochester	716-473-6600
CA	National Elec Supply Mansfield	419-524-1042
CA	Brownell Elect Bridgeville	412-221-0074
CA	Pytronics Harrisburg	717-236-8001
CA	Newark Elect Garland	214-494-5911
CA	Newark Houston Elect Houston	713-782-4800
CA	Newark Elect SLC	801-486-1048
CA	Components Unltd Lynchburg	804-384-6990
CA	Carlyle Wire & Cable Seattle	206-575-6750
CA	Newark Elect Brookfield	414-781-2450
CA	Marsh Elect Milw	414-475-6000
CA	Taylor Electric Meguon	414-241-4321

DECA	TEK INC 4754-C N ROYAL ATLANTA TUCKER GA 30084 TWX 044-79-3874-2	404-493-7273
	M KIRBY EMP 14 ENG 3 \$250-\$500K	
DECIBEL	PRODUCTS INC 3184 QUEBEC ST DALLAS TX 75247 TWX 730212	214-631-0310
B	DAVIES EMP 275 ENG 10	
KS	H J Curry Sales Co Overland Pk	800-255-6222
	DISTRIBUTORS	
CA	Tekcom Inc Costa Mesa	714-645-5263
CO	Comtek Inc Englewood	303-761-1911
FL	Marketronics Corp Sunrise	305-792-5730
KS	The Antenna Farm 11508 W 90 St Overland Pk	800-255-6222
MD	Tessco Inc Hunt Valley	301-628-5300
MA	ComMar Inc Northboro	617-393-2411
TX	M Hutton Co 3240 Gdn Brk Dr Dallas	214-484-0580
DECITEK	CORP 25 SOUTH ST HOPKINTON MA 01748 TWX 951811	617-435-6931
B	LACROIX EMP 23 ENG 5 \$1,000-\$2,500K	
CA	MSC Anaheim	714-978-0721
FL	E M A Inc Winter Park	305-671-6800
NY	A & D Devices E Rochester	716-385-2778
OH	E M A Inc Aurora	216-562-6104
DECOM	SYSTEMS INC 340 RANCHEROS DR SAN MARCOS CA 92069 TWX 910-322-1758	619-744-1002
P	BERG EMP 121 ENG 12	
AL	Kelley Systems Corp Lake Guntersville	205-582-8677
AZ	L L Stoakes Inc San Diego	619-452-1600
CA	L L Stoakes Inc Marina Del Rey	213-822-8553
CA	Egbert Engrg Palo Alto	415-326-1387
CO	Grady Moore Assoc Boulder	303-494-3351
CT	K K Kopsco Newtown	203-426-3320
FL	Bass Assoc Sarasota	813-922-9538
KS	Technical Sales Assoc Olathe	913-829-2800
MD	Delmarva Ltd Severna Park	301-647-8388
MA	Claffin Assoc Bedford	617-275-8318
MO	Technical Sales Assoc St Louis	314-521-2044
NM	Grady Moore Assoc Albuquerque	505-298-0998
PA	Rabal Assoc Huntingdon Valley	215-947-4825
DECOURSEY	ENGINEERING LAB 11828 W JEFFERSON BLVD CULVER CITY CA 90230	213-397-9688
	W DECOURSEY EMP 12 ENG 2	
DEE VAN	ENTERPRISE CO LTD 407 S PALM AVE ALHAMBRA CA 91803 TWX 910-589-1607	818-289-0310
DEGUSSA	CORP 104 NEW ERA DR SO PLAINFIELD NJ 07080	201-757-6500
S	MACK	
CA	Measure-Tech Laguna Hills	714-859-3600
IL	Automation Sales Wauconda	312-526-5175
IN	John Sukup Inc Indpls	317-253-5501
MN	Mark Co Mnpls	612-933-3026
NJ	PAR Assoc Hohokus	201-444-6200
NC	W K Hille Matthews	704-847-9125
PA	Advance Instruments Bethel Park	412-835-6200
TN	Hile Controls of TN Knoxville	615-584-0208
TX	Scientific Sales Richardson	214-231-6541
VA	Hile Controls of VA Chester	804-796-3001
WI	Allen Engrg Milwaukee	414-353-5070
DEI	10170 SORRENTO VALLEY SAN DIEGO CA 92121 TWX 910-335-1150	619-452-7840
R	WHEELAN EMP 250 ENG 10 OVER \$10,000K	
AZ	Thorson Desert States Scottsdale	602-998-2444
CO	Thorson Rocky Mtn Englewood	303-779-0660
FL	Remtek Inc Port St Lucie	305-878-6771
GA	Remtek Inc Atlanta	404-455-4705
IL	MTA Marketech Assoc Northbrook	312-291-1220
MD	Data Systems Mktg Lanham	301-577-3700
MI	Infinity Inc Southfield	313-557-7230
NH	Data Electronics Nashua	603-888-6262
NM	Thorson Desert States Albuquerque	505-293-8555
OH	Infinity Inc Bedford Hts	216-439-8146
OR	Olson & Fere Assoc Hillsboro	503-640-9660
PA	Rivco January Inc Norristown	215-631-1414
UT	Thorson Rocky Mtn Inc West Valley City	801-973-7969
WA	Olson Ferree & Assoc Bellevue	206-883-7792
WI	MTA Marketech Assoc Germantown	
FR	Ashworth Automation E Markham ON	416-495-0222
	DISTRIBUTORS	
CA	Wordage Systems Fullerton	714-738-0800
CA	Challenge Computer Palo Alto	415-960-1500
CA	Computer Media Products San Diego	619-565-7802
CA	Int'l Memory Products Santa Monica	213-450-0132
CA	Data Equipment Supply Downey	213-923-9361
CA	INMAC Santa Clara	408-727-1970
IL	Comark Elmhurst	312-834-5000
NJ	Data Research Assoc Englewood	212-564-2232
NY	Global Equipment Co Hempstead	516-485-1000
NY	Manchester Equip Co Hauppauge	516-435-1199
OK	Indel Davis Inc Tulsa	918-587-2151
TX	Suntext Data Supplies Houston	713-271-9191
VA	Word Systems Inc McLean	703-821-1500
FR	Dynamedia Ltd Montreal PQ	514-739-3183
DEK INC	3480 SWENSON DR ST CHARLES IL 60174 TWX 297284	312-377-2575
L	PAPPONE EMP 60 ENG 1	
CO	Grimes Mktg Englewood	303-740-6063
FL	Tropi-Tec Inc Plantation	305-581-0101

TN	Southern States Indus Sales Paris	901-642-0885
UT	Grimes Mktg Ogden	801-546-4029
WA	Electronic Marketing Bellevue	208-746-5915
	DISTRIBUTORS	
AZ	Waltronics Sales Tempe	602-967-1020
CA	Electronic Supply Riverside	714-683-7300
CA	Waltronics Sales Santa Clara	408-727-1200
IL	LCOMP-Chicago Addison	312-628-1400
IN	PEI/Genesis Indpls	317-637-5571
KS	L-Comp Wichita	314-291-6200
LA	Whole Sale Electronics Shreveport	318-222-2063
MD	Vertex Mid-Atlantic Hanover	301-796-5000
MA	Industrial Components No Wilbraham	413-596-3854
MI	EPC Supply Co Livonia	313-591-9100
MO	Arden Ind Prods St Paul	612-483-6681
MN	LCOMP-St Louis Maryland Hts	314-291-6200
MO	LCOMP-KC KC	816-221-2400
NJ	Federated Elect Springfield	201-376-8900
NJ	Willgold Sales Corp East Orange	201-678-7700
NY	Verity Elect Farmingdale	516-293-9880
NY	General Elec Supply Rochester	716-424-2820
NC	Electronic Mktg Charlotte	704-394-6195
OH	Electronic Mktg Corp Columbus	614-299-4161
PA	PEI/GENIS Phila	215-568-7400
TX	Wholesale Elect Dallas	214-824-3001
TX	Fort Worth Wire & Cable Ft Worth	817-332-8252
TX	Service Assoc Crowley	817-297-4604
WI	Cable Components Inc Brookfield	414-785-1060
DEL	ELECTRONICS CORP 250 E SANDFORD BLVD MT VERNON NY 10550 TWX 710 562-0130	914-699-2000
	W YOUNG EMP 180 ENG 22 \$5,000-\$10,000K ADV PGS 336, 342	
AZ	Trembley Assoc Tempe	602-967-2058
CA	A-F Sales Engrg Inc Pasadena	213-681-5631
CA	Leddy Assoc Mt View	415-969-6313
IL	Scott Assoc Elmhurst	312-279-5681
MA	Tri Tek Inc Burlington	617-272-4550
MI	Pitcher-Poulin Inc Dearborn	313-582-5450
NV	Trembley Assoc Las Vegas	702-379-9770
NM	Trembley Assoc Albuquerque	505-266-8616
NY	T & K Sales Smithtown	516-724-3456
PA	Martin Assoc Ardmore	215-649-6332
DELEVAN	DIV AMER PREC INDUS INC 270 QUAKER RD EAST AURORA NY 14052 TWX 91-293	716-652-3600
	R NAREAU EMP 350 ENG 8 OVER \$10,000K ADV PG 99	
AZ	Toward Eng Assoc Phoenix	602-955-3193
CA	Bestronics Woodland Hills	213-704-5616
CA	Advanced Technology Sales Fremont	415-651-6402
CO	High Tech Assoc Aurora	303-695-1990
DE	T A I Bellmawr NJ	609-933-2600
FL	Conley & Assoc Oviedo	305-365-3283
IL	Momak Sales Downers Grove	312-963-6400
IN	Walter W Bieberich Inc Fort Wayne	219-432-2537
IA	Lorenz Sales Inc Cedar Rapids	319-377-4666
KS	S W Willard Parker	913-898-6552
MD	J A Dougherty Sales Co Lutherville	301-321-7890
MA	P J Engrg Sales Co Boston	617-924-5950
MN	G-I Sales Mendota Hts	612-454-3086
NJ	Martech Assoc Parlin	201-721-2200
NY	Tech-Mark Inc Mendon	716-624-3840
NY	Martech Assoc Manhasset	516-627-1151
OH	Electronic Salesmaster Beachwood	216-831-9555
PA	T A I Bellmawr	609-933-2600
TX	Kite Elctn Sales Co Irving	214-438-9336
WI	Momak Sales Mukwonago	414-363-7744
FR	J G Weiss Co Ltd St. Laurent PQ	514-337-5321
FR	M & K Trading Corp Deerfield Bch	305-428-6220
FR	Tekelec-Airtronic Sevres	33 1 534 75 35
FR	Universal Electronic Munchen	089-87 92 00
FR	STC Mercator Great Yarmouth Norfolk	0493-844911
FR	Rodelco BV Elect Rijswijk	070-995750
FR	Special-Ind-Milano Milano	68 87 951
FR	A S Kjell Bakke Tek Agent Lillestrom NOR	02/83 02 20
FR	BEXAB Elektronik AB Taby Sweden	08-768-05-60
FR	MULTIkomponent Helsinki	90-73 90 19
FR	Mnclao Elect Co NYC	212-764-3028
FR	Telsys Ltd Elect Eng Tel Aviv	(03) 494881-2
FR	Telcom Indus (Pty) Ltd Bryanston	011-706-7070
FR	Werner Stolz AG Baden-Dattwil	056/84 01 51
FR	CPS Intl Ltd E Farmingdale	516-694-8200
FR	Rodelco SA/NV Elect Bruxelles Belg	02-2166330
	DISTRIBUTORS	
CA	WDG Santa Clara	408-727-2500
CA	Integrated Elect Corp Chatsworth	213-998-2200
CA	R V Weatherford Co 6921 San Fernando Glendale	213-849-3451
CA	ITT Elect Dist Santa Ana	714-835-9019
FL	Summit Dist Dana	305-920-6253
IN	Radiat Dist South Bend	219-287-2911
MA	P J Eng Sply Boston	617-783-0510
NJ	Brothers Elect New Brunswick	201-238-2200
NY	Milgrat/N Y Farmingdale	516-420-9800
NY	Summit Dist Buffalo	716-884-3450
PA	Pytronics Ind Savage	301-792-0780
PA	Century Elect Comp Norristown	215-631-5400
TX	Patco Supply Co Ft Worth	817-429-8596
FR	Prelo Elctns Montreal PQ	514-389-8051
FR	R-A-E Ind Elctns Burnaby BC	604-291-8866
FR	Saynor Elctns Don Mills ON	416-445-2347
FR	FR Future Elctns Pte Claire PQ	514-694-7710
FR	Hanaro Corp Yung Dung Po-Ku, Seoul Korea	

DELL OPTICS CO INC 9226
KENNEDY BLVD NORTH BERGEN
NJ 07047 201-869-7300
B STEINFELD EMP 25 \$250-\$500K

DELTA AIR LINES INC. HARTSFIELD
ATLANTA INTL AIRPORT ATLANTA
GA 30320 TWX 54-2316 404-762-2720
G SWANSON EMP 28000 OVER \$10,000K
Sales Offices located in principal cities.

DELTA DESIGN INC 5775 KEARNY
VILLA RD SAN DIEGO CA 92123
TWX 910-335-1215 619-292-5000
B WILLIAMS EMP 150 ENG 10 OVER \$10,000K

AL Saber Assoc Huntsville 800-327-0853
AZ QPL Assoc 36 W Alameda Tempe 602-968-3289
AR PMI Gassville 501-435-2004
CA QPL Assoc Hacienda Hts 818-961-6345
CA Delta Design Santa Clara 408-727-2323
CO Specialty Sales Co Boulder 303-444-0954
FL Saber Assoc Melbourne 800-327-0853
GA Saber Assoc Norcross 800-327-0853
IL Torkelson Assoc Deerfield 312-945-8700
IN Torkelson Assoc Indpls 317-244-7867
IA Torkelson Assoc Cedar Rapids 319-373-0200
MD Scientific Assoc Cockeysville 301-321-1411
MA Newmar Assoc Lynnfield 617-245-7960
MI Technical Sales Assoc Union Lake 313-363-1427
MN Torkelson Assoc Minneapolis 612-835-2414
MO PMI Sales St Louis 314-894-0073
NJ KLS Assoc Cedar Grove 201-785-4450
NM Trembly Assoc Albuquerque 505-266-8616
NY Ossmann Instr East Syracuse 315-437-7052
NY Ossmann Instr Rochester 716-424-4460
NC Saber Assoc Clayton 800-327-0853
OH Technical Sales Assoc Dayton 513-222-1892
TX Benchmark Sales Dallas 214-980-0143
UT Specialty Sales Co West Jordan 801-561-0222
VA Scientific Assoc Fairfax 703-385-0600
WA Cunningham Sales Edmonds 206-771-4848
WI Torkelson Assoc Waukesha 414-784-7736
FR Cancoppas Ltd Oakville ON 416-845-4841

DELTA ELECTRONICS INC 5730
GEN WASHINGTON RD ALEXANDRIA
VA 22312 TWX T90-1963 703-354-3350
J NOVAK EMP 70 ENG 7 \$5,000-\$10,000K

DELTA MICROWAVE INC 840
VIA ALONDRA CAMARILLO
CA 93010 TWX 182236 805-987-6892
R REED EMP 28 ENG 3 \$1,000-\$2,500K

CA Allis Assoc Box 1256 Cupertino 408-945-8400
FL Microwave Mktg Inc 3001 Aloma Av Winter Pk 413-533-6005
MA Microwave Component Mktg 17 Cummings
Pc Woburn 714-768-0855
NJ F & M Tech Sales RD 1 Box 256 Glen Gardner 408-980-8495
TX McBride Scientific Sales 705 W Ave
B Garland 408-945-8400

DELTA PRODUCTS CORP 361
FAIRVIEW WAY MILPITAS
CA 95035 TWX 4992342 408-262-2002
E CHANG EMP 1000 ENG 76 OVER \$10,000K

DISTRIBUTORS

CA Cypress Electronics San Jose 408-945-8400
CA Cypress Electronics Torrance 213-533-6005
CA Ratel Electronics Irvine 714-768-0855
CA California Capacitor Santa Clara 408-980-8495
CA Capacitors Unltd San Jose 408-946-7676
CO Ind Electronics Englewood 303-694-9444
CT Midstate Elect Wallingford 203-265-9900
IL UPCO Dist Ltd Chicago 312-631-2020
IA Bergquist Co Cedar Rapids 319-366-8733
MA Target Elect Wellesley Hills 616-235-2545
MA ESI Westford 617-486-8495
MN Bergquist Co Mnpls 612-835-2322
OH Advacom Twinsburg 216-425-8477
PA Advacom Mckean 814-476-7774
PA Advacom Lancaster 717-299-4615
PA Advacom Expert 412-733-5400
TX Prime Distr Allen 800-526-7478

DELTA PRODUCTS INC 630
S 7TH BOX 1147 GRAND JUNCTION
CO 81502 303-242-9000
EMP 55 ENG 3 \$2,500-\$5,000K

DELTA SONIC INC 7309 E COMPTON
PARAMOUNT CA 90723 213-634-7140
J HALBERT EMP 50 ENG 6

DELTRAN DIV AMERICAN PRECISION
INDS INC 4401 GENESSEE ST
BUFFALO NY 14225 TWX 091-293 716-631-9800
J MergenHAGEN EMP 100 ENG 5 \$5,000-\$10,000K

AL MacKay Smith & Assoc Huntsville 205-539-8000
AZ Southwest Engrg Inc Tempe 602-941-2828
CA SDK & Assoc Ltd Anaheim 714-533-1454
CA Motion Control North San Jose 408-997-0544
CO High-Tech Assoc Aurora 303-695-1990
CT Alcom Intl Avon 203-673-5132
FL MacKay Smith & Assoc Orlando 305-423-4353
GA MacKay Smith & Assoc Atlanta 404-449-7444
IL Electro-Tech Mktg Assoc Chicago 312-676-3151
MD Homersmith Inc Media 215-453-2434
MN G II Sales Mendota Hts 612-454-3086
NY Martech Assoc Manhasset 516-627-1151
NC MacKay Smith & Assoc Charlotte 704-372-1188
OH ORR Assoc Parma 216-885-1324
PA Homersmith Inc Media 215-453-2434
SC MacKay Smith & Assoc Raleigh 919-851-5000
TX Scott-Tech Sales Co Dallas 214-352-7698
VA Homersmith Inc Roanoke 703-387-1600
WA Cripe Co Spokane 509-448-5349
WI Electrotech Mkt Milwaukee 414-785-9554

DELTRON CONTROLS DIV DELTROL CORP
2745 S 19TH ST MILWAUKEE
WI 53215 TWX 26871 414-671-6800
F STADLER EMP 300 ENG 10 OVER \$10,000K

AL JWL Assoc Huntsville 205-883-1712
CA Cummings & Assoc Santa Clara 408-247-8656
CA Cummings & Assoc Canoga Pk 213-340-6035
CO Cummings & Assoc Denver 303-455-6860
CT Sands Co Marion 203-628-4363
FL Jack Krutek & Assoc Lighthouse
Pt 305-941-6544
GA JWL Assoc Marietta 404-429-8010
IL E J McCaffrey & Assoc Glenview 312-272-2820
IN Nationwide Components Carmel 317-872-7207
KS Weisler & Assoc No Kan City 816-421-1679
MD Naudain Assoc Gaithersburg 301-258-5040
MA Sands Co Woburn 617-935-7495
MI W R Hummon & Assoc Farmington
Hills 313-474-0661
MN Kencotronics Inc St Paul 612-645-7717
MO Weisler & Assoc Ellsville 314-394-4543
NJ Astrorop Perth Amboy 201-826-8050
NY Omni Sales Rochester 716-342-5270
NY Astro Rep Babylon 516-422-2500
NY JWL Assoc Pineville 704-541-5750
OH Nationwide Comp Willoughby 216-946-3222
OR Control Devices NW Lake Oswego 503-244-7276
PA Providence Mktg Audubon 215-630-0629
TX Weisler & Assoc Houston 713-467-1862
UT Cummings & Assoc Mktg SLC 801-261-4836
WA Control Devices NW Bellevue 206-451-8552
WI Working Ind Sales Shorewood 414-964-2225
FR Elcom GBM Inc Pt Claire PQ 514-697-4556

DISTRIBUTORS

AL Southern Controls Montgomery 205-277-5030
AZ Electronics Parts Phoenix 602-277-7281
AR Carlton-Bates Little Rock 501-562-9100
CA Electric Switches LA 213-660-1310
CA Consolidated Parts San Jose 408-263-9521
CA C & A Elect Canoga Pk 213-340-6022
CA Western Switches Tustin 714-259-8144
CO Centennial Elect Colo Springs 303-633-4666
CT Pilgrim Elect Danbury 203-792-7274
CT Century Electric Shelton 203-736-2684
FL Control Design Altamonte Springs 305-788-3220
GA Georgia Control Ctr Atlanta 404-876-8833
IL Otto Frankenbush Chicago 312-647-0755
IL Control Design Genoa 815-784-6515
IN Control Design Indpls 317-788-4559
IA Warren Radio Davenport 319-322-5301
IA Iowa Radio Supply Cedar Rapids 319-393-4510
IA Ramco Co W Des Moines 515-225-6933
KS Kornfield Thorp Elec KC 913-321-7070
KY Computer Elect Equip Louisville 502-637-7674
LA Ind Elect Shreveport 318-222-9459
MD Harco Elect Aberdeen 301-838-7990
MA Interstate Elect Brighton 617-782-9000
MI Advent Elect Farmington Hills 313-477-1650
MN Control Design Mnpls 612-721-1629
MO Control Design St Louis 314-426-3150
MO Van Sickle Radio St Louis 314-621-5000
NE West Dodge Electric Omaha 402-393-8071
NJ Relay Specialties Oakland 201-337-1000
NJ Williams Elctr sply Edison 201-985-3700
NY Elec Equip Hempstead 212-538-5510
NY Peerless Radio Lynbrook 516-593-2121
NY Masline Elec Rochester 716-546-5373
NC Southeastern Elect Raleigh 919-828-2311
ND Border States Grand Forks 701-772-3477
OH Warren Radio Toledo 419-248-3364
OH Gateway Megatech Wickliffe 216-944-8565
OK Ardmore Elec Ardmore 405-223-3571
OK Radio Inc Tulsa 918-587-9123
OR Dunn Electric Portland 503-285-0214
PA Lindley Elec Phila 215-329-7005
PA Warren Radio Erie 814-454-5285
TN Curle Elect Chattanooga 615-266-4728
TN CED Knoxville 615-521-6262
TX ESI Midland 915-694-9657
TX R & R Elec Lubbock 806-765-7727
UT Kimball Elect SLC 801-328-2075
VA Southern Elec Staunton 703-886-6218
WI Control Design New Berlin 414-784-1015
WI Marsh Elect Milwaukee 414-475-6000
FR Power Service Markham ON 416-475-9685

DELTRONIC CRYSTAL INDUSTRIES
60 HARDING AVE DOVER
NJ 07801 TWX 136-170 201-361-2222
F STALLONE EMP 18 ENG 5 \$500-\$1,000K

DELTRON INC WISSAHICKON AVE
NORTH WALES PA 19454
TWX 510-661-8061 215-699-9261
B ZADELL EMP 180 ENG 12 OVER \$10,000K

AZ Semi-Systems Arizona Scottsdale 602-991-1151
CA James S Heaton Co Redwood City 415-367-9000
CA Gabriel & Assoc Anaheim 714-666-0660
CO Donohue Sales Co Denver 303-455-1719
FL Gillum Sales Orlando 305-857-2110
GA Mountain Electro Prods Norcross 404-448-5594
IL Technology Sales Palatine 312-991-6600
IN Valentine & Assoc Greenwood 317-888-2260
IA Rep Assoc Corp Marion 319-373-0152
KS Baka Corp Wichita 316-682-8411
MD Macrotech Assoc Glen Burnie 301-437-5588
MI Kanan Assoc Needham Hts 617-449-7400
MI Dave Ray & Assoc Royal Oak 313-280-0000
MN International Electronics Mnpls 612-571-0000
NE Baka Corp Wichita 316-682-8411
NY J-Square Mktg Jericho 516-935-3200
NY Advanced Components North
Syracuse 315-599-2671
OH Makin & Assoc Cincinnati 513-871-2424
TX Tesco Garland 214-681-1376
UT Anderson Assoc Bountiful 801-292-8991
WI Technology Sales Milwaukee 414-744-6842

FR Gidden-Morton Assoc Mississauga
ON 416-671-8111

DISTRIBUTORS

AZ Hall Elect Scottsdale 602-946-9977
CA Cypress Elect Torrance 714-761-3368
CA HDB Electronics Redwood City 415-368-1388
CO Industrial Electronics Englewood 303-694-9444
FL Dielco/Comps South Ft Lauderdale 305-973-8700
IN Farrell Argast Elec Co Indpls 317-546-404
KS RSC Elect Wichita 316-267-5213
MD Aztech Elect Columbia 301-621-4863
MA A W Moyer Co Billerica 617-229-2253
MI Wedemeyer Elect Sply Ann Arbor 313-665-8631
NJ Nu-Horizons Elect Fairfield 201-882-8300
NM Beta Tron Albuquerque 505-344-2323
NY Nu-Horizons Elect Farmingdale 516-694-2500
NC Lakeland Engrg Equip Charlotte 704-597-0044
OH Martin Electric Co Dayton 513-228-5141
PA Peak Electronics Wayne 215-293-9000
TX Southwest Elect Stafford 713-240-4000

DENNIS CHEMICAL CO 2700 PAPIN ST
ST LOUIS MO 63103 314-771-1800
C SEGER EMP 80 ENG 5 OVER \$10,000K

DENNISON MFG CO FASTENER DIV
300 HOWARD ST FRAMINGHAM
MA 01701 TWX 920-407 617-879-0511
M HADJUK EMP 2500 OVER \$10,000K

CA R Gerleman Redwood City 415-365-6736
CA G Curtis A Gingerelli City
of Industry 213-968-0588
FL B Cooper H Schweitzer Altamonte
Sprgs 305-830-1548
IL M Barone Des Plaines 312-298-8870
MI M Hanks Farmington 617-879-0511
MI D Shearn J Portelli Southfield 313-354-7400
MO P Kilroy St Louis 314-569-3050
NY C Krupp Armonk 914-273-6550
NC M Hooks Gastonia 704-867-8313
OH D Harker Cincinnati 513-621-0863
PA W Rudolph Wayne 215-687-9800
TX D Sickle Dallas 214-680-9840

Sales Offices in all Principal Cities Call
toll free 800-225-5913 for names of Local
Representatives & Distributors.

DENSAN DIV PASCOT INC 17981
SKYPARK CIRCLE IRVINE
CA 92714 714-261-5220

J BAIREY EMP 70 ENG 28 \$5,000-\$10,000K

AL Mountain Electro Prods
Huntsville 205-533-0088
CA Computer Modules Sunnyvale 408-737-7772
CA Qualeth Assoc Thousand Oaks 805-495-7100
CT Digital Sales Assoc Hamden 203-248-3636
GA Mountain Electro Prods Sanford 305-425-0688
IL Mar Con Assoc Skokie 312-675-6451
IL Mountain Electro Prods Norcross 404-448-5559
KS Panatek Tech Sales Shawnee
Mission 913-362-3341
MD Simcomp Inc Baltimore 301-358-7870
MA Digital Sales Assoc Waltham 617-899-4300
MN Micro Resources Corp Edina 612-830-1450
NJ Gebhardt Mktg Springfield 201-376-4411
NC Mountain Electro Prods Raleigh 919-876-9688
OH Dolfuss-Root Co Strongsville 216-238-0300
OK Robison Assoc Tulsa 918-665-3566
PA Monument Tech Assoc Jenkintown 215-884-3731
TX Dyna Mktg Irving 214-438-6522
WA Westerberg & Assoc Bellevue 206-453-8888

DENSITRON CORP 20775 S
WESTERN AVE TORRANCE CA 90501
TWX 910-349-6200 213-618-9644
R TURNER EMP 65 ENG 10 OVER \$10,000K

AL Electronic Mktg Assoc Huntsville 205-837-7366
AZ Chaparral Electronics Phoenix 602-252-0889
CA Component Mktg Assoc Lomita 213-326-1461
CA Component Mktg Assoc San Mateo 415-345-7377
CA Component Mktg Assoc Laguna Hills 714-951-6025
CO Delconec Inc Arvada 303-422-7022
FL E P M Corp Margate 305-755-5338
FL E P M Corp Orlando 305-425-6148
GA Electronic Mktg Assoc Atlanta 404-448-1211
IL Bob Burns & Assoc Park Ridge 312-775-1233
IA Ensco Rep Inc Davenport 319-386-6600
KS Ensco-Rep Inc Overland Park 913-381-7551
KS Ensco-Rep Inc Lenexa 913-541-0408
KS Ensco-Rep Inc Wichita 316-683-1077
MA Nova Assoc Braintree 617-848-9339
MI R C Nordstrom & Co Lathrup Vlg 313-559-7377
MI R C Nordstrom & Co Henison 616-457-5762
MN Electro-Serv Minneapolis 612-338-3473
MO Ensco-Rep Inc Maryland Hts 314-423-3939
NY Optimum Sales Co Mastic 516-589-4664
NY J G Welch Assoc Rochester 716-244-1100
NY J G Welch Assoc Utica 315-736-7822
NC Electronic Mktg Assoc Raleigh 919-847-8800
OH Dynel Co Worthington 614-436-9452
PA Metz-Benham Assoc Wynnwood 215-896-0631
SC Electronic Mktg Assoc Greenville 803-233-4633
TX Delta Components Seagoville 214-287-6333
TX Delta Components Austin 512-458-4822
UT Delconec Inc SLC 801-531-6177
WA J J Assoc Seattle 206-246-6615

DENTRONICS INC 60 OAK ST
HACKENSACK NJ 07601 201-343-9405
E MULRANE EMP 42 ENG 3 \$1,000-\$2,500K

CA R D X Sunnyvale 408-734-4500
CA R D X Pasadena 213-681-3457
NY Dentronics Glenhead 516-671-2666
FR B McGregor Toronto, Ont 416-0X9-5522

DEPOSITION TECHNOLOGY INC 8963 CARROLL WAY SAN DIEGO CA 92121 TWX 249077 R WALT EMP 90 ENG 10	619-578-9400
DERINGER MFG CO 1250 TOWN LINE RD MUNDELEIN IL 60060 TWX 910-685-4321 R DAVIS EMP 210	312-566-4100
NY Fowler Beach Corp Rochester	586-0468
DESCO INDUSTRIES INC 761 PENARTH AVE WALNUT CA 91789 W HUNTER EMP 10 ENG 1 \$250-\$500K	714-598-2753
DESIGNATRONICS INC SUB AUTOMATIC COIL 2101 JERICHO TPK NEW HYDE PARK NY 11040 TWX 810-848-8097 V FERNANDEZ EMP 700 ENG 7 \$5,000-\$10,000K	516-328-3333
AL CSR Electronics Huntsville	205-533-2444
CA Mil-Com Sales Co Huntington Beach	714-840-2424
GA CSR Electronics Dunwoody	404-396-3720
KY Rockford Controls Dayton	513-898-5452
MD CSDS Laurel	301-490-3800
MN Holmgren Associates Spring Lake Park	612-786-7641
OH Rockford Controls Cleveland	216-731-5250
OK MGR Electronics Bixby	918-369-5186
TX MGR Electronics Dallas	214-238-5246
DESIGN AUTOMATION INC 809 MASSACHUSETTS AVE LEXINGTON MA 02173-3992 N SOKAL EMP 7 ENG 6 \$250-\$500K	617-862-8998
DESIGNED ENCLOSURES INC DBA DEI TELEPRODUCTS 230 N MARKET PL ESCONDIDO CA 92025 M PEDOTE	619-743-8344
AZ Barnhill Scottsdale	602-947-7841
CA Mark Assoc LA	213-641-1840
CA Comlink Sacramento	916-922-5416
CO Barnhill Denver	800-825-9719
IL Reshal Schaumburg	312-397-9010
MN Reshal Minneapolis	612-941-8697
NJ Dana Net Inc Englewood	201-569-2353
NM Barnhill Albuquerque	505-299-7658
TX Barnhill Richardson	214-231-2573
UT Barnhill Murray	801-262-3000
WA Rep-Sac Corp Kirkland	206-451-8600
DESIGN TECHNOLOGY 7760 VICKERS ST SAN DIEGO CA 92111 M GOLDEN EMP 35 ENG 3 \$1,000-\$2,500K	619-268-8194
DESIGN TECHNOLOGY CORP 5 SUBURBAN PARK DR BILLERICA MA 01821 TWX 4492-526 J SHOEMAKER EMP 60 ENG 20 \$5,000-\$10,000K	617-663-7000
DESPATCH INDUSTRIES INC BOX 1320 MINNEAPOLIS MN 55440 TWX 29-0704 T TONER EMP 500 ENG 50 OVER \$10,000K	612-331-1873
CA Montes-Swanson Assoc Sunnyvale	408-737-2767
CA Lyle Smith Co La Canada	818-952-3351
CO T C Jarrett Co Littleton	303-741-1144
CT Etter Engrg Co Hamden	203-288-3575
FL Dichter Engrg St Petersburg	813-343-1041
GA Dichter Engrg Co Atlanta	404-873-1338
IL Hoge & Assoc Elgin	312-697-4770
IN W R Frew Co Indpls	317-253-3271
KY W R Frew Co Louisville	502-451-4616
MD Berwanger & Co Upperco	301-374-5354
MA Etter Engrg Co Chelmsford	617-256-0980
MI Hartmann Equipment Grosse Pte Farms	313-886-1345
MN Design-Tec Inc Mnpls	612-835-5811
NJ Inman Assoc Belford	201-787-5504
NY Nickles Engrg Co Rochester	716-586-4988
NC Sloan Carolinas Inc Charlotte	704-523-2122
OK Wagner-Sullivan Co Cleveland	216-464-8350
OH Energy Efficiency of Tulsa Tulsa	918-429-5743
OR Hartley Corp Lake Oswego	503-635-4361
TX Selle Alloys & Equip Co Houston	713-524-3013
VA Sloan Assoc Charlottesville	804-973-6662
WA Hartley Corp Seattle	206-872-2000
DEST CORP 1201 CADILLAC CT MILPITAS CA 95035 TWX 299823 EMP 140 ENG 30 OVER \$10,000K	408-946-7100
DE-TEC-TRONIC CORP 957 GRACE ST ELGIN IL 60120 TWX 9102210148 C KENT EMP 17 ENG 4 \$250-\$500K CA Cesco 122 W 5 St Long Beach CT Techmark Corp Cheshire	312-695-9150 213-432-7444 203-272-7131
DETRONICS CORP 10660 E RUSH ST SEL MONTE CA 91733 TWX 910-587-3436 EMP 60 ENG 5 \$1,000-\$2,500K	818-579-7130

DETROIT COIL CO 2435 HILTON RD FERNDAL MI 48220 TWX 810-232-4921 C CYLER EMP 120 ENG 7	313-398-5600
DETROIT DIESEL ALLISON DIV 13400 W OUTER DR AZ6 DETROIT MI 48239-4001 TWX 810-221-1649 W BRADFORD EMP 22000 ENG 500 OVER \$10,000K	313-592-5000
CA Det Diesel Allison Div Fremont	415-498-5200
GA Det Diesel Allison Div Atlanta	404-257-3630
IL Det Diesel Allison Div Naperville	312-961-6750
NJ Det Diesel Allison Div Parsippany	201-993-4040
TX Det Diesel Allison Div Irving	214-659-5070
DISTRIBUTORS	
CA Valley Detroit Diesel City of Industry	213-333-1243
CA Valley GM Diesel Bakersfield	805-325-9001
FL Coastal Power Products W Jacksonville	904-737-7330
IL Western Engine Addison	312-620-2000
KS Diesel Equip Co Wichita	316-943-1231
LA George Engine Co Harvey	504-347-4326
MS Kennedy Engine Co Biloxi	601-392-2200
NJ Penske GM Power Lodi	201-489-5800
NJ Johnson & Towers Mt Laurel	609-234-6990
OR Pacific Diesel Power Portland	503-283-0505
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PA Keystone Diesel Engine Wexford	412-776-3237
TX Stewart & Stevenson Houston	713-671-6100
VA Western Branch Diesel Portsmouth	804-484-6230
WA Spokane Diesel Spokane	509-535-3663
DEUTSCH ENGINEERED CONNECTING DEVICES MUNICIPAL AIRPORT BANNING CA 92220 TWX 910-332-1361	714-849-7822
DISTRIBUTORS	
CA Richey-Western Garden Grove	714-895-0060
NY Milgray Farmingdale	516-420-1840
DEVCO ENGINEERING INC PIER LANE WEST FAIRFIELD NJ 07006 TWX 139-340 R WEST EMP 56 ENG 8 \$2,500-\$5,000K	201-228-0321
DEVCON CORP ENDICOTT ST DANVERS MA 01923 C STEVENS	617-777-1100
DEVELOCO INC 175 NORTECH PKWY SAN JOSE CA 95134-2306 TWX 910-339-9295 W BAKER EMP 75 ENG 20 \$5,000-\$10,000K	408-943-6600
TX Develco Inc Houston	713-436-9600
VA Sphere Assoc Reston	703-471-7887
DEVELCON ELECTRONICS INC 744 NINA WAY WARMINSTER PA 18974 TWX 275-194 J ROBERTS EMP 250 ENG 80 OVER \$10,000K	215-443-5450
CA R L Hendrickson San Carlos	415-594-1058
CA R Senzig Mission Viejo	714-831-7369
DC B Foster Washington	202-483-3645
FL C Lunt Clearwater	813-796-1424
GA J Dieudonne Atlanta	404-956-0858
IL L Hasenberg Roselle	312-980-1984
MN R Gall Fridley	612-780-4453
NH T Kimble Bedford	603-472-2575
NJ K Biegert Mt Laurel	609-234-6226
NJ J Felice Rummee	609-939-3589
OH L Sherman Cincinnati	513-821-1877
OH K Jenkins Medina	216-273-5856
TX K Payne Richardson	214-234-4951
WI T Haack Mukwonago	414-363-3993
DISTRIBUTORS	
CA Comlink Inc Sacramento	916-922-5416
CA Ezra Mintz Assoc LA	213-670-5410
CO Data Systems West Littleton	303-794-8330
IL Data Accessories Dist Hinsdale	312-850-7488
MD Systems & Services Rockville	301-231-9650
MN Quality Communications Andover	612-27-9108
MN Computer Systems Products Mnpls	612-338-0995
MO Engineering Services St Louis	314-997-1515
NE CR Services Omaha	402-397-2181
NJ R J Consultants Farmington Hills	313-53-9117
NY MTI Systems Corp Port Washington	516-621-6200
NC Jas L Highsmith & Co Charlotte	704-527-2382
NC Mizell Terminals & Svcs Garner	919-772-6205
VA Data Commun Systems Manassas	703-361-2666
DEVELOCON MFG CORP 2405 S 20 ST PHOENIX AZ 85034 TWX 910-951-4247 EMP 40 ENG 4 \$1,000-\$2,500K	602-258-8244
DISTRIBUTORS	
AZ BFA Corp Scottsdale	602-994-5400
CA Budget Computers San Diego	714-571-2763
CA EDC Dublin	415-783-3962

CA Sherman & Assoc LA	213-397-0598
CA Telex Comm & Equip Sys LA	213-380-7575
CO BFA Denver	303-837-1247
FL Omni Data Inc St Petersburg	813-576-2985
IL MRC Industries Park Ridge	312-698-3377
IA Deeco Inc Cedar Rapids	319-365-7551
MD CSDS Laurel	301-490-3800
MI Computer Store Ann Arbor	313-995-7616
MI ICMS Ann Arbor	313-995-7616
MI Milford Scientific Union Lake	313-363-1427
NM BFANM Albuq	505-292-1212
NY MTI Sales Great Neck	516-482-3500
NY National Teletype Plainview	516-293-0444
NY Atlantic Computer Brooklyn	212-376-5254
NC Mizell Terminals & Systems Garner	919-772-6205
OH D & B Data Sys Galloway	614-878-3590
OR Peacock Computers Portland	503-232-7280
PA MCS Computer Systems Scranton	717-344-1732
TX Atmore Systems Houston	713-932-8945
TX J H Minicom Dallas	214-631-7637
VA Synon Inc McLean	703-442-4980
WA Dynamic Systems Mukilteo	206-745-5311
DEVICE CLOSURES DIV MIRRO-ETCH PRODS INC 94 DODGE AVE BOX 9712 STRATFORD CT 06497 F DICHARA EMP 8 ENG 1 \$500-\$1,000K	203-378-4052
MA M Sault	617-823-1715
NH F Dichara	603-429-0505
NJ J Benedick	201-369-3312
DEWAL INDUSTRIES INC 15 RAY TRAINER DR BOX 372 SAUNDERSTOWN RI 02874 D ESPOSITO EMP 30 ENG 2 \$2,500-\$5,000K	401-789-9736
DEWEY ELECTRONICS CORP 27 MILLER RD OAKLAND NJ 07436 TWX 710-990-6611 EMP 160 ENG 15 OVER \$10,000K	201-337-4700
DEYOUNG MFG INC 12520 NE 125 WAY KIRKLAND WA 98034 T JOHNSON EMP 70 ENG 3 \$1,000-\$2,500K CA J V Earley & Assoc Irvine	206-823-4798 714-833-1806
DEXTER RESEARCH CENTER INC 7300 HURON RIVER DR DEXTER MI 48130 TWX 575075 R TOTH EMP 14 ENG 3 \$500-\$1,000K	313-426-3921
MN CT Sales Inc Mnpls	612-374-1241
NY Irondequoit Industries Rochester	716-544-6257
DH TECHNOLOGY INC 575 MAUDE CT SUNNYVALE CA 94086 TWX 171570 D IRBY EMP 100 ENG 5 \$5,000-\$10,000K	408-738-2082
IL Coombs Assoc Arlington Hts	312-439-9810
IN Coombs Assoc Ft Wayne	219-747-7661
IA Coombs Assoc Cedar Rapids	319-362-4116
WI Coombs Assoc Milwaukee	414-351-6123
DIALIGHT CORP 203 HARRISON PL BROOKLYN NY 11237 TWX 710-584-5487 J JAFFE EMP 400 ENG 12 OVER \$10,000K	718-497-7600
AZ Westrep Phoenix	602-997-8899
CA Westrep Anaheim	213-404-3881
CA Moulthrop Sales Pleasanton	415-463-0450
CO Component Prods Sales Co Boulder	303-530-2800
FL Cartwright & Bean Orlando	305-422-4531
GA Cartwright & Bean Atlanta	404-233-2939
IL Dolin Sales Co Northbrook	312-498-6770
IN Electronic Repts Inc Indpls	317-894-1414
KS Advanced Tech Sales Olathe	913-782-8702
LA Cartwright & Bean Covington	504-892-1780
MA Northeast Repts Hingham	617-749-8700
MI Hilltronics Inc Ferndale	313-398-5556
MN Professional Sales for Industry Mnpls	612-944-8545
NY Gen-Tech Electronics Liverpool	315-451-3480
NC Cartwright & Bean Charlotte	704-377-5673
OH K W Elctns Sales Dayton	513-890-2150
OR Electronic Sources Tigard	503-684-0040
PA L D Lowery Inc Broomall	215-528-5110
TN Cartwright & Bean Memphis	901-276-4472
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UT Component Prods Sales Co Woodcross	801-292-8882
WA Electronic Sources Bellevue	206-451-3500
FR Longman Sales Mississauga ON	416-677-8100
FR Arwin Tech Sales Ltd N Vancouver BC	604-980-4557
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CA Diplomat Westates Elect Chatsworth	213-341-4411
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CA Fisher/Brownell Santa Clara	408-988-6041
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FL	Hammond Elect Orlando	305-849-6060
GA	Specialty Dist Atlanta	404-873-2521
IL	Newark Elect Chicago	312-784-5100
IL	Classic Comps Sup Northbrook	312-272-9650
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NE	Scott Elect Sup Lincoln	402-466-8221
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NJ	Federated Purchaser Kenilworth	201-272-0505
NJ	Resco Elect Pennsauken	609-662-4000
NY	Summit Dist Buffalo	716-884-3450
NY	Rome Elect Rome	915-337-5400
NY	Anear Elect Sup Elmsford	914-592-7100
NY	Arrow Elect Farmingdale	516-694-6800
NY	Peerless Radio Lynbrook	516-593-2121
NY	ASI Elect Endwell	607-754-3823
NC	Hammond Elect Greensboro	919-275-6391
NC	Southeastern Electronics Raleigh	919-828-2311
OH	Hughes-Peters Cinc.	513-351-2000
OH	Pioneer/Cleve Cleve	216-587-3600
OH	Stotts-Friedman Co Dayton	513-298-5555
OH	Repco Solon	216-248-8906
OH	Akron Elect Akron	216-762-8818
OH	Sun Radio Akron	216-434-2171
OH	Pioneer/Dayton Dayton	918-586-9900
OK	Radio Inc Tulsa	918-587-9123
OR	Almac Elect Beaverton	503-641-9070
PA	Pyttroic Ind Montgomeryville	215-643-2850
PA	Almo Elect Phila	215-698-4000
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PA	CAM RPC Ind Elect Pittsburgh	412-782-3770
PA	Advacom Ind Elect McKean	814-476-7774
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DIAMOND ANTENNA & MICROWAVE CORP		
35 RIVER ST WINCHESTER		
MA 01890 TWX 710-348-1066		
T GLAZE EMP 20 ENG 5 \$1,000-\$2,500K		
617-729-5500		
AZ	Spectrum Assoc SW Tempe	602-966-1788
CA	The Marketing Co San Jose	408-926-0372
CA	RF Assoc LA	213-478-1586
NJ	Harry J White Co Cherry Hill	609-428-4544
NM	IMEC Albuquerque	505-883-9010
TX	Carl Tinch Sales Co Richardson	214-231-1322
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CAMERON RD ORANGEBURG		
SC 29115		
H STEPPE EMP 675		
803-534-7010		
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AZ	Dillon-Stevens & Co Phoenix	602-841-8558
CA	Dillon-Stevens & Co Los Angeles	213-747-9221
CO	Regional Sales Co Denver	303-433-7397
CT	Neff Co Woodstock	203-974-1281
KS	R W Kunz Assoc Prairie Village	913-648-9221
MI	Met Lestock & Assoc Livonia	313-591-1802
MN	Restronics Co Edina	612-941-9135
NY	S & B Industrial Sales	
OR	Orchard Pk	716-662-5988
OR	Northcoast Mfrs' Agency	
IL	Gladstone	503-657-9427

DIAMONTE PRODUCTS 453		
W MCCONKEY ST SHREVE OH 44676		
TWX 986342		
216-567-2145		
D WILES EMP 250 ENG 5		
FL	Rebo Entrps Winte Haven	813-324-6616
IN	Hoster & Siefolf Assocs Indpls	317-842-3700
KS	TMR Materials Co Lenexa	913-888-2806
NJ	H W Good Co Brielle	201-528-5251
NY	Wadsworth Mfg Assoc Liverpool	315-652-6865
NY	C H P Sales Pittsford	716-381-8800
NC	Payne Engrg Sales Chapel Hill	919-299-8161
OH	Schumann Services Richfield	216-659-4777
RI	Schumacher & Yarrington Warwick	401-884-5671
TX	B C Industrial Sales Co	
	Duncanville	214-780-6037
WI	McReps Inc Oconomowoc	414-567-9731

DIANACHART INC 129 HIBERNIA AVE		
ROCKAWAY NJ 07866		
201-625-2299		
D BRODIE EMP 12 ENG 4 \$1,000-\$2,500K		

DI/AN CONTROLS INC 944		
DORCHESTER AVE BOSTON		
MA 02125 TWX 710-333-1732		
617-288-7700		
C ASPINWALL EMP 120 ENG 12 \$2,500-\$5,000K		

DIEBEL MFG CO 6505 W OAKTON ST		
MORTON GROVE IL 60053		
312-463-3100		
R NELLEMAN EMP 142 ENG 6 OVER \$10,000K		
AZ	Service & Sales Tempe	602-968-9084
CA	HIP Marketing Tustin	714-544-9314
CA	Fuller Mirge So San Francisco	415-344-7787
CO	Larry R Barland Co Denver	303-433-8597
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619-587-1925		

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SIGNAL TOWER HILL RD RAYMOND		
ME 04071 TWX 710-229-6890		
207-655-4555		
R BROADHEAD EMP 270 ENG 25 OVER \$10,000K		
ME Toll Free		
800-341-9678		

DIE-TECH INC 295 SIPE RD		
YORK HAVEN PA 17370		
TWX 754152		
717-938-6771		
J WOLF EMP 70 ENG 5 \$2,500-\$5,000K		

DIETZ CO INC HENRY G 14-26		
28TH AVE LONG ISLAND CITY		
NY 11102		
718-726-3347		
M PHEASEY EMP 20 ENG 2 \$250-\$500K		
FR Export Agencies Intl Corp Box 1000		
Freeport NY		

DIETZ DESIGN INC 100 ELECTRONICS		
PKWY BELTON MO 64012		
816-331-4911		
EMP 90 ENG 4 \$1,000-\$2,500K		
CA	Crown Electronics No. Hollywood	213-877-3550
CA	Westronics Assoc Woodside	415-851-2703
CO	White Sales Co Englewood	303-694-9555
GA	Component Specialties Intl	
	Norcroft	404-889-2769
MO	Zinsmaster & Assoc KC	816-333-6233
NJ	Bob Cameron Assoc Garfield	201-777-0222
OK	Golden Role Claremore	918-266-3663
VA	X-Sell Co Alexandria	703-780-8468

DIETZGEN CORP 250 WILLE RD		
DES PLAINES IL 60018		
312-635-5200		
EMP 100 ENG 4		

DIGIAC CORP 19 POWER DR		
HAUPPAUGE NY 11788		
516-234-2100		
L RAMOS EMP 40 ENG 5 \$2,500-\$5,000K		

DIGI-DATA CORP 8580 DORSEY		
RUN RD JESSUP MD 20794		
TWX 87-580		
301-498-0200		
A GRAMS EMP 75 ENG 5 OVER \$10,000K		
CA	Eakins Assoc Mt View	415-969-5109
MA	Comark Inc Medfield	617-359-8161
NY	Crane & Egert Corp Elmont	516-872-0800
NY	RG Engrg Rochester	716-424-7492
OH	Seltech Mktg Columbus	614-451-3865
FR	Electralert Ltd Markham ON	416-475-6730

DIGI-LOG CIRCUITS CO 5711		
TANNAHILL CIR HUNTSVILLE		
AL 35802		
205-881-7886		

DIGILOG INC 1370 WELSH RD		
MONTGOMERYVILLE PA 18936		
TWX 510-661-0060		
215-628-4530		
C HAGERTY EMP 162 ENG 50 OVER \$10,000K		
AL	Mid-South Data Ind Birmingham	205-942-2453
AZ	BFA Scottsdale	602-954-5400
CA	H Draper San Jose	408-263-0819
CA	M Cukosky Diamond Bar	714-861-5041
CO	BFA Denver Denver	303-777-8070
CT	Telecomm Systems Assoc Stamford	203-329-2523
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	Triangle	919-544-7282
OH	Mecom Inc Rising Sun	419-457-3231
PA	James Fox Assoc Newtown	215-598-3293
TX	L McDaniel Garland	214-495-4393
UT	BFA Salt Lake City	801-486-8522
WA	SJI Corp Seattle	206-763-8981

DIGIMAX INSTRUMENTS CORP		
8560 PRODUCTION AVE SAN DIEGO		
CA 92123		
619-578-7171		
D BURTON EMP 10 ENG 2 \$250-\$500K		

DIGIMETRICS INC 4947 COMMERCIAL		
DR YORKVILLE NY 13495		
315-736-0158		
M LINKIEWICZ EMP 10 ENG 2 \$500-\$1,000K		

DISTRIBUTORS		
CA	Mytech Assoc 2080B Walsh	
	Av Santa Clara	408-727-4240
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IL	J & M Tech Sales Chicago	312-992-2140
IN	Equip & Supply Indpls	317-251-9406
MA	Tech-Reps Reading	617-944-6800
MI	Walch Engrg Co Spring Lake	616-846-2944
NY	The Solder Pot Guilderland	518-355-1829
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PA	C W Middlestead Co Newtown Sq	215-528-5092
TN	Withers & Assoc Chattanooga	615-894-6897
TX	P J Scanlon Co Dallas	214-231-4661
FR	Mawer Sales Ltd Oakville ON	416-485-2265
FR	Consolidated Cybernetics	
	Controls Ltd 4650 St	
	Catherine W Westmount PQ	819-934-0000

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BOX 4203 EAST PROVIDENCE		
RI 02914 TWX 955 318.....		
401-434-3440		
P CROWTHER JR EMP 10 ENG 4 \$250-\$500K		
CA	Chas P Crowley Co LA	213-723-6555
CA	Thos J Campbell Co Burlingame	415-342-7007
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MN	Northwestern Power Equip	
	Co St Paul.....	612-646-7904
OH	H R Bowers Co Cleveland	216-221-8442
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TX	C J Wolfer Co Houston	713-526-1335
FR	Hajlon Sales Markham ON.....	416-474-0980
FR	Blark & Baird Ltd Vancouver BC	604-261-2232

DCA Mpls.	612-546-0273
Dytec South Maryland Hts.	314-569-2990
Dytec South Omaha	402-345-6477
DCA Mt Laurel	609-234-1814
DCA Albuquerque	505-262-2263
Technology Consortium Islip	516-293-6898
DCA Greensboro	919-292-1075
Gerhard & Assoc Columbus	614-488-9751
DCA Portland	503-297-5676
DCA Blue Bell	215-275-0658
DCA Hendersonville	615-822-7469
DCA Dallas	214-484-5651
DCA McLean	703-749-1444

DIGITAL DATA SYSTEMS INC	
1551 NW 65 AVE PLANTATION	
FL 33313 TWX 910-997-4751	305-792-3290
F SIMON EMP 15 ENG 7 \$1,000-\$2,500K	

DIGITAL DYNAMICS INC 275	
TECHNOLOGY CIRCLE SCOTTS	
VALLEY CA 95066	408-438-6823
EMP 15 ENG 6 \$1,000-\$2,500K	

DIGITAL ELECTRONICS CORP	
26142 EDEN LANDING RD2	
HAYWARD CA 94545 TWX 172073D	415-786-0520
J MCKINNEY EMP 49 ENG 12	
Magaro & Assoc Huntsville	205-883-0208
Qualtech Inc Phoenix	602-967-4655
D Young Los Angeles	213-540-9322
R L Christensen & Co Hayward	415-786-0617
Deeco Littleton	415-786-0520
Synergetic Repts Largo	813-586-2871
Magaro & Assoc Atlanta	404-451-8862
Context Systems Hinsdale	312-655-4850
Palatine Eng & Sales Cedar	
Rapids	319-365-8071
Palatine Eng & Sales Mission	913-831-0555
SKM Ashby Assoc Union Lake	313-363-1100
Palatine Eng & Sales Hazelwood	314-839-0800
Controltyne Inc Montclair	201-746-8900
Qualtech Inc Albuquerque	505-243-5605
Magaro & Assoc Greensboro	919-294-4783
Ashby Assoc Dayton	513-252-5627
Advance Technical Sales Tulsa	918-664-0482
Advance Technical Sales Dallas	214-340-1300
Tech Repts Inc Springfield	703-569-6868
Underwood Hanify Co Bellevue	206-451-8223
Synergetic Repts San Juan PR	809-762-2688

DIGITAL EQUIPMENT CORP	
146 MAIN ST MAYNARD MA 01754	
TXW 710-347-0212	617-897-5111
J SHIELDS EMP 85000 ENG 7250 OVER \$10,000K	
Digital Equip Corp Birmingham	205-969-1917
Digital Equip Corp Anchorage	907-561-4660
Digital Equip Corp Phoenix	602-267-1364
Digital Equip Corp Little Rock	501-225-6080
Digital Equip Corp San Francisco	415-399-3600
Digital Equip Corp Santa Clara	408-727-0200
Digital Equip Corp Denver	303-649-3000
Digital Equip Corp Meriden	203-634-5367
Digital Equip Corp Wilmington	302-995-2111
Digital Equip Corp Washington	202-429-9200
Digital Equip Corp Miami	305-652-6841
Digital Equip Corp Atlanta	404-252-2600
Digital Equip Corp Honolulu	808-524-1943
Digital Equip Corp Boise	208-375-7090
Digital Equip Corp Arlington Hts.	312-394-6000
Digital Equip Corp Indpls	317-848-8818
Digital Equip Corp Des Moines	515-282-0056
Digital Equip Corp Wichita	316-832-7000
Digital Equip Corp Louisville	502-458-9561
Digital Equip Corp New Orleans	504-832-8200
Digital Equip Corp Portland	207-774-6600
Digital Equip Corp Landover	301-459-7900
Digital Equip Corp Burlington	617-273-6500
Digital Equip Corp Detroit	313-348-8900
Digital Equip Corp Mpls	612-853-9600
Digital Equip Corp Jackson	601-957-2702
Digital Equip Corp St Louis	314-991-6400
Digital Equip Corp Billings	406-248-1863
Digital Equip Corp Omaha	402-330-5610
Digital Equip Corp Las Vegas	702-737-3145
Digital Equip Corp Bedford	603-472-8821
Digital Equip Corp Piscataway	201-562-4000
Digital Equip Corp Cherry Hill	609-665-8711
Digital Equip Corp Albuquerque	505-345-4471
Digital Equip Corp New York	212-971-3349
Digital Equip Corp Rochester	716-223-2360
Digital Equip Corp Charlotte	704-525-7150
Digital Equip Corp Fargo	701-293-7144
Digital Equip Corp Cincinnati	513-489-2500
Digital Equip Corp Okla City	405-949-2929
Digital Equip Corp Portland	503-245-1341
Digital Equip Corp Blue Bell	215-825-4200
Digital Equip Corp Providence	401-438-6750
Digital Equip Corp Columbia	803-798-9494
Digital Equip Corp Memphis	901-761-6700
Digital Equip Corp Houston	713-953-3500
Digital Equip Corp SLC	801-268-3392
Digital Equip Corp Burlington	802-864-5244
Digital Equip Corp Richmond	804-285-1700
Digital Equip Corp Seattle	206-453-5500
Digital Equip Corp Charleston	304-766-6158
Digital Equip Corp Milwaukee	414-784-1311

DISTRIBUTORS	
Symbolic Systems Summit	201-277-6100
Key Financial Systems Pine Brook	201-227-8800

GITAL MICROSYSTEMS 1755	
EMBARCADERO OAKLAND CA 94606	
TXW 910-366-7310	415-532-3686
V TEMPLETON EMP 100 ENG 15 \$5,000-\$10,000K	

DIGITAL PRODUCTS INC 108	
WATER ST WATERTOWN MA 02172	
TXW 312345	617-924-1680
J HARVEY EMP 17 ENG 6	

DIGITAL TECHNOLOGY ASSOCIATES	
1210 OAKMEAD LA LAVERNE	
CA 91750 TWX 5106002002	714-596-4145
S PAULY EMP 4 ENG 2 UP TO \$100K	

DIGITEC BOX 458 DAYTON	
OH 45401 TWX 810-459-1728	513-254-6251
U TROXEL EMP 134 ENG 35 \$5,000-\$10,000K	
AL W A Brown Huntsville	205-883-8660
CA IFM Inc Mt View	415-961-2828
CA A W C Inc Paramount	213-634-9360
CO Fry-Gates Co Englewood	303-795-9176
CT R J Sickles Assoc Waterbury	203-755-0400
DE Sci-Rep Cherry Hill NJ	609-482-0059
FL W A Brown	305-425-5505
IL Marsland Assoc Des Plaines	312-298-2620
IN Marsland Assoc Indpls	317-924-3568
IA Marsland Assoc Cedar Rapids	319-396-8030
KS Marsland Assoc Shawnee	913-631-5400
KY Comtel Inst Dayton OH	513-298-7573
MA R J Sickles Assoc Lexington	617-862-5100
MI Comtel Inst Southfield	313-358-2505
MN Marsland Assoc Mpls	612-545-4481
MO Marsland Assoc St Louis	314-878-2402
NJ KLS Cedar Grove	201-785-4450
NM Fry-Gates Co Albuq	505-298-1875
NY Glen Instruments Glens Falls	518-798-1993
NY Spectrum Sales Hartsdale	914-997-1166
NC W A Brown Durham	919-479-5200
OH Comtel Inst Cleveland	216-442-8080
OK E Graves Tulsa	918-584-0707
OR Topp Eng Sales Portland	503-244-7265
PA Comtel Instruments Co Pittsburgh	412-922-5720
TX AWC Inc Houston	804-794-0303
VA Cavalier Richmond	804-794-4033

DIGITECH INDUSTRIES INC	
66 GROVE ST RIDGEFIELD	
CT 06877 TWX 969-623	203-438-3731
J GAUR EMP 90 ENG 10 \$5,000-\$10,000K	
OH Gerhard & Assoc Columbus	614-488-9751
TX Mid Southwest Data Sys	
Richardson	214-669-0382
WA Del Com Sales Seattle	206-248-0090
FR Signatel, Ltd Willowdale ON	416-499-7744

DIGITRAN/COMPUTRON INC	
3100 NEW YORK DR PASADENA	
CA 91107 TWX 67-5485	818-791-5600
R HOBBS EMP 350 ENG 30 OVER \$10,000K	

DILLON & CO INC W C 2320	
AIRPORT BLVD BOX 1501	
SANTA ROSA CA 95402	
TXW 4979910	707-527-5555
D DILLON EMP 100 ENG 7	

DIMCO-GRAY CO 8200 S SUBURBAN RD	
CENTERVILLE OH 45459	
TXW 288 367	513-433-7600
CRAMER EMP 160 ENG 1 \$5,000-\$10,000K	
CA Corbett-Smith Co Montebello	213-728-4756
CT Fastech Westport	203-227-6585
GA Electro-Mech Sales Engr Atlanta	404-447-6478
IL Lincoln-Hodges & Assoc	
Des Plaines	312-297-3810
KS Robinson Assoc Shawnee Mission	913-262-1374
MI Barrieau Simmons Demski	
& Assoc Rochester	313-852-6100
NJ Feralite Metals Corp Cranbury	609-655-2930
CA K Kerr & Assoc Penfield	716-586-2920
OH C L Kerr & Assoc Cleve	216-261-1840
TX Chaparral Industries Arlington	817-265-2418
WA National Co Seattle	206-762-8832
FR Precision-Exp Supply Ltd	
Concord ON	416-738-1929

DISTRIBUTORS	
CA Kalt Corp Santa Monica	213-829-4787
CO Satter Distb Denver	303-399-7493
IL Brandess Bros Sales Chicago	312-588-8601
NY Uniphot Inc Woodside	212-779-5700
TN Alford Levit Inc Nashville	615-242-2641
TX Reeves Photo Sales Dallas	214-631-9730

DIODES INC 9957 CANOGA AVE	
CHATSWORTH CA 91311	
TXW 910-494-1223	818-882-4920
D LLOYD EMP 35 ENG 3 OVER \$10,000K	
AL Hughes Assoc Huntsville	205-533-9108
AZ Sanford Sales Assoc Phoenix	602-952-3570
CA J R Riley Assoc Huntington Bch	714-841-1411
CA Abbott Engineering Redwood City	415-968-2265
CO Todd & Fry Assoc Longmont	303-776-7331
CT Datamark Inc Guilford	203-453-0575
FL S E C Fernpark	305-834-6225
IL M J Peterson & Assoc Arlington	
Hts	312-577-8200
IN Advanced Component Sales Indpls	317-545-6441
MI J L Montgomery Assoc Southfield	313-358-2616
MN Proud Industries St Paul	612-646-9428
MO Web Electronics Florissant	314-921-5720
NM Astec Components Concord ON	416-669-4020
NY Andrews & Andrews Huntington	516-692-8686
NY Gentech Electronics Liverpool	315-451-3480
OH Crest Components Chagrin Falls	216-543-9808
PA Beil & Whitaker Harrisburg	717-564-6900
TX Design Marketing Dallas	214-680-9767
VA Jim Griffin Lynchburg	804-384-5236
WA Venture Electronics Bellevue	206-454-4594

DIONICS INC 65 RUSHMORE ST	
WESTBURY NY 11590	
TXW 510-222-0974	516-997-7474
M GEFNER EMP 50 ENG 15 \$2,500-\$5,000K	
AL Murcota Huntsville	205-539-8476
CA DeAngelo Rothman Co 7841	
Balboa Av San Diego	714-560-5707
CA Advantage Palo Alto	415-949-1260
NC Murcota Winston-Salem	919-722-9445

DIPLOMATIC DIV HARRY LEVINSON CO	
400 BOREN AVE N SEATTLE	
WA 98109 TWX 910-444-2154	206-382-1300
H LEVINSON EMP 7	

DISC INSTRUMENTS, A HONEYWELL SUB	
102 E BAKER ST COSTA MESA	
CA 92626 TWX 910-595-1987	714-979-5300
B REED EMP 215 ENG 15 OVER \$10,000K	
KS Midtec Assoc DeSoto	913-441-6565
MD Macrotech Assoc Glen Burnie	301-437-5588
MI Disc Instruments Troy	313-649-1340
MN J H Hanson Co Edina	612-893-9960
OR Controltek Sales Portland	503-641-0877
RI Disc Instruments E Providence	401-438-6000
SC Hilco Inc Mt Pleasant	803-884-0289
TX Measurement Sys & Sales Dallas	214-243-5781

DISCOM DISPLAY COMPONENTS INC	
334 LITTLETON RD WESTFORD	
MA 01886 TWX 951888	617-692-6000
P KORONIS EMP 120 ENG 7 \$2,500-\$5,000K	
CA King-Way Assoc Encino	818-788-4124
CA Magtronics San Jose	408-996-9757
GA Electro Comp Sales Roswell	404-992-2344
IL Probe Elctns Park Ridge	312-696-2828
IN Aero-Comp Sales Indpls	317-248-1700
MA Nortech Eng Sales Concord	617-259-0032
MN Knox Assoc St Paul	612-488-5402
NJ K & R Eng Sales Flinders	201-584-5235
UT Anderson Assoc Bountiful	801-292-8991

DISCON INDUSTRIES INC 61 SW 5 CT	
POMPANO BEACH FL 33060	305-782-7424
M CROCKETT EMP 20 ENG 3 \$250-\$500K	
PA Samuel A Jeffries Inc Narberth	215-664-8500

DISC TECH ONE INC 849 WARD DR	
SANTA BARBARA 93111	805-964-3535
C HAWKES EMP 40 ENG 6 \$5,000-\$10,000K	

DISPLAY DEVICES INC BOX 667	
ENCINITAS CA 92024	714-753-0113
R ROSS JR EMP 25	
CA Norwest Electronic Los Gatos	408-395-1190
CA Alpha Sales LA	213-215-0249
FL Ludlum Assoc Orlando	305-894-7761
MD Kraft Elctn Sales Towson	301-828-5838
MI Romarc Plymouth	313-455-0300
NJ G T Assoc Wayne	201-694-6040
NC Dula Assoc Inc Winston-Salem	919-723-4205
OH Crest Comp Sales Chagrin Falls	216-543-9808
TX Thorson Co Dallas	214-233-5744

DISPLAYS INC RD 4 BOX 6AAA	
LEWISTOWN PA 17044 TWX 842540	717-242-2541
K KENNEDY EMP 50 ENG 4 \$1,000-\$2,500K	
IL Esco Assoc Des Plaines	312-298-5310
MA Bay Colony Repts Framingham	617-260-0607
FR Intrade Inc Ottawa	613-727-1270

DISPLEX INC ALEXANDER PL	
GLEN COVE NY 11542	
TXW 46-6886	516-671-4400
EMP 15 ENG 3 \$500-\$1,000K	

DIT-MCO INTERNATIONAL 5612	
BRIGHTON TERR KANSAS CITY	
MO 64130 TWX 42-6149	816-444-9700
J FITZSIMMONS EMP 350 ENG 30 OVER \$10,000K	
CA D Wiseman San Francisco	1-800-821-3487
CA G Coulter Los Angeles	1-800-821-3487
FL J Fink Winter Springs	1-800-821-3487
MA J Coogan Boston	1-800-821-3487
MO J Corbett Kansas City	1-800-821-3487
NY C Jennings New York	1-800-821-3487
TX J Lee Arlington	1-800-821-3487
WA William Edmondson Seattle	206-633-3160

DITRIC OPTICS INC 312 MAIN	
ST BOX 455 HUDSON MA 01749	
TXW 710-347-7602	617-562-9373
M ALLEN EMP 70 ENG 4 \$2,500-\$5,000K	

DIVELBISS CORP 9776 MT GILEAD RD	
FREDERICKTOWN OH 43019	614-694-9015
T DIVELBISS EMP 30	
AZ Get Control Phoenix	602-231-0115
CA Calif Electro Sales Signal Hill	213-595-7427
FL Motion Technology Palm Bay	800-438-1380
GA Motion Technology Lilburn	800-438-1380
IL PMC Control Sales St Charles	312-377-6566
MA Motion Engineering Southborough	617-485-2144
MN Ten Tech Inc Shoreview	612-481-0274
NY Swedeco Inc Hawthorne	914-747-0101
NC Motion Technology Charlotte	800-438-1380
SC Motion Technology Greenville	800-438-1380
TX Automatic Systems Dallas	214-688-1810
VA Motion Technology Bedford	703-586-5133
WI Emco of Wisc Milwaukee	414-242-0800

DISTRIBUTORS	
AL Industrial Cont Specialists	
Birmingham	205-326-0588
CT Electro Mech Drives Southington	203-621-7335
Power & Pump Orlando	305-843-7400
CA Southern Belting Atlanta	404-875-1655
IL Automation Equipment Mt Prospect	312-398-7550
IN PHC Industries Ft Wayne	219-423-9461
ME Automated Equipment Bath	207-433-6503

MA New Eng Drives & Cont Seekonk.....207-443-6503
 MI G & D Assoc Farmington.....313-476-1266
 MI Marsh Equipment Highland Pk.....313-869-9200
 NJ L C Biglow Co Mountinside.....201-233-6500
 NC I/O Elec of Carolina Jamestown.....919-454-3175
 OH Eagle Equipment Westerville.....614-882-9200
 PA C A Briggs Glenside.....215-885-2244
 RI Machine Parts Providence.....401-274-4333
 SC Holder Electric Greenville.....803-271-7111

DIVERSIFIED ELECTRONICS INC
 119 N MORTON AVE EVANSVILLE
 IN 47711.....800-874-0619
 R KWIATKOWSKI EMP 50 ENG 4 \$2,500-\$5,000K
 CA Stuart Assoc Danville.....415-837-8197
 CO Empire Elec Sales Denver.....303-744-1776
 FL Diversified Elctns Leesburg.....904-787-7259
 GA Grady Duckett Sales Atlanta.....404-451-3529
 IL Antek/Lincoln Hodges Des Plaines.....312-297-0885
 IA Weisler & Assoc Bettendorf.....319-344-0566
 MA Adcor Inc Sharon.....617-784-8123
 MN ESECO Mpls.....612-571-9099
 MO Weisler & Assoc Ballwin.....314-394-4543
 NY Tylinski Assoc Great Neck.....516-466-9070
 NC Sentry Power Controls Charlotte.....704-535-1774
 OH A H Baier Co Cleveland.....216-661-6161
 OR Doran Sales Assoc Forest Grove.....503-357-3333
 TX Weisler & Assoc Houston.....713-467-1847
 UT Conely Engrg Co SLC.....801-972-5923
 WA Doran Sales Assoc Redmond.....206-885-1885
 WI Antek Mktg Corp Janesville.....608-754-4214

DIVERSIFIED TECHNOLOGY AN
 ERGON CO BOX 748 RIDGELAND
 MS 39157 TWX 810-966-2626.....601-856-4121
 B LONG EMP 85 ENG 20

DIVERSIFIED TRAFFIC PRODS
 INC MERCURY ELCTNS DIV
 339 E COTTAGE PL YORK
 PA 17403.....717-854-9557
 A HAYES EMP 34 ENG 3 \$2,500-\$5,000K

DIXON INDUSTRIES CORP METACOM
 AVE BRISTOL RI 02809
 TWX 92-7706.....401-253-2000
 L GRIMO EMP 625 ENG 24
 CA R Restelli Mission Viejo.....714-497-1333
 CA J White Sunnyvale.....408-733-0813
 CO E Poux Littleton.....303-979-5133
 CT J Hodska Stratford.....203-682-1000
 IL A Walkie Hawthorn Woods.....312-253-4455
 MA A Woods Chelmsford.....617-256-8390
 MI R Firth Dearborn.....313-271-5520
 MN Dennis Nau Buffalo.....612-571-8552
 MO J Zuius Florissant.....314-921-6242
 NJ D Adams Riverton.....609-786-9051
 NY F Betz Rochester.....716-586-0080
 OH G Simpson Sanford.....919-774-6619
 NC Harmath Brecksville.....216-526-8100
 TX R Kreml Houston.....713-893-3588
 WA J Erickson Issaquah.....206-392-4279

DISTRIBUTORS
 MA Tri-Star Worcester.....800-552-5511

DIXSON INC BOX 1449 GRAND
 JUNCTION CO 81502
 TWX 910-929-6991.....303-242-8863
 R CARLSON EMP 250 ENG 11 OVER \$10,000K
 AL SESCO Birmingham.....205-988-8304
 AZ Finn-Pat Co Phoenix.....602-954-0301
 AR SESCO Dallas TX.....214-231-9364
 CA Jacobson & Assoc Newark.....415-791-2336
 CA Van Gott & Assoc Arcadia.....818-445-9728
 CO Loritz Controls Inc Lakewood.....303-232-7803
 CT Pond Technical Sales Hamden.....203-281-0005
 FL SESCO St Petersburg.....813-576-6991
 GA SESCO Atlanta.....404-458-6423
 IL JUS Mktg Svcs Inc Bartlett.....312-830-1670
 IN OEM Inc Chicago IL.....312-980-9490
 KS Control Systems Design
 Manchester.....314-227-4212
 KY Marlow Assoc Dayton OH.....415-278-4147
 LA SESCO Baton Rouge.....504-928-4951
 ME Pond Technical Sales Wuxton.....207-637-2200
 MD Imagitron Sales Co Pikesville.....301-521-2020
 MA W A Webb Sales Swansea.....617-672-0788
 MN Trask Eng Mpls.....612-537-2434
 NH Pond TS Boston MA.....617-890-5535
 NJ FLW Northeast Newark.....201-548-4343
 NY R P Kennedy Co Rochester.....716-271-6322
 NC SESCO Cary.....919-467-7482
 OH Marlow Assoc Cleveland.....216-991-6500
 OK SESCO Tulsa.....918-622-3868
 PA FLW of PA Inc King of Prussia.....215-337-4343
 SC SESCO Greenville.....803-297-8307
 TN SESCO Knoxville.....615-588-5455
 TX United Components Rowlett.....214-475-0051
 VA Dynamation Richmond.....804-794-7667
 WA Instrument Reps Assoc Seattle.....206-762-0707

DLL COM CON INC 140 LANGMUIR
 LAB BROWN RD ITHACA NY 14850
 E OLIVER EMP 4 ENG 1 \$1,000-\$2,500K.....607-257-0333

D & M BOCK INC BOX 562
 LANCASTER NH 03584.....603-788-3577
 P BOCK EMP 15 ENG 1

DMC SYSTEMS 2320 OWEN ST
 SANTA CLARA CA 95054.....408-727-4444
 L MORWAY

DNH INDUSTRIES INC 2807
 OREGON CT DL TORRANCE
 CA 90503.....213-328-0750
 W FELD/KIRCHER EMP 23 ENG 4 \$1,000-\$2,500K

DISTRIBUTORS
 CA Hamilton Electro Sales Gardena.....213-217-6742
 CA A-Z Electronics Anaheim.....714-634-3620
 CA Control Design Supply Buena Park.....213-802-1371
 CA Electronic Supply Riverside.....213-626-6795
 CA Kierulff Electronics Los Angeles.....213-725-0325
 CA Marshall Industries Canoga Park.....818-999-5001
 CA Prime Electro Manhattan Beach.....213-379-3642
 CA Schwebel Electronics Gardena.....213-327-8409
 CA Time Electronics Torrance.....213-320-0880

DOERR ELECTRIC CORP BOX 67
 CEDARBURG WI 53012 TWX 2-6744.....414-377-0500
 D GALL EMP 2000 ENG 15 OVER \$10,000K
 AL East/South Sales Co Birmingham.....205-323-2223
 CA Powermatic Assoc Oakland.....415-635-6825
 CA Doerr Elec Corp Westlake Vlg.....805-496-7212
 CO P Fister & Assoc Morrison.....303-697-6165
 IL Doerr Elec Corp Techny.....312-480-1580
 IN Gregory Sales Co Granger.....219-272-9626
 KS E L Martin Shawnee Mission.....613-648-4746
 MA Brundage Assoc Chatham.....617-945-9459
 MI Cascade Sales Grand Rapids.....616-956-9111
 MN Doerr Elec Corp St Paul.....612-553-0270
 MO Terry & Hodges Inc St Louis.....314-965-0744
 NJ Brundage Assoc Paramus.....201-967-7024
 NY Brundage Assoc Clarence.....716-741-2255
 NY Brundage Assoc East Aurora.....716-652-3726
 NC Motion Technology Charlotte.....704-525-9855
 OH Doerr Elec Corp Westlake.....216-871-3812
 OK Components Inc Tulsa.....918-583-9149
 PA Doerr Elec Corp Pittsburgh.....412-885-4060
 TX Lynn Elliott Co Missouri City.....713-499-1571
 WA Temco Northwest Box 847 Bothell.....206-485-1211

DOHRMANN DIV XERTEC CORP
 3240 SCOTT BLVD SANTA CLARA
 CA 95052 TWX 346-395.....408-727-6000
 G CRANE EMP 90 ENG 8

DOLAN JENNER INDUSTRIES INC
 BOX 1020 WOBURN MA 01801
 TWX 348161.....617-935-7444
 S FUTRAN EMP 100 ENG 12 OVER \$10,000K
 CA Duncan Eng Sales Co Hollywood.....213-462-5880
 CA C/G Assoc Mt View.....415-968-6062
 CO Gribble Sales Eng Denver.....303-985-4702
 IL Loganowski Assoc Buffalo Grove.....312-520-0130
 MA R J Wilson Assoc Hingham.....617-749-7575
 NJ Static Controls Corp Walled Lake.....313-363-4500
 MO Gribble Sales Eng Co
 Independence.....816-796-4333
 NY Kapital Inst Sales Frankfurt.....315-894-4245
 NY Jarms Electr Industries Melville.....516-752-0404
 NC Ron Ingle Assoc Greensboro.....919-273-4042
 OH Rogers Sales Novelty.....216-338-8500
 PA Speck Ind Controls Upper Darby.....215-449-6122
 TN Stephenson Controls & Sys
 Knoxville.....615-588-7473
 TX Gribble Sales Eng Co Lewisville.....214-221-5109
 WI TFL Assoc Cedarburg.....414-377-7030

DISTRIBUTORS
 AZ D Schuff & Co Phoenix.....602-997-0206
 CA Master Distributors LA.....216-829-4656
 CA Prime Controls Irvine.....714-754-6300
 CT Earth Comps & Controls Derby.....203-734-1215
 FL A A Electric Lakeland.....813-682-6181
 GA A A Electric Norcross.....404-449-8670
 IN Process Automation Devices
 Indpls.....317-849-3682
 KY Process Automation Devices
 Louisville.....502-491-9505
 MD Automation Ind Controls
 Baltimore.....301-944-8400
 MA Control Pak Eng Corp Weymouth.....617-335-5500
 MA EMD Norwell.....617-826-9714
 MA Tectrol Assoc W Springfield.....413-733-3695
 MI Static Controls Walled Lake.....313-363-4500
 MI Control Devices Clio.....313-686-2410
 MN KDI Inc St Paul.....612-645-7717
 MO Ingenuity United Independence.....816-796-6655
 NJ Registration Elec Supply Linden.....201-925-1899
 NY A E D Dist Sodas.....315-483-6561
 NC BGV Inc Charlotte.....704-588-3047
 OH B L Michaelson Co Xenia.....513-372-5496
 OH Process Automation Devices Cinc.....513-752-3353
 OH Lake Industrial Olmsted.....216-734-5466
 PA H A Deever & Co Monroeville.....412-372-4000
 TX Coastal Plains Dallas.....214-631-1492
 TX Coastal Plains Houston.....713-675-7524
 VA Otte Controls Richmond.....804-794-3400
 WI AA Electric Cedarburg.....414-377-7500

DOLCH LOGIC INSTRUMENTS INC
 2029 O'TOOLE AVE SAN JOSE
 CA 95131 TWX 910-338-2023.....408-945-1881
 T LARSON EMP 30 ENG 4

DOLINKO & WILKINS INC 1907
 SUMMIT AVE UNION CITY
 NJ 07087.....201-867-6630
 L DOLINKO EMP 27 ENG 2 \$500-\$1,000K

DOLPH CO JOHN C NEW RD
 MONMOUTH JUNCTION NJ 08852.....201-329-2333
 J ROOZE

DISTRIBUTORS
 AL Brownell Electro Inc Mobile.....205-279-5405
 AZ Electrical Specialty Co Phoenix.....602-275-5739
 AR C H Clowers Supply Co Pine Bluff.....501-535-8807
 CA Electrical Specialty Co
 S San Francisco.....415-589-9611
 CA Brownell Electro Inc LA.....213-532-1150
 CO Ward Elect Supply Co Denver.....303-333-3541
 CT E H Canis & Sons Wallingford.....203-265-1589
 FL Electrical Insulation Suppliers
 Orlando.....305-855-7100

GA Electrical Insul Suppliers
 Atlanta.....404-335-1631
 IL Prehler Inc Chicago.....312-384-6100
 IN Complete Reading Electric Indpls.....317-872-377
 KY Electrical Insulation Suppliers
 Louisville.....502-636-0300
 LA Complete Reading Electric
 Co Harahan.....504-733-9400
 MD Brownell Electro Inc Linthicum
 Hts.....301-636-3636
 MA Complete Reading Elec Woburn.....617-935-3131
 MI Complete Reading Electric Warren.....313-755-6020
 MN H A Holden Mpls.....612-333-5333
 MO Complete Reading Electric KC.....816-471-5900
 NJ E H Canis & Sons Metchen.....201-549-5191
 NY Brownell Electro NYC.....212-924-6000
 NY Schmitz Bros Rochester.....716-546-6000
 NC Electrical Insulation Suppliers
 Charlotte.....704-392-7300
 OH Electric Parts & Service
 Bedford Hts.....216-475-8800
 OK John H Cole Co Okla City.....405-235-1700
 OR OTS Wire & Insulation Portland.....503-232-7000
 PA PLC Yeardon.....215-622-2222
 TN Brownell Electro Inc Memphis.....901-795-8400
 TX Complete Reading Electric
 Houston.....713-691-0000
 UT Electrical Specialty Co SLC.....801-972-4100
 VA Electrical Insulation Suppliers
 Bluefield.....703-322-5400
 WA Electrical Specialty Co Tukwila.....206-241-1000
 WV Brownell Electro Inc Princeton.....304-487-1400
 WI Complete Reading Electric Mequon.....414-241-3800

DONOVAN INDUSTRIES 130
 SARATOGA RD SCOTIA NY 12302.....518-346-3400
 T DONOVAN EMP 25 ENG 4

DONRAY CO 500 SOM CENTER RD
 CLEVELAND OH 44143
 TWX 810-427-2977.....216-449-6400
 J STONE EMP 100 ENG 15 \$2,500-\$5,000K

DORAN MFG CO 1033 BADER ST
 CINCINNATI OH 45225.....513-681-5400
 R DEMAR EMP 40 ENG 3 \$1,000-\$2,500K

DORCO ELECTRONICS INC 15533
 VERMONT AVE PARAMOUNT
 CA 90723.....213-636-5500
 R PACK EMP 22 ENG 3 \$500-\$1,000K

DORIC SCIENTIFIC DIV EMERSON
 ELEC CO 3883 RUFFIN RD
 SAN DIEGO CA 92123 TWX 249031.....619-565-4400
 J MCGRATH EMP 150 ENG 15
 AL SESCO Inc Birmingham.....205-988-8800
 AK Artic Technology Anchorage.....907-277-6740
 CA HSK Inc Van Nuys.....213-873-4700
 CA Manco Santa Clara.....408-496-6666
 CO Radco Elctns Littleton.....303-794-4422
 FL SESCO Inc St Petersburg.....813-576-6900
 GA SESCO Inc Atlanta.....404-458-6400
 IL Carvel Engrg & Sales Hoffman
 Estates.....312-885-8800
 IN Tech Sales & Mktg Indpls.....317-849-6600
 LA SESCO Inc Baton Rouge.....504-928-4900
 MD Powell-Pendergraph Gaithersburg.....301-921-4200
 MA Pat Jenks & Assoc Woburn.....617-938-0400
 MI Anderson Elctns Farmington.....313-553-7600
 MN Carvel Engrg & Sales Edina.....612-835-7900
 MO Carlton Co KC.....816-365-5300
 NJ TRI Saddlebrook.....201-791-5200
 NM SESCO Entprs Albuquerque.....505-292-2700
 NY NACO Elect Corp N Syracuse.....315-699-2600
 NC SESCO Inc Charlotte.....704-535-4900
 OH Instrumentation Systems Dayton.....513-294-2800
 OK SESCO Inc Tulsa.....918-622-3800
 OR Fry Controls Portland.....503-266-2600
 PA Powell-Pendergraph Willow Grove.....215-657-0300
 TX SESCO Inc Austin.....512-892-2400
 VA Powell Pendergraph Richmond.....804-270-1700
 WI Carvel Engrg & Sales Sheboygan.....414-457-8800

DO-RITE MFG CO 379 MARKET ST
 ELMWOOD PARK NJ 07407.....201-796-1900
 R LOCKEY EMP 19 ENG 2 \$500-\$1,000K

DORMAN BOGDONOFF CORP WILLOW
 POND BOX 2012 ANDOVER
 MA 01810-0912 TWX 710-347-0333.....617-470-0000
 G BROWN EMP 175 ENG 5 \$5,000-\$10,000K
 CA Baytech Sales Santa Clara.....408-727-9400
 CA Luscombe Eng Pasadena.....213-684-2000
 CO R G Enterprise Boulder.....303-447-9200
 CT Gerald Rosen Co Stratford.....203-375-5400
 FL QXI Inc St Petersburg.....813-821-2222
 IL Interp Mt Prospect.....312-577-8800
 IN Fred A Dorsey & Assoc Indpls.....317-842-0000
 MD C/Etech Elctns Potomac.....301-983-2100
 MA A/D Systems Sales Lexington.....617-861-6300
 MI SAI Mktg Brighton.....313-227-1700
 NY Net Sales Fairport.....716-467-4500
 NY Robert Diamond Inc Bayside.....718-423-7300
 NC Over & Over Inc Charlotte.....704-331-9000
 OH Stegman Blaine Mktg Cincinnati.....513-729-1900
 PA Omega Elect Sales Huntington
 Valley.....215-947-4100
 TX Interactive Component Sales
 Garland.....214-276-7100

DORMEYER INDUSTRIES 3418
 N MILWAUKEE AVE CHICAGO
 IL 60641 TWX 910-221-5929.....312-283-4000
 EMP 400 ENG 15 OVER \$10,000K
 FL A A Electric Lakeland.....813-665-6900

DISTRIBUTORS
 CA Master Distributors Santa Monica.....213-452-1200
 PA Pyttronic Indus Montgomeryville.....215-242-6700

WI Electronic Expeditors Milwaukee..... 414-228-8100

DORNE & MARGOLIN INC 2950
VETERANS MEM HWY BOHEMIA
NY 11716 TWX 510-228-6502..... 516-585-4000
R PRESTON EMP 275 ENG 35 OVER \$10,000K

DOTRONIX INC 160 FIRST ST SE
NEW BRIGHTON MN 55112
TWX 910-563-3541..... 612-633-1742
S SIMS EMP 80 ENG 5 \$5,000-\$10,000K

CA Dotronix Inc Gilroy..... 408-848-2499
CA Gerber Sales Corp Newton..... 617-969-2620
NJ Marlin Data Corp Fords..... 201-738-7200
TX P J Scanlon Co Dallas..... 214-231-4861

DOUGLAS ELECTRONICS 718
MARINA BLVD SAN LEANDRO
CA 94577..... 415-483-8770
S SANCHEZ EMP 12 ENG 1

DOUGLAS RANDALL DIV 6 PAWCATUCK
AVE PAWCATUCK CT 02891
TWX 6814060..... 203-599-2075
EMP 120

CA Galaxie Sales Intl Brea..... 213-690-3384
CA Powermatic Assoc Oakland..... 415-635-6825
CO Trembly Assoc Wheat Ridge..... 303-421-8900
FL Ellis & Assoc Maitland..... 305-645-1101
GA Leigh Sales Lilburn..... 404-962-5643
IL Ropak & Vogt Chicago..... 312-631-0070
MA JMA Inc Norwood..... 617-762-5333
MA Fred H Gehrike & Assoc Southfield..... 313-559-5363
MO Gaffney Sales Co Osseo..... 612-475-5484
MN Delltron Co St Louis..... 314-869-4779
NV Trembly Assoc Las Vegas..... 702-739-9770
NJ Andrews & Andrews Morristown..... 201-569-8800
NY Trembly Assoc Albuq..... 505-266-8616
NY Andrews & Andrews Glen Head..... 516-692-8686
NY C W Floring & Assoc Poughkeepsie..... 914-471-2973
NY J G Welch Assoc Rochester..... 716-244-1100
NC Leigh Sales Raleigh..... 919-872-1484
NC Geotronics Mktg Assoc Cleveland..... 216-526-2535
PA Elcom Glenside..... 215-885-1715
TX Paramount Controls Dallas..... 214-341-4561
UT Trembly Assoc SLC..... 801-486-5292
FR Solid State Engineering
Montreal PQ..... 514-481-3313

DISTRIBUTORS

AZ Trembly Assoc Tempe..... 602-967-2058
CA Mil Comm Dist Chatsworth..... 818-998-3111
CA Steven Engineering San Francisco..... 415-588-8200
MA Glynn Electronics Middleboro..... 617-947-4262
OH Alpha Distributor Cleveland..... 216-526-3716
TX Butler & Land Houston..... 713-464-4662

DOW CHEMICAL CO DOW CENTER
BLDG 2020 MIDLAND MI 48640..... 517-636-1000
EMP 53000 OVER \$10,000K

CA Dow Chemical Co Walnut Creek..... 415-944-2000
CA Dow Chemical Co Atlanta..... 404-394-4141
CA Dow Chemical Co Rolling Meadows..... 312-228-2700
IN Dow Chemical Co Indpls..... 317-873-7000
TX Dow Chem Co Shawnee Mission..... 913-341-2500
LA Dow Chemical Co Baton Rouge..... 504-293-2222
VA Dow Chemical Co Wellesley..... 617-237-2070
MI Dow Chemical Co Southfield..... 313-358-1300
MN Dow Chemical Co Minnetonka..... 612-938-4300
MO Dow Chemical Co St Louis..... 314-726-5000
NJ Dow Chemical Co Saddle Brook..... 201-845-5000
NY Dow Chemical Co Fairport..... 716-425-1200
NC Dow Chemical Co Charlotte..... 704-525-9030
OH Dow Chemical Co Strongsville..... 216-826-6000
PA Dow Chemical Co Pittsburgh..... 412-281-3030
TX Dow Chem Co Memphis..... 901-767-5000
TX Dow Chemical Co Dallas..... 214-387-2211
VA Dow Chemical Co Richmond..... 804-288-1601
VA Dow Chemical Co Bellevue..... 206-455-7250

DOW CORNING CORP BOX 0994
MIDLAND MI 48686-0994
TWX 227450..... 517-496-4000
EMP 6000 OVER \$10,000K

CA Dow Corning Corp Irvine..... 714-556-7200
CA Dow Corning Corp Fremont..... 415-490-9302
GA Dow Corning Corp Atlanta..... 404-256-2626
IL Dow Corning Corp Schiller Park..... 312-671-3100
MA Dow Corning Corp Newton..... 617-965-1010
MI Dow Corning Corp Farmington Hills..... 313-553-0400
NJ Dow Corning Corp Parsippany..... 201-267-0440
NC Dow Corning Corp Greensboro..... 919-275-9708
OH Dow Corning Corp Beachwood..... 216-464-2330
TX Dow Corning Corp Dallas..... 214-661-0702

DISTRIBUTORS

AL Brownell Electro Mobile..... 205-479-5405
AL Brownell Electro Birmingham..... 205-322-3374
AZ KR Anderson Co Tempe..... 602-838-8712
CA K R Anderson Co Santa Anna..... 714-549-1343
CA K R Anderson Co Sunnyvale..... 800-538-8712
CO Waco Electronics Commerce City..... 303-289-4743
CT Brownell Electro Hartford..... 203-278-9000
FL Brownell Electro Orlando..... 305-843-6770
FL Brownell Electro Miami..... 305-892-2636
GA Brownell Electro Atlanta..... 404-762-5181
IL Frehler Inc Chicago..... 800-621-4177
LA Crown Dist Inc Cedar Rapids..... 319-377-8275
VA Brownell Electro Lithium Hts..... 800-492-1734
VA Brownell Electro Woburn..... 617-935-7820
VN Frehler Inc Bloomington..... 800-621-4177
VO Crown Distributing Inc
Independence..... 816-373-6600
VO Crown Dist Inc Bridgeton..... 314-291-5545
VA Robt McKeown Co Livingston..... 800-631-1125
NM Waco Electronics Albuq..... 505-255-1638
NY Brownell Electro New York..... 212-691-7900
NY Wolcott-Park Inc Rochester..... 716-342-3120
NY Aero Hardware & Parts Co Rye..... 914-967-8550

NC Brownell Electro Charlotte..... 704-597-1270
NC Brownell Electro Raleigh..... 919-876-6524
OH Prehler Inc Middleburg Hts..... 216-243-5510
PA Brownell Electro Treviso..... 215-364-1400
TN Brownell Electro Nashville..... 615-885-1302
TN Brownell Electro Memphis..... 901-795-8483
TX Specialized Products Co Houston..... 713-995-0595
TX Specialized Products Dallas..... 214-257-3535
UT Waco Electronics SLC..... 800-532-7701
VA Brownell Electro Norfolk..... 800-855-2400
WV Brownell Electro Princeton..... 304-487-1477
WI Ellsworth Corp Milwaukee..... 414-354-3800

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1110 MARK AVE CARPENTERIA
CA 93013-2918 TWX 910-380-4327..... 805-684-0427

DOWTY ELECTRONICS CO BOX 250
BRANDON VT 05733..... 802-247-6811
R HOMUTH EMP 150 ENG 4 OVER \$10,000K

CT Barton Assoc Glastonbury..... 203-633-9417
MA Barton Assoc Salem..... 617-745-4310
PA Arnold Assoc Jenkintown..... 215-742-0600

DOWTY ELECTRONICS CO THERMOCONTROL
DIV PROSPECT ST BRANDON
VT 05733 TWX 710-987-8352..... 802-247-6811
C SMITH EMP 200 ENG 25 \$5,000-\$10,000K

CA Gado Inst Sales Mtn View..... 415-961-2222
CO Haltech Sales Boulder..... 303-499-7418
FL R S Cushing Longboat Key..... 813-383-1770
IA Technical Electronics Cedar Rapids..... 319-366-5443
OH Rogers Sales Novelty..... 216-338-8500
PA Gil-Tronics Chester Springs..... 215-933-8525

DISTRIBUTORS

FL Brownell Electro Orlando..... 305-843-6770
GA Brownell Electro Hapeville..... 404-762-5181
MA Brownell Electro Woburn..... 617-864-7500
NJ Brownell Electro S Plainfield..... 201-753-4600
NY Brownell Electro New York..... 212-924-6000
NC Brownell Electro Charlotte..... 704-597-1270
OK Intek Corp Tulsa..... 918-622-8570
TX Intek Corp Dallas..... 214-243-8370

DOWTY RFL INDUSTRIES INC COMMUN
POWERSVILLE RD BOONTON
NJ 07005 TWX 710-987-8352..... 201-334-3100
EMP 275 ENG 30 OVER \$10,000K

NH Dowty RFL Keene..... 603-352-6710
TX Dowty RFL Houston..... 713-464-1178

DOWTY RFL INDUS INSTR DIV
POWERSVILLE RD BOONTON
NJ 07005-0239 TWX 710-987-8352..... 201-334-3100
R AMATO EMP 275 ENG 30 OVER \$10,000K

AL Scientific Devices Huntsville..... 205-536-1969
AZ Jayson Co Phoenix..... 602-867-1964
CA Eletek Systems Laguna Hills..... 714-830-4856
CA IFM-North Mt View..... 415-961-2828
CO Wes Tenn Sales Englewood..... 303-798-0945
FL Scientific Devices SE Orlando..... 305-841-8180
IL Marsland Assoc Des Plaines..... 312-298-2620
IN Marsland Assoc Indpls..... 317-293-5437
IA Marsland Assoc Cedar Rapids..... 319-396-8030
KS Marsland Assoc St Louis..... 314-991-1399
MD W A Brown Equip-Comp Lanham..... 301-577-6105
MI Applied Measurements Inc Acton..... 617-263-2766
MI Carter McCormick & Peirce
Farmington..... 313-477-7700
MN Marsland Assoc Mpls..... 612-545-4481
MO Marsland Assoc St Louis..... 314-991-1399
NJ C B Assoc Hillsdale..... 201-664-6230
NY Tee-Rep Binghamton..... 607-722-6952
NC Scientific Devices Winston Salem..... 919-765-5776
OH Carter McCormick & Peirce
Inc Fairview Pk..... 216-779-5100
PA Carter McCormick & Peirce
Monroeville..... 412-372-4415
TX Spectra Sales Richardson..... 214-234-3600

DRAKE INDUSTRIES INC DRAWER 9110
AUSTIN TX 78766..... 512-251-2231
J DRAKE EMP 10 ENG 2 \$250-\$500K

DRANETZ TECHNOLOGIES INC
1000 NEW DURHAM RD BOX 4019
EDISON NJ 08818-4019
TWX 710-997-9553..... 201-287-3680
A ORLACCHIA EMP 250 ENG 25 OVER \$10,000K

DREFFS SWITCH INC 3782
HAWTHORN CT WAUKEGAN IL 60087
TWX 703784..... 800-323-9605
E MAGIERA EMP 62 ENG 3 \$5,000-\$10,000K

DISTRIBUTORS

AZ Cypress Elctns Phoenix..... 602-256-9642
CA Cypress Elctns San Jose..... 408-945-8400
CA Cypress Elctns Torrance..... 213-533-6005
CO Cypress Elctns Wheat Ridge..... 303-431-2622
IL Hawk Elctns Wheeling..... 312-459-4030
OR Cypress Elctns Portland..... 503-241-0291
TX Cypress Elctns Dallas..... 214-869-1435
TX Sunbelt Elctns McKinney..... 214-542-1432
WA Cypress Elctns Seattle..... 206-622-6833

DREISILKER ELECTRIC MOTORS INC
352 ROOSEVELT RD GLEN ELLYN
IL 60137 TWX 72-1510..... 312-469-7510
J PESTKA EMP 110 \$5,000-\$10,000K

DREXELBROOK ENGINEERING CO
205 KEITH VALLEY RD HORSHAM
PA 19044..... 215-674-1234
D NTRASS

AZ Southwest Controls Tucson..... 602-299-8981
AR J R Williams Engr Arkadelphia..... 501-246-9252
CA RPS Indus Santa Fe Springs..... 213-921-7200

CA Technical Sales Devel Co
San Francisco..... 415-346-1655

CO Process Control Dynamics
Lakewood..... 303-237-0443

FL Lewis & Assoc Tampa..... 813-988-2104

GA Elam Engrg Sales Acworth..... 404-974-3400

IL Williams Control Equip
Oakbrook Terr..... 312-932-7101

IN Temco Cincinnati..... 513-489-9444

KS A W Schultz Co Shawnee Mission..... 913-362-0265

KY Primary Devices Louisville..... 502-491-2342

LA Flowmaster Inc Baton Rouge..... 504-293-7315

MA Six States Engrg Inc Wellesley..... 617-235-5537

MI Systems Specialties Royal Oak..... 313-280-0910

MN Waltam Sales Co Mpls..... 612-781-2778

MO Industrial Msmt Co Chesterfield..... 314-532-6910

NJ Control Equipment Marlton..... 609-596-2073

NJ Control Sales Wayne..... 201-785-0131

NY Ritec Entprs Rochester..... 716-271-3170

NC Macguire & Crawford Co Charlotte..... 704-366-3454

OH Gilson Eng Sales Solon..... 216-248-8805

OK M & D Controls Tulsa..... 918-664-7511

OR Brett-Ross Inc Portland..... 503-256-9727

PA Gilson Engrg Sales Pittsburgh..... 412-931-6114

TN Primary Devices Bartlett..... 901-372-7697

TX Process Instruments Houston..... 713-893-3310

UT Tech Sales of Utah SLC..... 801-532-2781

VT Six States Engrg Inc Springfield..... 802-885-5253

VA United Control Co Richmond..... 804-285-9927

WA Brett-Ross Inc Kirkland..... 206-821-4903

WI Williams Control Equip West Bend..... 414-735-0854

FR Pyrometer Assoc Santurce PR..... 809-722-2196

DUCEY CHEMICAL INC BOX 776
PRINCETON JUNCTION NJ 08550..... 609-799-3191
C DUCHEY EMP 5 ENG 2 \$1,000-\$2,500K

DISTRIBUTORS

CA Advance Electrical Sales Belmont..... 415-592-4550
CA Advance Electrical Sales Anaheim..... 714-870-0300
IL Gemini Sales Supply Chicago..... 312-486-0010

DUMONT INSTRUMENTATION INC
75 MALL DR COMMACK NY 11725
TWX 510-226-3739..... 516-864-8500
R FARANDA \$5,000-\$10,000K

DUMONT OSCILLOSCOPE E & R
ELCTNS INC 40 FAIRFIELD PL
WEST CALDWELL NJ 07006..... 201-575-8666
D PETRASEK EMP 50 ENG 2 \$500-\$1,000K

DUNCAN ELECTRONICS INC
2865 FAIRVIEW RD COSTA MESA
CA 92626 TWX 910 595-1128..... 714-545-8261
EMP 150 ENG 15 \$5,000-\$10,000K

AZ Southwest Engineering Co Tempe..... 602-941-2828
CA Caltron Components Mt View..... 415-964-3244
CA Comar Co Costa Mesa..... 714-250-0140
CO Elcom Denver..... 303-337-2300
CT A & M Elctn Guilford..... 203-453-1612

FL Electro Comp Assoc Deerfield Beach..... 305-429-0802

IL KMA Sales Co Rolling Meadows..... 312-398-5300

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KS Florence & Meyer Shawnee Mission..... 913-722-5210

MA A & M Elctn Needham..... 617-444-8170

MI Elcom Michigan Sales Farmington Hills..... 313-855-3240

MN John J Exon Co St Paul..... 612-636-5533

NY Sencor Inc Copiague..... 516-842-7676

NY Advanced Components Corp
N Syracuse..... 315-699-2671

NC L & D Inc Greensboro..... 919-292-3201

OH Dolfuss-Root Strongsville..... 216-238-0300

PA Jadelectronic Assoc
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TX Kemp Engrg Co Addison..... 214-931-7100

UT Elcom S L C..... 801-485-7415

WA Electronic Mktg Group Redmond..... 206-882-0962

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CA Richey Western Elctns Garden Grove..... 714-895-0060

CA Yale Radio Electric Co..... 213-465-3186

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IL GBL Elect Elk Grove Vlg..... 312-593-3220

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NY Kin-Tronics New York..... 914-968-7736

NY Broadline Electronics Dist..... 516-231-4100

NY Ancar Elect Sply Elmsford..... 914-592-7100

NC Kirkman Elect Winston-Salem..... 919-722-9131

OH Akron Elect Akron..... 216-762-8818

OH URI Electronics..... 513-761-4030

OR Radar Elec Portland..... 503-232-3404

PA Rem Elect Erie..... 814-453-5626

PA Barro Radio..... 412-664-9394

TX Southwest Elctns Stafford..... 713-240-4000

TX Bell Components..... 817-461-5303

UT Standard Supply Company..... 801-486-3371

WA Radar Elec Seattle..... 206-282-2511

WA Pacific Electronics..... 206-575-1050

WI GW Elect Hartland..... 414-367-6003

WI Taylor Electric Mequon..... 414-241-4321

FR Wakcid Radio TV Labs Ottawa ON..... 613-728-1821

FR RAE Industrial Elctns Burnaby BC..... 604-291-8866

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M KELLY EMP 100 ENG 18 \$2,500-\$5,000K

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MN DuPont Connector Mpls 612-835-4820
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AZ Kierulff Elect Phoenix 602-243-4101
CA Force Elctns Inglewood 213-776-1324
CA Weatherford Glendale 213-849-3451
CA LoDan Elect Belmont 415-592-4600
CA Weatherford Anaheim 714-634-9600
CA Weatherford Sunnyvale 408-738-8694
CA Kierulff Elect LA 213-725-0325
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CA Bell Industries Sunnyvale 408-734-8570
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CO Weatherford Denver 303-428-6900
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CT Harvey Norwalk 203-853-1515
CT Kierulff Wallingford 203-265-1115
CT Sager Elect Supply Wallingford 203-265-4600
FL Hammond Elect Orlando 305-849-6060
FL Hammond Elect Ft Lauderdale 305-973-7103
FL Kierulff Elect St Petersburg 813-576-1966
FL Lodan Largo 813-586-2851
GA Kierulff Norcross 404-447-5252
IL LoDan Arlington Hts 312-398-5311
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NY Harvey Fairport 716-381-7070
NY Harvey Woodbury 516-921-8700
NC Hammond Elect Greensboro 919-275-6391
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OH Cam/RPC Cleveland 513-435-8660
OH Kierulff Cleveland 216-587-6558
OK Kierulff Tulsa 918-252-7537
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PA Almo Electronics Corp Phila 215-698-4000
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PA Cam/RPC Lancaster 717-392-8141
SC Hammond Elect Greenville 803-233-4121
TX Weatherford Dallas 214-931-7333
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TX Kierulff Dallas 214-343-2400
TX Solid State Dallas 214-438-5700
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WA Weatherford Seattle 206-575-1340
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DUPONT DE NEMOURS & CO
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WILMINGTON DE 19898
TWX 835420 302-774-2421
EMP 100000 OVER \$10,000K

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VA Inflico Degremont Inc Richmond 804-281-7600
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IN 46515 TWX 25-8482 219-264-1116
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AZ O'Donnell Assoc SW Phoenix 602-944-9542
CA Pass Assoc Sunnyvale 408-735-9042
CA O'Donnell Assoc Torrance 213-539-9664
CO Harthun Assoc Englewood 303-792-5050
FL Galleher Co Clearwater 813-461-7706
GA Electrical Control Prod Atlanta 404-455-1216
IN Power Components Mishawaka 291-256-6630
KS R Greene Co Overland Pk 913-492-6886
LA Lynn Elliott Co Baton Rouge 504-291-3306
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MD Power Modules Glyndon 301-833-6430
MA Hingham Bay Hingham 617-740-1900
MI Millmore Sales Novi 313-349-0260
MN Volco Co Minneapolis 612-933-6631
MS Hughes Assoc Corinth 601-287-2915
MO R Greene Co St Louis 314-994-0222
NE Volco Co Omaha 402-330-6700
NH Hingham Bay Nashua 603-880-8199
NM O'Donnell Assoc SW Albuquerque 505-883-1030
NY Dony Tech Sales Wantagh 516-826-5550
NY Niagara Elec Sales Rochester 716-271-1223
NC J W L Assoc Pineville 704-541-5750
OH Orr Assoc Parma 216-885-1324
OK Lynn Elliott Co Tulsa 918-252-5795
OR Temco Northwest Hillsboro 503-649-8375
PA Power Modules Narberth 215-839-1331
TN Austin Brown Assoc Brentwood 615-373-2068
TX Lynn Elliott Co Houston 713-499-1571
TX Lynn Elliott Co Dallas 214-239-8533
UT Western Controls SLC 801-292-5900

WA Temco Northwest Bothell 206-821-5432
WI Power Components Waukesha 414-549-5020
FR Davis Controls Toronto ON 416-233-3211

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COMMERCIAL AVE PALISADES PARK
NJ 07650 TWX 710-991-9632 201-947-8313
R GIACOBONE EMP 60 ENG 4 \$2,500-\$5,000K

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MA J Flynn Framingham Ctr 617-877-0245
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PA S J Shelton Phila 215-248-0131

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A KULKE

CA Powermatic Oakland 414-835-6825
CA Durant Instr Walnut 714-594-6839
CO Hammond Assoc Denver 303-871-0202
CT Durant Instr New Canaan 203-972-1868
FL Hutto/Hawkins/Peregoy Maitland 305-831-2474
GA Electro-Services Atlanta 404-321-3040
IL Durant Instr Chicago 312-279-8220
KS Durant Instr Shawnee Mission 913-262-2199
MA Durant Instr Billerica 617-667-8517
MI Durant Instr Southfield 313-354-8780
MN Durant Instr Woodbury 612-738-0668
MO Durant Instr St Louis 314-567-0893
NJ Durant Instr Watertown 414-261-4070
NC Durant Instr Charlotte 704-525-3149
OH Durant Instr Cincinnati 513-531-5073
OH Durant Instr Cleveland 216-464-8787
PA Durant Instr Plymouth Mtg 215-825-5450
TN Hicks Sales Agency Inc Memphis 901-386-5725
TX Durant Instr Dallas 214-242-2247
WA Applied Controls Lynwood 206-775-2999

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TONAWANDA NY 14120
TWX 710-262-1266 716-696-6000
E BORRO EMP 750 ENG 50 OVER \$10,000K
CA Durez Div Los Angeles 213-277-9499

DURGIN & BROWNE INC 80 ALLEN RD
S BURLINGTON VT 05401 802-863-6873
C RIGGS EMP 51 ENG 3 \$1,000-\$2,500K

D-VEL RESEARCH LABS INC
STAR ROUTE WILLIAMSBURG
NM 87942 505-894-6500
D VELZY EMP 3 ENG 1

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SORRENTO VALLEY BLVD SAN DIEGO
CA 92121 619-450-1766
D PETERSON EMP 5 ENG 3 \$500-\$1,000K

DYCO ELECTRONICS INC HORNELL
IND PK RD 2 HORNELL NY 14843 607-324-2030
R RECKENTWALD EMP 35 ENG 2 \$1,000-\$2,500K

CA Craig Assoc Woodland Hills 213-887-2444
CT Wood Sales Bloomfield 203-243-0457
FL Reynolds & Assoc Melbourne 305-259-7000
MA Enterprise Technology Plainville 617-695-4700
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NY B H Tollefson Rochester 716-271-4141
NC Barker Assoc Raleigh 919-851-7841
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TX Mech-Tron Marketing Austin 512-459-8202

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TWX 053-4969 613-728-3711
A DEMPSEY EMP 115 ENG 40 \$5,000-\$10,000K

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CT Diplomat Electronics Danbury 203-797-9677
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GA Diplomat Electronics Norcross 404-449-4133
IL Intercomp Hoffman Estates 312-843-2040
MD Diplomat Electronics Columbia 301-995-1226
MA Diplomat Electronics Woburn 617-935-6611
NJ Diplomat Electronics Totowa 201-785-1830
NY Diplomat Electronics Melville 516-454-6400
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WA I E C Bellevue 206-455-2727

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MA 01890 TWX 710-348-6596 617-729-7870
D MULLANEY EMP 60 ENG 12

AZ Relcom Phoenix 602-893-1209
CA Amasco Sunnyvale 408-733-8690
CA Amasco Carson 213-516-8561
CO F G Marketing Englewood 303-795-9176
MD KD Assoc Lithicum Hts 301-636-1151
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DYMEK CORP	1851 ZANKER RD	
	SAN JOSE CA 95112	
	TXW 910-338-2174	408-947-8700
	R BUTHERUS EMP 50 ENG 8 OVER \$10,000K	
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	TUSTIN CA 92680 TWX 692461	714-730-4200
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PA	Dynachem Carbondale	717-282-6846
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DYNAIR ELECTRONICS INC		
	5275 MARKET ST SAN DIEGO	
	CA 92114 TWX 910-335-2040	619-263-7711
	R JACOBS EMP 150 ENG 10 \$5,000-\$10,000K	
DYNALOY INC	7 GREAT MEADOW LA	
	HANOVER NJ 07936 TWX 642-033	201-887-9270
	S RINGEL EMP 50 ENG 5 \$1,000-\$2,500K	
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MD	Berwanger & Co Upperco	301-374-5354
MA	Eichomatic Inc Waltham	893-2020
MA	W MacDonald Tyngsboro	617-649-7788
MN	International Sales Co	
	Minneapolis	881-6683
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PA	Henry Mann Co Huntington Valley	215-355-7200
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FR	L Meredith Clarkson	416-822-9979
FR	Elosol Ltd Zurich Switz	56245
FR	KL Int'l S Orange, NJ	201-762-8299
DYNAMIC CONTROLS CORP 8		
	NUTMEG RD SOUTH WINDSOR	
	CT 06074 TWX 710-425-1994	203-528-9971
	R KOWALSKI EMP 450 ENG 55 OVER \$10,000K	
TX	E H Haag Box 12462 Ft Worth	817-536-5646
WA	Thorsen Co NW Bellevue	206-455-9180
DYNAMICS ELECTRONIC PRODUCTS INC		
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	CHATSWORTH CA 91311	
	TXW 69-6171	818-998-0121
	T MASTROIANNI EMP 100 ENG 6 \$1,000-\$2,500K	
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AZ	J Smith & Assoc Phoenix	602-267-0981
CA	Egbert Engrg Assoc Palo Alto	415-326-1387
CA	Dale-Dahl Assoc Los Alamitos	213-682-3417
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MO	J Smith & Assoc Albuq	505-265-3406
WA	Industrial Elctn Inst Lynnwood	206-775-3516
DYNAMICS RESEARCH CORP ENCODER		
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	MA 01887 TWX 710-347-6711	617-658-6100
	D SILVA EMP 150 ENG 8	
AZ	Thor Engineering Phoenix	602-437-1463
CA	Motion Systems San Jose	408-246-0641
CA	Comar Co Laguna Beach	714-250-0140
CO	Hi Technology Aurora	303-696-7040
CT	E S Williams Co Ridgefield	203-438-7474
FL	Brasley Tech Sales Tampa	813-251-6816
LA	TMC Engrg & Sales Wmette	312-628-6664
MA	Sturdy Corp Wellesley Hills	617-235-2330
MI	Fred H Gehrke & Assoc Southfield	313-559-5363
NI	Applied Motion Technology	
	Newport	612-459-0600
MO	Delltron Co St Louis	314-864-4779
NY	Controlled Motion Prods	
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NC	Jake Rudisill Assoc Charlotte	704-377-6901
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PA	Tyler Griffin Paoli	215-647-1550
TX	C R Colvin Assoc Houston	713-961-1262
TX	El-Tec Sales Ft Worth	817-268-2896
MI	Rep 1 & Assoc Colgate	414-628-4016
FR	Servo Tecnology Windsor ON	519-944-1332
DYNAMOTE CORP	1200 W NICKERSON	
	SEATTLE WA 98119 TWX 503732	206-287-1000
	G SCARBOROUGH EMP 25 ENG 1 \$1,000-\$2,500K	
	DISTRIBUTORS	
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CA	Hydraulic Energy Co San Rafael	415-472-0300
CO	Teague Equipment Co Denver	303-295-0782
FL	Bunts Auto Elec Homosassa	904-628-3222
N	Sauber Mfg Virgil	312-365-6600
IL	Altec Industries Indpls	317-872-3460
MA	Fleet Elect Service Worcester	617-755-8666
WA	Road Machine & Supplies Mnpls	612-835-3535
WO	Electric Parts & Service	
	Maryland Hts	314-878-4900
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	Holtsville	516-475-2055
OR	Utility Equipment Co Portland	503-620-0611
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	Butler	412-283-8400
PA	P A G E Co Allentown	215-395-3456
CA	A-Tec Inc San Antonio	512-667-1128
TX	A-Tec North Ft Worth	817-831-3532
TX	H & K Truck Equip SLC	801-974-0710
WA	Utility Equipment Co Seattle	206-624-1412
WA	Utility Equipment Co Spokane	509-928-9573

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FR	O E M Battery Sys Surry BC	604-584-4088
DYNAPAR CORP	1675 DELANY RD	
	GURNEE IL 60031	
	TXW 910-235-1865	312-662-2666
	S KOEHLER EMP 100 ENG 10	
DYNASIL CORP OF AMERICA		
	COOPER RD BERLIN NJ 08009	609-767-4600
	B LEONETTI EMP 29	
DYNATECH COMPUTER POWER INC		
	4744 SCOTTS VALLEY DR	
	SCOTTS VALLEY CA 95066	
	TXW 408-438-5793	800-638-9098
	R MARCHITTI EMP 41 ENG 4 \$5,000-\$10,000K	
DYNATECH PACKET TECH 6464		
	GEN GREEN WAY ALEXANDRIA	
	VA 22312 TWX 901760	703-642-9391
	J HARRISON EMP 120	
DYNATEC SYSTEMS INC	870 E 9400 S	
	SANDY UT 84070	801-572-6867
	R CHECKETTS	
AZ	SMS & Assoc Scottsdale	602-998-0831
CA	Advanced Products Westlake Vlg	818-706-8351
CA	IFM Milpitas	408-945-5920
FL	Lobo Mktg Ft Lauderdale	305-563-8239
IL	G & E Instruments Downers Grove	312-953-9622
NH	MJT Assoc Nashua	603-889-5373
DYNATECH DATA SYSTEMS 7644		
	DYNATECH CT SPRINGFIELD	
	VA 22153 TWX 494-4431	703-569-9000
	M COLEMAN EMP 290 ENG 35 OVER \$10,000K	
CA	R McBride San Mateo	415-342-2895
CA	W Prunkle Torrance	213-543-5050
GA	T Keel Atlanta	404-984-2544
IL	H Worsham Des Plaines	312-699-6310
MI	G Conti Grosse Pointe	313-885-8546
NJ	B Winston Fort Lee	201-585-0037
NY	C Baker Mamaroneck	914-381-2731
NC	C Williams Chapel Hill	919-942-0016
OH	G Herlet Rocky River	216-331-1995
TX	R Seifert Dallas	214-247-7841
DYNATECH UZ INC	589 VENICE BLVD	
	VENICE CA 90291	213-392-9821
	TXW 910-343-6907	
	N RENFROW EMP 120 ENG 12 \$2,500-\$5,000K	
CA	RDH Assoc Box 91251 LA	213-396-4100
CA	Stout Industries Sunnyvale	408-746-0470
CO	J Smith & Assoc Colo Springs	303-597-5343
FL	SparTech Assoc Palm Bay	305-727-8045
GA	SparTech Assoc Atlanta	404-446-7300
KS	Web Electronics Overland Pk	413-381-7986
MD	C L Malinow & Co Randallstown	301-922-2092
MA	B B C Chelmsford	617-452-7211
MN	Deerland Distr Mnpls	612-331-6433
MO	Web Electronics Florissant	314-921-5720
NM	J Smith & Assoc Albuq	505-265-3406
NY	CDB Enterprises Huntington	416-692-5200
OH	F L Ohmer & Assoc Dayton	513-434-1454
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WA	Thorsen Co NW Bellevue	206-455-9180
DYNEER SENSOR TECHNOLOGY		
	21021 LASSEN ST CHATSWORTH	
	CA 91311 TWX 910-494-4776	818-882-4100
	R DAHL EMP 200 ENG 6 \$5,000-\$10,000K	
DYNETIC SYSTEMS CORP	19128	
	INDUSTRIAL BLVD ELK RIVER	
	MN 55330	612-441-4300
	L BURGERS EMP 50 ENG 3 \$1,000-\$2,500K	
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CA	Alfred Barauk Co Palo Alto	415-327-7711
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	Des Plaines	312-699-9790
MN	Precision Movement Shoreview	612-483-0841
NY	Magna Products Corp Pittsford	716-586-8621
NY	Eastern Metro Assoc 3 Eva La Plainview	
NC	CC Kernersville	919-996-4374
OH	H W Applegate Inc Westlake	216-331-2960
DYNISCO	10 OCEANA WAY NORWOOD	
	MA 02062 TWX 174292	617-769-6600
	A FIRENZE EMP 160 ENG 8 OVER \$10,000K	
AZ	Finn Pat Co Phoenix	602-954-0301
AR	Beacon Elctns Little Rock	501-224-5449
CA	T L Snitzer Co Los Angeles	213-836-6170
CA	T L Snitzer Co Cupertino	408-257-8333
FL	Beacon Elctns Ft Lauderdale	305-491-1054
GA	Beacon Elctns Atlanta	404-256-9640
IL	Thermo-Cense Mundelein	312-949-8070
IL	R L Weisheimer & Assoc Columbia	618-281-4148
MI	Andruss Peskin Corp Natick	617-653-3919
MA	Anderson Elctns Farmington Hills	313-553-7600
MN	CT Sales Mnpls	612-374-1241
MO	Boschert Equip Co No KC	816-221-1510
NJ	Tridon Sales Co Cresskill	201-569-8011
NC	Beacon Elctns Raleigh	919-787-0330
OH	Orr Assoc Parma	216-885-1324
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TX	Ken Dawson Co Dallas	214-241-3843
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	CHAPMAN AVE GARDEN GROVE	
	CA 92641 TWX 910-590-8023	714-891-2665
	J WILLIAMS EMP 100	

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MA	Eastco Boston	617-329-3000
OR	Abacus Info Sys Portland	503-399-9065
PA	Robec Inc Philadelphia	215-368-9300
TN	Multi-Computer Prods Nashville	615-528-7777
EAGLE MAGNETIC CO INC	BOX 24283	
	INDIANAPOLIS IN 46224	
	TXW 810-341-3386	317-297-1030
	B JACKSON EMP 43 ENG 4 \$2,500-\$5,000K	
	ADV PG 419	
EAGLE-PICHER INDUSTRIES INC		
	BOX 737 QUAPAW OK 74363	
	TXW 910-840-3271	918-673-1650
	D THOMAS EMP 95 ENG 9 OVER \$10,000K	
EAGLE-PICHER INDUSTRIES		
	INC ELECTRONICS DIV BOX 47	
	JOPLIN MO 64801	
	TXW 910-774-4508	417-623-8000
	R REPELLINGER EMP 700 ENG 90 OVER \$10,000K	
EAGLE SIGNAL CONTROLS DIV		
	WICKES MFG CO 8004 CAMERON RD	
	AUSTIN TX 78753	512-837-8300
	J JOYCE EMP 500 ENG 50 OVER \$10,000K	
	DISTRIBUTORS	
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CO	Anderson Controls Denver	303-692-0290
IL	Kelburn Engrg Chicago	312-775-8383
IL	Jim Otis & Assoc Moline	309-762-9311
MA	Gibson Engrg Norwood	617-769-3600
MI	Ralph Ernest & Assoc Detroit	313-861-7311
MN	Hallock Co Mnpls	612-835-7100
MO	Richard Greene Co St Louis	314-994-0222
NJ	Ribble Engrg Saddle Brook	201-791-0233
TX	Trach-Quip Inc Houston	713-473-2891
WA	Bacon Instr Co Seattle	206-762-6050
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	1353 ARMOUR BLVD MUNDELEIN	
	IL 60060	312-367-8282
	EMP 25 ENG 14 \$5,000-\$10,000K	
CA	Scientific Devices	714-840-3501
CA	Scientific Devices	213-598-7678
EALING CORP	22 PLEASANT ST	
	SOUTH NATICK MA 01760	617-655-7000
	K MCKAY EMP 300 ENG 20 OVER \$10,000K	
EAO SWITCH CORP	198 PEPES	
	FARM RD BOX 552 MO MILFORD	
	CT 06460 TWX 964347	203-877-4577
	R MAIER	
	ADV PG 437	
AZ	Luscombe Engrg Co Scottsdale	602-949-9333
CA	Luscombe Engrg Co Pasadena	213-684-2000
CA	Luscombe Engrg Co Campbell	408-370-2020
CO	Luscombe Engrg Co Boulder	303-772-3342
CT	Ray Perron & Co Farmington	203-673-4825
FL	Conley & Assoc Oviedo	305-365-3283
IL	Brainard-Wilson Mktg Arlington	
	Hts	312-437-2700
IN	M/S Sales & Assoc Ft Wayne	219-436-3023
MD	Delta III Assoc Columbia	301-730-4700
MA	Ray Perron Needham	617-449-6162
MI	Jay Mktg Assoc Plymouth	313-459-1200
MN	Highland Elctn Sales Golden	
	Valley	314-869-4779
MO	Delltron Co St Louis	314-869-4779
NH	Ray Perron & Co Dover	603-742-2321
NJ	Sprung/Nussbaum Englewood	201-569-5666
NY	Apex Assoc Rochester	716-254-6050
OH	Jay Mktg Assoc Mentor	216-257-5244
OR	Luscombe Engrg NW Lake Oswego	503-636-9200
PA	Jacobson Assoc Hatboro	215-674-2937
TX	Glidden Electro Equip Co Dallas	214-341-0610
WI	Badgerp Mequon	414-241-9200
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AL	RM Alabama Huntsville	205-852-1550
AZ	Minarik Elec Phoenix	602-233-3000
AZ	Harper SID Tempe	602-967-1464
CA	Harper SID Sunnyvale	408-747-0333
CA	Harper SID Compton	213-979-5090
CA	Harper SID San Diego	619-560-8545
CA	Electrosonic Components	
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CA	Electric Control Devices	
	Burlingame	415-348-0791
CA	Minarik Electric Los Angeles	213-624-3161
CA	Calif Switch & Signal Gardena	213-770-2330
CA	Minarik Elec San Diego	619-560-6632
CA	Minarik Elec Santa Clara	408-727-0575
CA	Electric Control Devices Manteca	209-239-6659
CA	Dansco Comp Sales San Jose	408-292-9740
CO	CSID Inc Denver	303-292-9594
CT	Minarik Elec Co Denver	303-329-3525
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	Svcs Stonington	203-535-0661
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IL	Advent Elect Rosemont	312-297-6200
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IL	R M Illinois Elk Grove Village	312-364-6622
IN	R M Indiana Indpls	317-291-7110
KY	Peerless Elc Louisville	502-637-7674
LA	Menard Elect Baton Rouge	504-355-0323
LA	Gulfside Supply Harahan	504-733-4481
ME	Nelson & Wright West Buxton	207-929-8238
MD	Axis Elect Gaithersburg	301-840-9640
MA	Impact Sales Co Canton	617-821-1500
MI	RM Elec Grand Rapids	616-531-9300
MI	SPEMCO Switches St Clair Shores	313-771-2700
MN	Electronic Cent Mnpls	612-371-520

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NY	Summit Elect Rochester	716-334-8110
NY	Modutec Corp Rochester	716-647-9700
NY	Martin-Audio/Video New York	212-541-5900
NY	Key Components Bohemia	516-567-7500
NY	Modutec Corp East Syracuse	315-437-6666
NC	Kirkman Elect Winston-Salem	919-722-9131
NC	Electronic Mktg Corp Charlotte	704-394-6195
OH	Electronics Mktg Corp Columbus	614-299-4161
OH	Electronics Mktg Corp Highland Hts.	216-442-3441
OK	Radio Inc Tulsa	918-587-9123
OR	Minarik Electric Co Portland	503-253-3402
PA	Advacom McKean	814-476-7774
PA	Grant Indus Controls Pittsburgh	412-787-9770
PA	Kimberly-James Co Norristown	215-666-7286
PA	Advacom Lancaster	717-299-5615
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TX	R M Dallas Dallas	214-263-8361
TX	Harper SID Richardson	214-235-3177
TX	Minarik Elec Co San Antonio	512-822-7097
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WI	Marsh Elect Corp Milwaukee	414-475-6000

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CT 06108 203-528-9821
M BENGALA EMP 100 ENG 6 \$2,500-\$5,000K

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NY 11550 TWX 968095 516-483-7070
L PITT EMP 10

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WOBBURN MA 01801 617-935-8600
F ODDI EMP 49 ENG 5 \$2,500-\$5,000K
IL Tech Mktg Inc Glenview 312-699-8415
VA Mfg Reps Intl Alexandria 703-370-5039

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MA 01901 617-599-9000
D DECAREAU EMP 65

EASTMAN CHEMICAL PRODUCTS INC
BOX 431 KINGSFORD TN 37662
TWX 810-574-5175 800-327-8626
J MAHAFFEY EMP 1000 OVER \$10,000K

CA Wilson & Geo Meyer & Co
S San Fran 415-871-1770
CA Wilson & Geo Meyer & Co
Santa Fe Sprgs 213-946-2311
CO Wilson & Geo Meyer & Co
Englewood 303-773-8755
OR Wilson & Geo Meyer & Co Portland 503-265-1468
WA Wilson & Geo Meyer & Co Seattle 206-284-1620
FR Eastman Chem Intl Ltd Montreal PQ 514-483-1180

EASTMAN KODAK CO 343 STATE ST
ROCHESTER NY 14650 716-724-4000
EMP 136400

EASTPRINT INC BOX 855 S V
ANDOVER MA 01810 617-475-8960
A HICKEY EMP 40 ENG 3 \$2,500-\$5,000K
CA Deangelo, Rothman & Co
Culver City 213-827-2202

CA James S Heaton Co Redwood City 415-367-9000
FL Lawrence Assoc Boca Raton 305-368-7373
IL Micro Tex Inc Schaumburg 312-885-1131
MN Com-Tek Sales Mnpls 612-888-7011
NC D P Riggins & Assoc Charlotte 704-375-7550
TX Dyna Mark Tech Sales Dallas 214-340-1800

EASY ELECTRONIC CO BOX 7204
FREMONT CA 94537 415-792-1030
EMP 15 ENG 1

EATON CORP TECHNICAL RESEARCH PK
RIVERTON WY 82501
TWX 910-949-4864 307-856-4821
T ELLIOTT EMP 160 ENG 15 OVER \$10,000K
CA Eaton Corp Walnut 714-594-6839
IL Eaton Corp Elmhurst 312-279-8220
MA Eaton Corp Billerica 617-667-8517
TX Eaton Corp Houston 713-847-5335
WI Eaton Corp Watertown 414-261-4070
FR Producto-Systemes Inc Montreal PQ 514-381-3136

DISTRIBUTORS
CA Powermatic Assoc Oakland 415-635-6825
IL Automation Equip Mt Prospect 312-398-7550
LA Industrial Elect Baton Rouge 504-926-0513
MD Mico Log Gaithersburg 301-258-8400
MI Kendall Electric Battle Creek 616-963-5585
MN Duncan Co Mnpls 612-331-1776
NJ MacPerson Control Prods Westfield 201-233-4010
NC Telephones Plus Charlotte 704-525-2525
OK Carlton-Bates Co Tulsa 918-250-1626
PA Wycote Inst Co Glenside 215-512-6500

EATON CORP AIL DIV COMAC RD
DEER PARK NY 11729
TWX 510-227-6073 516-595-5000
R FRECHEN EMP 4800 OVER \$10,000K
AZ T Buono Glendale 602-934-4387
CA D Ness Marina Del Rey 213-822-1324
GA J Price Warner Robins 912-929-1034
MA J Graham Bedford 617-274-0770
NJ D Couvillion Eatontown 201-389-3388
OH A Vogel Dayton 513-254-3511
VA M T Maxwell Arlington 703-521-3300
WA M Walsh Oak Harbor 206-679-5535

EATON CORP/CUTLER-HAMMER PRODUCTS
4201 N 27TH ST MILWAUKEE
WI 53216 TWX 910-262-3089 414-449-6000
W GENNE EMP 4500 ENG 600 OVER \$10,000K
AL Cutler-Hammer Birmingham 205-822-0411
AZ Cutler-Hammer Tempe 602-968-2451
AR Cutler-Hammer Little Rock 501-664-1583
CA Cutler-Hammer Brea 714-528-6680
CA Cutler-Hammer San Mateo 415-345-1181
CO Cutler-Hammer Lakewood 303-934-5413
CT Cutler-Hammer Farmington 203-677-1811
FL Cutler-Hammer Jacksonville 904-725-2845
GA Cutler-Hammer Atlanta 404-939-3023
IL Cutler-Hammer Palatine 312-991-5588
IN Cutler-Hammer Indpls 317-546-4096
IA Cutler-Hammer Davenport 319-326-3182
KS Cutler-Hammer Shawnee Mission 913-236-6313
MD Cutler-Hammer Baltimore 301-265-1630
MA Cutler-Hammer Westboro 617-366-9389
MI Cutler-Hammer Southfield 313-353-5711
MN Cutler-Hammer Mnpls 612-829-0517
MO Cutler-Hammer Chesterfield 314-878-3355
NE Cutler-Hammer Omaha 402-572-1460
NJ Cutler-Hammer Union 201-687-4433
NM Cutler-Hammer Albuq 505-293-6280
NY Cutler-Hammer Jericho 516-997-7100
NY Cutler-Hammer Buffalo 716-836-4444
NC Cutler-Hammer Charlotte 704-542-3400
OH Cutler-Hammer Westlake 216-835-5500
OK Cutler-Hammer Tulsa 918-627-3312
OR Cutler-Hammer Portland 503-226-1181
PA Cutler-Hammer Wayne 215-688-4810
SC Cutler-Hammer Greenville 803-288-4183
TN Cutler-Hammer Memphis 901-685-5222
TX Cutler-Hammer Dallas 214-570-4715
UT Cutler-Hammer SLC 801-364-8139
VA Cutler-Hammer Richmond 804-794-1580
WA Cutler-Hammer Bellevue 206-881-5975
WV Cutler-Hammer Dunbar 304-768-7389
WI Cutler-Hammer Milwaukee 414-354-6050

EATON CORP ELCTN INST DIV
2070 FIFTH AVE RONKONKOMA
NY 11779 TWX 510-228-6507 516-588-3600
G MCCARTHY EMP 600 ENG 100 OVER \$10,000K

EATON CORP ENGINEERED FASTENERS
DIV BOX 6688 CLEVELAND
OH 44101 TWX 810-421-8678 216-523-5361
B KAYE EMP 400 ENG 5 OVER \$10,000K
OH Eaton Engrd Fasteners Cleveland 800-221-2344

DISTRIBUTORS
CA Bolt Products Inc City of Industry 213-961-4400
CA H W Eckhardt Corp Garden Grove 714-891-4435
CA Wachtel Co Mt View 415-968-2515
GA Georgia Industrial Fasteners Norcross 404-448-6370
IL Anchor Bolt & Screw Co Melrose Park 800-323-0223
IN Service Supply Co Indpls 317-638-2420
MD L A Benson Co Baltimore 301-342-9220
MA Electronic Fasteners Inc Waltham 617-890-7838
MI Barmal Fastener Corp Farmington Hills 313-477-8100
MN Arden Fasteners St Paul 800-328-9111
MO Engineered Fastener Co St Louis 314-434-2421
NY Industrial Fasteners Corp Roslyn 516-484-4400
OH Fastener House Cleveland 216-861-1800
TX Advance Components Inc Carrollton 214-661-2410

EATON CORP MICROWAVE PRODS DIV
955 BENICIA AVE SUNNYVALE
CA 94086 TWX 910-339-9556 408-730-6300
EMP 400 ENG 30
AZ Sierra Tech Group Tempe 602-894-2330
CA EBA Microwave Irvine 714-857-6070
CA Midwin & Olifson Tarzana 213-996-9090
CO Sierra Tech Group Englewood 303-790-1700
FL Microwave Mktg Winter Pk 305-678-2141
IL Feller Assoc Northfield 312-446-8060
IA S & O Sales Cedar Rapids 319-393-1840
ME Micronic Assoc Ogunquit 617-933-2120
MD Youth Assoc Silver Spring 301-598-5774
MO O'Sullivan & Murphy Hingham 617-749-8668
NM IMEC Albuquerque 505-883-9010
OH Micro Sales Corp Centerville 513-433-8170
PA Rabal Assoc Huntingdon Valley 215-947-4822
TX Stevens Sales Co Dallas 214-350-2470
WA Ecco Marketing Seattle 206-364-0200

EATON CORP/MSC PRODUCTS
1640 MONROVIA AVE COSTA MESA
CA 92627 TWX 6-78433 714-642-2420
EMP 400 ENG 25 OVER \$10,000K
AL Brandel-Stephens Co Huntsville 205-883-0444
CA Eaton/MSC Mtn View 415-967-0600
CO Dynatech Englewood 303-773-2883
FL Brandel-Stephens Co Orlando 305-425-3200
GA Brandel-Stephens Co Atlanta 414-261-7570
MD Eaton/MSC Towson 301-296-9640
MA Eaton/MSC Lexington 617-863-5420
MN Eaton/MSC Mnpls 612-831-8666
NC Brandel-Stephens Co Greensboro 919-274-6995
PA Eaton/MSC Westchester 215-692-9112

DISTRIBUTORS
CA Richey/Western Elect Garden Grove 714-895-0000
CA Richey/Western Elect San Diego 619-271-4500
CA C Tennant & Sons Laguna Hills 714-581-1414
FL Milgray Elect Winter Park 305-647-5770
GA Milgray Elect Atlanta 404-393-9660
IL Magnuson Elect Mt Prospect 312-956-6770
IL L Comp Inc Addison 312-628-1410
KS Tennant Elect Edwardsville 913-441-1810
KS L Comp Inc Wichita 316-265-5111
MD Pioneer WA Gaithersburg 301-921-0600
MD Milgray Elect Kensington 301-621-6161
MA Sager Hingham 617-749-6770
MN Magnuson Elect Eden Prairie 612-227-8400
MO L Comp Inc KC 816-221-2400
NJ Milgray Elect Marlton 609-983-5000
NY Modutec Rochester 716-424-1610
NY Pioneer/Harvey Woodbury 516-921-8770
TX Norvell Elect Dallas 214-233-0000
TX Coulomb Elect Assoc Austin 512-258-3000
FR SCA Switch Spec Markham ON 416-495-9500

DISTRIBUTORS
FR Associated Aircraft Austin 214-331-4330

EATON SEMICONDUCTOR EQUIP OPER
4001 N FIRST ST SAN JOSE
CA 95134 408-943-0800
D RICCIO EMP 1200
AZ Eaton Corp Tempe 602-829-0360
CA Eaton Corp Tustin 714-730-1360



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(516) 593-2121, in NYC (718) 523-3456
In New Jersey (201) 592-0351, 0358, 0364
Cable: PEERADIO TWX 510-225-8422
Call Toll Free 800-645-2268



Peerless Radio Corporation — Florida
3161 S.W. 14th Ct. Pompano Beach, Florida 33069
(305) 973-4141
TWX 510-956-3118
Call Toll Free 800-327-4993 • In Florida 800-432-8899

CA	Eaton Corp San Jose	408-942-1555
CO	Eaton Corp Colo Springs	303-594-0031
CT	Eaton Corp Danbury	203-744-0096
FL	Eaton Corp Altamont	305-331-8052
MN	Eaton Corp Crystal	612-544-3733
NJ	Eaton Corp Cherry Hill	609-424-7650
TX	Eaton Corp Richardson	214-690-8914

EBERHARD MFG CO 21954 DRAKE RD
STRONGSVILLE OH 44136
TWX 98-5301 216-238-9720
E HONGOSH EMP 130 ENG 11

EBM INDUSTRIES INC 525
NEW BRITAIN AVE UNIONVILLE
CT 06085 TWX 710-423-8723 203-674-1515
R SOBOLEWSKI EMP 500 ENG 20 OVER \$10,000K

AL	Raycorn Inc Huntsville	205-859-2017
AZ	Harris & Crox Scottsdale	602-951-9121
CA	Ross Mktg Santa Clara	408-988-8111
CA	Wiley Co LA	213-666-1611
CO	Simpson Assoc Littleton	303-794-8381
CT	Selmark Assoc Clinton	203-773-9088
FL	Raycorn Inc Wellborn	904-963-5023
GA	Raycorn Inc Marietta	404-952-6061
IL	Beta Tech Sales Glendale Hts	312-790-9886
IN	Technical Representatives Columbus	812-376-9226
KS	Web Assoc Overland Pk	913-381-7986
MD	Delta III Assoc Columbia	301-730-4700
MA	Selmark Assoc Millis	617-376-2914
MI	Burcaw Co Warren	313-573-4605
MN	ARKCO Sales St Paul	612-777-7454
MO	Web Assoc Florissant	314-921-5720
NH	Selmark Assoc Hopkinton	603-746-4507
NJ	b.g.r. Assoc Marlton	609-883-1020
NY	Rudell-Merrifield Assoc Buffalo	716-634-4300
NY	Lorac Sales Hicksville	516-681-8746
NC	Raycorn Inc Raleigh	919-847-8276
OH	KT/Depco Cleveland	216-442-6200
OK	B-P Sales Tulsa	918-744-9964
OR	Earl & Brown Portland	503-245-2283
PA	Rudell-Merrifield Harrison City	412-327-0858
TX	B-P Sales Richardson	214-234-8438
UT	Simpson Assoc Midvale	801-566-3691
WA	Earl & Brown Seattle	206-284-1121
WI	Beta Tech Sales Mukwonago	414-363-5086
FR	Selmark Assoc Bayamon PR	809-725-8576

DISTRIBUTORS		
AZ	Hall Elect Scottsdale	602-946-9977
CA	Young Sales Fullerton	714-871-5355
CA	Yale Radio Hollywood	213-465-3186
CA	Deco Electronics San Diego	619-693-1595
CO	Integrated Elect Denver	303-534-6121
CT	Pilgrim Elect Danbury	203-792-7274
GA	Frankland Elect Fayetteville	404-461-4026
IL	Advent Elect Rosemont	312-297-6200
MD	Rescol Balt White Marsh	301-529-0500
MA	Impact Sales Canton	617-821-1500
MI	S F Elect Grand Rapids	616-459-0216
NJ	Berquist Bloomington	212-835-2322
NJ	Powell Elec Englewood	201-894-0800
NJ	GCI Berlin	609-768-6767
NY	Simcon Rochester	716-328-3230
NY	Addem Sales Farmingdale	516-752-9303
NC	Century Elect Raleigh	919-872-2203
OH	Related Components Dayton	513-253-6116
OR	Integrated Elect Tigard	503-639-9661
PA	Century Elect Norristown	215-631-5400
RI	Cal-Greg Components Warwick	502-884-5100
TN	Techni-Tronics Hickson	615-842-0514
TX	Powell Elect Irving	214-258-6841
UT	Integrated Elect No Salt Lake	801-298-1868
WA	Integrated Elect Bellevue	206-455-2727
WI	Taylor Elec Meguon	414-241-4321
FR	Harvest Elect Caguas	809-743-3552

EBY CO 2751 SOUTHAMPTON RD
PHILADELPHIA PA 19154
TWX 710-670-0452 215-969-4200
J LAGSDON EMP 200 ENG 5 OVER \$10,000K

AZ	Bill Earl Assoc Scottsdale	602-994-3813
CA	Galaxie Sales Brea	213-680-3384
CA	J W Wilhoit Inc Los Altos	415-961-3660
CO	R F Mayo Assoc Boulder	303-499-2155
FL	EPM Corp Coral Springs	305-755-5387
GA	Geo Whitfield Co Marietta	404-992-5931
IL	Rendell Sales Skokie	312-967-1513
IN	Given Corp Ft Wayne	219-432-5585
MA	Anchor Engrg Corp Newton	
	Upper Falls	617-964-6205
MI	Electronic Sources Inc Brighton	313-227-3598

MN	Grayden & Flemmer Edina	612-941-1120
NY	Bastian Sales Agency Fairport	716-223-0237
NY	MOS Assoc Great Neck	516-487-3966
NC	Geo Whitfield Co Snow Hill	919-747-8442
OH	J N Bailey & Assoc New Lebanon	513-226-0512
OR	Doran Sales Forest Grove	503-357-3333
TX	Stevens Sales Co Dallas	214-350-2476
WA	Doran Sales Redmond	206-885-1885
FR	Deskin Sales Markham ON	416-475-1412

DISTRIBUTORS		
AL	Electronic Supply Co Mobile	205-478-0455
CA	Logan Elect Burlingame	415-697-6481
CA	ITAL Elect Sales City of Industry	213-968-8515
CA	Integrated Elect Chatsworth	818-998-2200
CA	Integrated Elect Sacramento	916-424-5297
CO	Integrated Elect Denver	303-292-6121
FL	Nurmi Elect W Palm Beach	305-686-8553
GA	ACK Radio Supply Atlanta	404-351-6340
IL	Integrated Elect Hoffman Estates	312-843-2040
KY	P I Burkes Co Louisville	502-589-3960
NY	EBY Sales Co of NY New York	212-291-3232
NY	Rome Elect Rome	516-337-5400
NY	E E Taylor Albany	518-438-7811
NY	Electronic Equip Hempstead	212-895-5757
NC	South Eastern Elec Raleigh	919-288-2311
OR	Integrated Elect Tigard	503-639-9661
PA	Electronic Comps for Industry York	717-843-8971
SC	Dixie Electronics Columbia	803-779-5332
TN	Randolph & Rice Nashville	615-255-5602
TX	Midland Specialty Co El Paso	515-533-9555
UT	Integrated Elect No SLC	801-298-1869
VA	People Elect Supply Roanoke	703-342-8933
WA	Integrated Elect Bellevue	206-455-2727

ECHOLON INDUSTRIES INC
20681 E TRUSS ST WALNUT
CA 91789 714-594-1891

ECKSTEIN BROS INC 4807
W 118TH PL HAWTHORNE CA 90250 213-772-6113
J SPAULDING EMP 12 ENG 3 \$500-\$1,000K

ECO INSTRUMENTS DIV SEA DATA CORP
1 BRIDGE ST NEWTON MA 02158
TWX 951107 617-964-8360
J SHIPMAN EMP 40 ENG 10 OVER \$10,000K

DISTRIBUTORS		
CA	Western Analytical Yorba Linda	714-777-1670
GA	Spectrum Scientific Liburn	404-921-5235
IL	Byron Ellis Assoc Des Plaines	312-298-7626
MD	Renwar Technologies Gaithersburg	301-949-9808
MI	Scientific Pittsburgh W Bloomfield	313-851-2390
NM	Hiltech Albuquerque	505-268-1733
PA	Engleman Engrg Paoli	215-644-8181
TX	Sales Tech Assoc Houston	713-723-3228
WA	Palco Scientific Kirkland	206-823-2290
ECP CORP 4726 SUPERIOR AVE CLEVELAND OH 44103 216-391-0444 K MELLE EMP 20 ENG 1 \$500-\$1,000K		
ECS COMPOSITES 3560 ROGUE RIV HWY BOX 188 GRANTS PASS OR 97526 TWX 510-755-0777 503-476-8871 T HELMAN EMP 150 ENG 7 \$5,000-\$10,000K		
CA	Ross Mktg Assoc Santa Clara	408-988-8111
CA	Westec Laguna Hills	714-770-6229
CO	Electronic Component Sales Englewood	303-781-5904
FL	OEM Mktg Corp Orlando	305-299-1000
MA	Apex Assoc Westwood	617-326-5042
NJ	Northeast Sales Teaneck	201-833-2044
TX	Advance Technical Sales Dallas	214-340-1300

ECTRON CORP 8159 ENGINEER RD
SAN DIEGO CA 92111
TWX 910-335-1259 619-278-0600
W HANFORD EMP 50 ENG 5 \$2,500-\$5,000K

AL	Saber Assoc Huntsville	800-327-0853
AZ	Aztec Entrys Phoenix	602-944-9185
CA	FLW Costa Mesa	714-751-7512
CA	FLW Hayward	415-786-9070
CO	Aztec Entrys Denver	303-779-5285
FL	Saber Assoc Melbourne	305-724-0920
IL	Sector Eng Elmhurst	312-530-7850
IN	Sector Eng Indianapolis	317-842-1120
KS	Ramsey Assoc Lenexa	913-541-1007
LA	Sesco Inc Baton Rouge	504-928-4951

MD	Electronic Mktg Assoc Rockville	301-744-7700
MA	Addelo Needham	617-444-4754
MI	Satullo Co Royal Oak	313-549-3910
MO	Ramsey Assoc Maryland Hts	314-878-5042
NM	Aztec Entrys Albuquerque	505-262-1688
NY	Ossmann Inst East Syracuse	315-437-7052
NY	Eastern Metro Assoc Plainview	516-931-1414
OH	Instrumentation Sys Dayton	513-294-2838
OK	Sesco Inc Tulsa	918-622-3686
PA	Instrumentation Sys Pittsburgh	412-243-1111
TX	Sesco Inc Austin	512-892-2490
UT	Aztec Entrys Ogden	801-621-1655
WA	Datacom Assoc Seattle	206-285-2525
FR	Intertechnology Inc Don Mills ON	416-445-5500

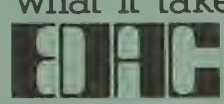
EDAC INC 20 RAILSIDE RD
DON MILLS ON M3A1A4
TWX 610-492-1398 416-445-2292
A LITTLE EMP 140 ENG 4

AL	Electronic Mktg Assoc Huntsville	305-837-7303
AZ	Electronic Dev & Sales Tempe	602-438-1547
CA	Engineering Assoc Santa Clara	408-988-5001
CA	Universal Components Co LA	213-641-4255
CO	Sage Sales Aurora	303-750-3501
CT	SIR Assoc Madison	203-245-2242
FL	Electronic Mktg Corp Casselberry	305-339-7070
IL	Control Sales Elk Grove Vlg	312-595-2110
IA	Palatine Eng & Sales Cedar Rapids	319-365-8071
KS	Palatine Eng & Sales Mission	913-831-0555
KY	J C Hofstetter Co Dayton OH	513-296-1010
LA	Allied Components Inc Dallas	214-238-0408
MD	Naudain Assoc Woodbine	301-442-2270
MA	SIR Assoc Bedford	617-275-5550
MI	Favco Technical Reps Birmingham	313-644-0173
MN	Holmgren Assoc Spring Lakes Pk	612-786-7641
MO	Palatine Eng & Sales Hazelwood	314-839-0800
NY	Win-Cor Elect Sales Manhasset	516-627-9474
OH	J C Hofstetter Co Medina	216-241-4880
OK	Allied Components Tulsa	918-496-8249
OR	Earl & Brown Co Portland	503-245-2283
PA	Jacobson Assoc Harboro	215-674-2937
TX	Allied Components Houston	713-988-1600
UT	Sage Sales SLC	801-485-5111
WA	Earl & Brown Co Seattle	206-284-1121
WI	Control Sales Thiensville	414-242-4580
FR	Hi-Tech Sales Ltd Burnaby BC	604-524-2131
FR	Shelly Newman Montreal PQ	514-486-6984

DISTRIBUTORS		
AL	Pioneer Electr Huntsville	205-837-9300
AZ	Fiesta Elect Scottsdale	602-948-3573
AZ	Fisher Brownell Co Tempe	602-967-1464
CA	Fisher Brownell Alhambra	213-289-0255
CA	Fisher Brownell San Diego	714-560-8545
CA	Dunlap Electronics Sacramento	916-444-8070
CA	Dunlap Electronics Hayward	415-352-1933
CA	Time Elect/Norcal Sunnyvale	408-734-9888
CO	Integrated Electronics Denver	303-534-6161
CT	Heiland Elect Bethel	203-797-8600
CT	Midan Elect Wallingford	203-265-2077
CT	Connector Co New Haven	203-624-0217
FL	Pioneer Electr Altamonte Springs	305-834-9090
IL	Classic Components Northbrook	312-272-9650
IL	Lectro Components Addison	312-543-1680
MD	Pioneer Electr Gaithersburg	301-948-0710
MD	Pytronic Industries Savage	301-792-0780
MA	Heiland Elect Burlington	617-272-5610
MA	Sterling Elect Waltham	617-894-6200
MI	Madison Elect Warren	313-778-7640
MO	LCOMP Inc Kansas City	816-221-2400
MO	LCOMP Inc Maryland Hts	314-291-6200
NH	Heiland Elect Hudson	603-883-9536
NJ	Resco Electr Pennsauken	609-662-4000
NY	Peerless Radio Corp New York	516-593-2121
NY	QAR Ind Elect Sales Mount Vernon	914-699-2224
NC	Pioneer Electr Greensboro	919-273-4441
OH	Schuster Elec Cincinnati	513-984-1600
OH	Schuster Elec Twinsburg	216-425-8134
OR	Zepher Electr Sales Salem	503-399-8503
PA	Pioneer Electr Horsham	215-674-4000
PA	Pytronic Industries Harrisburg	717-236-8001
PA	P A Peters Allentown	215-434-5337
TX	Fisher Brownell Richardson	214-235-3717
TX	Heiland Elect Dallas	214-351-2050
UT	Standard Supply Co SLC	303-486-3371
VA	Sterling Elec Richmond	804-226-2190
WA	Zepher Electronic Sales Seattle	206-241-1980
WI	R M Wisconsin New Berlin	414-784-4420
FR	Cardinal Ind Elect Ltd Edmonton AB	403-483-6266
FR	Cardinal Ind Elect Ltd Calgary AB	403-259-6817



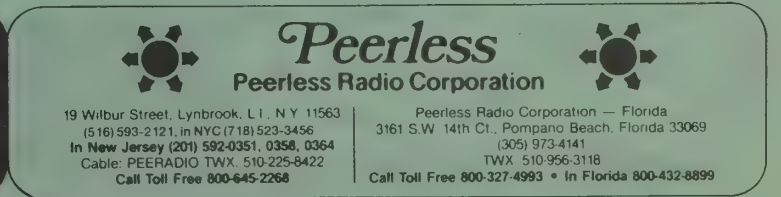
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In New Jersey (201) 592-0351, 0350, 0364
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Call Toll Free 800-445-2268

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3161 S.W. 14th Ct., Pompano Beach, Florida 33069
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TWX 510-956-3118
Call Toll Free 800-327-4993 • In Florida 800-432-8899

FR	Varah's Ltd Calgary AB	403-276-8818
FR	RAE Ind Elect Ltd Burnaby BC	604-291-8866
FR	Varah's Ltd Vancouver BC	604-873-3211
FR	Varah's Ltd Winnipeg MB	204-633-6190
FR	Carsten Electr Scarborough ON	416-751-5002
FR	C M Peterson London ON	519-434-3204
FR	Electro Sonic Willowdale ON	416-494-1666
FR	Electronic Wholesalers	
	Co Ltd Montreal PQ	514-769-8861
FR	Future Electronics Montreal PQ	514-694-7710

EDAL INDUSTRIES INC 6 SHORT BEACH RD EAST HAVEN CT 06512 E PAGANO EMP 200 ENG 5 \$2,500-\$5,000K ADV CP 388

CA	IBS Co Santa Ana	714-751-6633
CA	NES Santa Clara	408-980-1950
CT	Hathaway Lexington	800-225-1293
FL	AEC Hollywood	305-987-1074
IL	Allied Components Northbrook	312-498-6658
IA	Hayes Electronics St Charles	314-946-6677
MA	Hathaway Lexington	800-225-1293
MN	Allied Components Burnsville	612-435-7876
MO	Hayes Electronics St Charles	314-946-6677
NJ	Eastern Industrial W Long Branch	201-544-0600
NY	Net Sales Fairport	716-223-1030
OH	Jim Finnigan & Co Cleveland	216-238-5905
PA	Arnold Assoc Jenkintown	215-887-7870
TX	W Pat Fraile Co Arlington	817-640-9101

EDER INDUSTRIES 2250 W SOUTHBRANCH BLVD OAK CREEK WI 53154 414-761-0400 R NEUMANN EMP 140 ENG 11

EDKO ELECTRONICS INC 1 SHADOW LA GREAT NECK NY 11021 516-482-7358 M COE EMP 4 ENG 1 \$100-\$250K

EDMONT 1300 WALNUT ST COSHOCTON OH 43812 614-622-4311

AL	D Whitney Birmingham	583-0530
CA	J Hurd Antioch	778-1044
CA	R D Stowe Anaheim	998-1175
CO	V Kinsella Denver	757-7917
CT	R Frey Stamford	359-9303
FL	D A Mallardi Tampa	886-5513
GA	J Denney Lilburn	921-7622
IL	P Bobolia Glenwood	757-4963
IN	S York Danville	271-3071
MD	K Whipple Cockeysville	667-8926
MI	B Keenan So Easton	238-7668
MI	P Hanson Union Lake	698-4042
MN	G Forsberg Eden Prairie	934-1976
MO	L Babcock Ellisville	394-4782
NJ	J Giordano Clifton	473-7613
NY	S Zaugg Tonawanda	836-6153
OH	D Zeigler Charlotte	542-5875
NC	M Kimberly Batavia	753-4386
OR	D Younger Beaver Creek	632-4077
PA	M F Gavett Audubon	666-5420
TX	R D Spencer Memphis	388-8851
TX	W Williamson Carrollton	242-2734
UT	D C Bowen Sandy	566-5026
WI	M J True Wauwatosa	453-9333
FR	Edmont Canada Ltd Cowansville PQ	263-0585

EDNALITE CORP 210 N WATER ST PEEKSKILL NY 10566 914-737-4100 C COHEN EMP 150

EDO CORP/WESTERN DIV 2645 S 300 W SALT LAKE CITY UT 84115 801-486-7481 EMP 325 ENG 25 OVER \$10,000K

CA Edo Corp Fullerton 714-871-2150 VA Edo Corp Arlington 703-521-9600

EDROY PRODUCTS CO INC 245 N MIDLAND AV BOX 998 NYACK NY 10960 914-358-6600 M STOLTZ EMP 14 ENG 1 \$500-\$1,000K

DISTRIBUTORS

AZ Jensen Tool 1230 S Priest Dr Tempe PA H Mann Inc Mann Rd Huntingdon Valley

EDSYN INC 15958 ARMINA ST VAN NUYS CA 91406 TWX 65-1469 818-989-2324 J SHERMAN EMP 40 ENG 5 \$2,500-\$5,000K

AL	Mock Elctns Huntsville	205-539-2401
AZ	Jensen Tools & Alloys Tempe	602-968-6241
AR	Carlton Bates Little Rock	501-562-9100
CA	Marshall El Monte	213-886-0141
CA	Com-Kyl Inc Sunnyvale	408-734-9660
CO	Solder Tec Denver	303-922-6214
CT	Harry Elctns New Haven	203-787-5921
DE	Holloway Bros Tools Wilmington	302-322-5441
DC	W S Jenks & Son Washington	202-529-6020
FL	Your Production Cupboard Clearwater	813-447-2581
GA	Marshall Industries Norcross	404-925-1895
HI	Honolulu Elctns Honolulu	808-949-5564
ID	Kimball Elctns Boise	208-342-3559
IL	EMF Co Chicago	312-889-8323

IN	Graham Elctns Supply Indpls	317-634-8202
KS	Carroll Radio & TV Supply Topeka	913-234-6677
LA	Peerless Elctns Louisville	502-637-7674
KY	Ralph's Ind Elect Supp Lafayette	318-234-4507
MD	Capitol Radio Whisirs Rockville	301-881-2270
MA	Contact East Burlington	617-272-5051
MI	RS Elect Livonia	313-525-1155
MN	Ragon Elect St Paul	612-642-2823
MO	Paloma Sales Co KC	816-358-7272
NE	Radio Equip Co Omaha	402-341-7700
NH	EPE Corp Manchester	603-669-9181
NJ	Tool-Tronics Inc Saddlebrook	201-478-2203
NM	Electronic Parts Co Albuquerque	505-293-6161
NY	Tools for Industry Lake Grove	516-585-0027
NY	Rochester Radio Supply Rochester	716-454-7800
NC	Kirkman Elctns Winston-Salem	919-722-9131
ND	WP & RS Mars Co Bismark	701-222-2620
OH	Paterson Supply Cleveland	216-441-3000
OK	Trice Wholesale Elec Okla City	405-524-4411
OR	General Tool & Supply Portland	503-226-3411
PA	Techni-Tool Inc Plymouth Mtg	215-825-4990
SC	Dixie Electronics Columbia	803-779-5332
TN	Bluff City Dist Co Memphis	901-725-9500
TX	Specialized Prods Co Dallas	214-358-4663
UT	Technical Devices Co SLC	801-972-5935
VA	Avec Elect Richmond	804-271-1243
WA	Marshall Industries Tuckwila	206-575-3120
WI	Marsh Electronics Milwaukee	414-475-6000
FR	Len Finkler Ltd Downsview Ont	416-630-9103

EDWARDS HIGH VACUUM (CANADA) LTD 430 S SERVICE RD W OAKVILLE ON L6K2H4 416-845-3437 M MCEWAN EMP 12 ENG 1 \$1,000-\$2,500K

DISTRIBUTORS

WA Penryn Inc Seattle 206-782-8879

EEDO INCORPORATED BOX 659-1601

CA	92702-0659 TWX 910-595-1550	714-835-6000
CA	S HYTER EMP 750 ENG 40 OVER \$10,000K	
AL	Montgomery Mktg Huntsville	205-830-0498
AZ	Thom Luke Sales Scottsdale	602-941-1901
AR	Electra Repts Fort Smith	501-452-7822
CA	Recht Assoc Los Altos	415-964-6321
CA	Cook Enterprises El Monte	213-666-2120
CO	Delltron Co Denver	303-373-0300
CT	Northeast Repts South Windsor	203-644-3728
FL	Engineering Mktg Assoc Winter Park	305-671-6800
GA	Montgomery Mktg Norwood	404-447-6124
IL	John G. Twist Co Elk Grove Vlg	312-593-0200
IN	M/S Sales & Assoc Ft Wayne	219-436-3023
IA	Palatine Engr & Sales Cedar Rapids	319-365-8071
KS	Palatine Engr & Sales Blue Springs	816-229-4007
MD	Electronic Mktg Assoc Rockville	301-881-5300
MA	Northeast Repts Hingham	617-749-8700
MI	Lowell-Wendt Mktg Co Livonia	313-464-2722
MN	Electronic Sales Agency Bloomington	612-884-8291
MO	Palatine Engr & Sales Hazelwood	314-839-0800
NH	Northeast Repts Milford	603-673-1406
NJ	Tecnimat Englewood	201-569-4200
NY	Tech-Mark Inc Endicott	607-748-7473
NC	Montgomery Mktg Cary	919-467-6319
OH	Engineering Mktg Assoc Aurora	216-562-6104
OR	Blair Hirsh Co Beaverton	503-641-1875
PA	Engineering Mktg Assoc Plymouth Mtg	215-828-7400
TX	Electra Repts Houston	713-530-2208
TX	Electra Repts Dallas	214-248-3852
UT	Delltron Co SLC	801-942-4678
WA	Blair-Hirsh Co Lynnwood	206-774-8151
WI	John G. Twist Co Brookfield	414-782-2670
FR	Renmark Elctns Ltd Neapean ON	613-727-0320
FR	Renmark Elctns Ltd Toronto ON	416-494-5445

DISTRIBUTORS

AL	Hall-Mark Elect Huntsville	205-837-8700
AL	Marshall Industries Huntsville	205-881-9235
AZ	Marshall Ind Tempe	602-968-6181
AZ	Harper SID Tempe	602-967-1464
AZ	Hall-Mark Elect Phoenix	602-437-1200
CA	Marshall Ind Canoga Pk	818-999-5001
CA	Harper SID Compton	213-979-5090
CA	Marshall Ind San Diego	619-578-9600
CA	Marshall Ind Milpitas	408-943-4600
CA	Marshall Ind Sunnyvale	408-732-1100
CA	Harper SID Sunnyvale	408-747-0333
CA	Harper SID San Diego	714-560-8545
CA	Time Electronics Sunnyvale	408-734-9888
CA	Hall-Mark Elect Canoga Park	818-716-7300
CA	Hall-Mark Elect San Diego	619-268-1201
CA	Hall-Mark Elect San Jose	408-946-0900
CO	Marshall Ind Denver	303-427-1818
CO	Hall-Mark Elect Englewood	303-790-1662
CT	Sager Elec Supply Wallingford	203-265-4600
CT	Marshall Ind Wallingford	203-269-0100
CT	Marshall Ind Wallingford	203-265-3822
FL	Marshall Ind Orlando	305-841-1878
FL	Hall-Mark Elect Orlando	305-855-4020
FL	Hall-Mark Elect Clearwater	813-576-8691

GA	Hall-Mark Elect Norcross	404-447-8000
GA	Marshall Ind Atlanta	404-923-5750
IL	Marshall Ind Schaumburg	312-490-0155
IL	Hall-Mark Elect Woodale	312-860-3800
IN	Mar Electronics Indpls	317-875-4510
IN	Hall-Mark Elect Indpls	317-872-8875
IN	Marshall Ind Indpls	317-297-0483
KS	Hall-Mark Elect Lenexa	913-888-4747
MD	Hall-Mark Elect Baltimore	301-988-9800
MD	Marshall Ind Galtersburg	301-840-9450
MA	Marshall Ind Burlington	617-272-8200
MA	Sager Elec Supply Hingham	617-749-6700
MA	Hall-Mark Elect Billerica	617-667-0902
MI	LWC Dist Livonia	313-464-7700
MN	Marshall Ind Plymouth	612-559-2211
MN	Hall-Mark Elect Bloomington	612-854-3223
MO	Hall-Mark Elect Earth City	314-291-5350
MO	Olive Electronics St Louis	314-426-5000
NJ	Hall-Mark Elect Cherry Hill	609-424-7300
NJ	Marshall Ind Fairfield	201-822-0320
NM	Int'l Electronics Albuquerque	505-345-8127
NY	Marshall Ind Hauppauge	516-273-2424
NY	Peerless Radio Lynbrook	516-593-2121
NY	Summit Dist Buffalo	716-887-2800
NY	Marshall Ind Endwell	607-798-1611
NY	Marshall Ind 1260 Scottsville Rochester	716-235-7620

NY	Hall-Mark Elect Ronkonkoma	516-737-0600
NC	Hall-Mark Elect Raleigh	919-872-0712
NC	Marshall Ind Raleigh	919-878-9882
OH	Marshall Ind Dayton	513-236-8088
OH	Hall-Mark Elect Worthington	614-888-3313
OH	Hall-Mark Elect Solon	216-349-4632
OH	Marshall Electronics Solon	216-248-1788
OK	Hall-Mark Elect Tulsa	918-665-3200
OR	Almac/Strom Beaverton	503-629-8090
OR	Marshall Ind Beaverton	503-644-5050
PA	Marshall Ind Mt Laurel	215-627-1920
TX	Hall-Mark Elect Dallas	214-341-1147
TX	Marshall Ind Dallas	214-233-5200
TX	Marshall Ind Houston	713-789-6600
TX	Hall-Mark Elect Houston	713-781-6100
TX	Hall-Mark Elect Austin	512-258-8848
TX	Harper SID Richardson	214-235-3177
TX	Int'l Electronics El Paso	515-598-3406
UT	Hall-Mark Elect Murray	801-268-3779
WA	Marshall Ind Bellevue	206-747-9100
WA	Almac/Elctronics Bellevue	206-643-9992
WA	Almac/Elctronics Spokane	509-924-5505
WI	Hall-Mark Elect New Berlin	414-797-7844
FR	RAE Indus Elect Ltd Burnaby BC	604-291-8866
FR	Cardinal Ind Elect Ltd Edmonton AB	403-483-6266

FR	Carsten Elect Ltd Scarborough ON	416-495-9999
FR	Carsten Elect Ltd St Laurent PQ	514-334-8321
FR	Carsten Elect Ltd Ottawa ON	613-729-5138
FR	Cardinal Ind Elect Ltd Calgary AB	403-259-6817
FR	Future Electronics Pte Claire PQ	514-694-7710
FR	Future Electronics Ottawa ON	416-638-4771
FR	Future Electronics Calgary AB	403-235-5325
FR	Future Electronics Vancouver BC	604-438-5545
FR	Future Electronics Winnipeg MB	204-339-0554

EEMCO DIV DATRON SYSTEMS INC 4585 ELECTRONICS PL LOS ANGELES CA 90039 TWX 910-497-2269 818-247-7060 R SCOTT EMP 350 ENG 30 OVER \$10,000K

CA	A S I Valves San Jose	408-263-5717
IL	Jerry Golden Co Chicago	312-792-1991
KY	Hardman Co Cincinnati OH	513-871-9509
MN	Vikeland Sales St Paul	612-645-4647
NE	Cipco/Skarda Omaha	402-422-0430
NY	Trol-Mation Inc Syracuse	515-437-4100
OH	H J Kirby Corp Westlake	216-835-3440
PA	Air Hydraulics Sales Warminster	215-674-8488

EESOF INC 31194 LA BAYA DR WESTLAKE VILLAGE CA 91362 TWX 384809 818-991-7530 D MUTCH

DISTRIBUTORS

AZ	Odyssey I Phoenix	602-246-8846
CA	J L Technical Sales Mt View	415-969-5552
CA	Midwin & Orlson Tarzana	818-996-9093
CO	Odyssey I	303-773-8176
FL	SparTech Assoc Palm Beach	305-727-8045
GA	SparTech Assoc Norcross	404-446-7300
IN	Dytec/Central	317-247-1316
MD	Applied Engrg Consultants	301-792-2211
MA	Callahan & Tremblay Wakefield	617-246-3929
MI	Comtel Inst Co Southfield	313-358-2505
MO	EIR Co Kansas City	816-452-7030
NH	Callahan & Tremblay Merrimack	603-424-5700
NJ	Technical Mktg Assoc Teterboro	201-393-9330
NM	Odyssey I	505-265-6645
NY	Ossmann Inst East Syracuse	315-437-7052
OH	Comtel Inst Co Cleveland	216-442-8080
PA	Comtel Inst Co Pittsburgh	412-922-5720
TX	Vector Sales Co Richardson	214-234-4291
WA	Arva-Hudson Inc Bellevue	206-455-0774
WI	Dytec/Central	414-784-9686

SAGER



We have what it takes for
EEDO

EEV INC 7 WESTCHESTER PLAZA
ELMSFORD NY 10523 TWX 6818096..... 914-592-6050
P FLURIEM EMP 36 ENG 3
CA EEV Inc Westminster..... 714-895-3948
GA EEV Inc Atlanta..... 404-394-9201
IL EEV Inc Chicago..... 312-843-8417
WA EEV Inc Seattle..... 206-363-2200

EF DATA CORP 1233 N STADEM DR
TEMPE AZ 85281..... 602-968-0447
R FITTING EMP 25 ENG 5 \$500-\$1,000K

EFD INC 977 WATERMAN AVE
EAST PROVIDENCE RI 02914
TWX 927615..... 401-434-1680
F MOREAU EMP 115 ENG 3 \$5,000-\$10,000K

DISTRIBUTORS
CA J A Crawford Whittier..... 213-698-0901
CA Gardner Assoc Redwood City..... 415-365-5454
NY Norlco Hampton Falls..... 603-926-6999
NY Assemblyconics Brentwood..... 516-231-4440

EFE LABS INC 420 BABYLON RD
HORSHAM PA 19044..... 215-672-2400
P CLAYTON EMP 65 ENG 4 \$2,500-\$5,000K

EFRATOM DIV BALL CORP 18851
BARDEEN AVE IRVINE CA 92715
TWX 685-635..... 714-752-2891
H BADURA EMP 102 ENG 10 \$5,000-\$10,000K

EG & G ALMOND INSTRUMENTS
1330 E CYPRESS ST COVINA
CA 91724 TWX 910-584-1320..... 818-967-9521
D ADAMS EMP 260 ENG 30 OVER \$10,000K

FL Truex Assoc Orlando..... 305-859-2160
MA Circuit Sales Lexington..... 617-861-0567
NY Sonkin Assoc Yonkers..... 914-968-8282

EG & G BIRTCHER 4505 N ARDEN DR
EL MONT CA 91731 TWX 247345..... 818-442-2572
H SPROUL EMP 150 ENG 5

AL Mar-Tec Huntsville..... 883-5910
AZ Mercury Eng Sales Phoenix..... 244-0123
CA Masco Brea..... 529-0866
CA Novatronix Santa Clara..... 727-9530
CO Connors Inc Bloomfield..... 466-9628
FL HHP Pompano Bch..... 971-5750
IL Heartland Tech Mktg Rolling Meadows..... 577-9222
MD Burgin Kreh Assoc Baltimore..... 265-8500
MA Conti-Younger Assoc Burlington..... 273-1582
MN Hei-Lite Sales Mnpls..... 861-6051
NJ Tritex Sales Haddonfield..... 429-1551
NY Tylnski Assoc Great Neck..... 466-9070
NY I A Hotze Assoc Syracuse..... 479-6641
NC Tingen Tech Sales Raleigh..... 878-4440
OH Jim Finnegan Co 16710 Pearl Rd Cleveland..... 238-5905

OR Eclipse Marketing Beaverton..... 642-1661
TX Elcom Marketing Dallas..... 241-2166
VA Burgin-Kreh Lynchburg..... 239-2626
WA Eclipse Marketing Redmond..... 885-6991

DISTRIBUTORS
CA Prime Electro Prods Manhattan Bch..... 213-379-3642
CA Pyramid Elect Santa Clara..... 408-727-9810
CA Bisco Industries San Jose..... 408-946-8980
CO Jet Elect Supply Aurora..... 303-364-1000
FL Summit Dist Pompano Bch..... 305-973-4141
IL Bisco Industries Franklin Park..... 312-451-1230
MA Rush Industries Winchester..... 717-729-5800
MN Stark Elect Mnpls..... 612-332-1325
NY Car Lac Industrial Bohemia..... 516-567-4200
NY Summit Dist Buffalo..... 716-884-3450
NY Summit Elect Rochester..... 716-334-8110
NY Peerless Radio Lynbrook..... 516-593-2121
TX Industrial Electron Ft Worth..... 817-731-7321
TX Force Elect Farmers Branch..... 214-247-9955
WA Murphy Elect Redmond..... 206-881-1234
FR Rush Elect Mississauga ON..... 416-677-7280

EG & G CINOX 4914 GRAY RD
CINCINNATI OH 45232
TWX 810-461-2749..... 513-542-5555
R STEPHENS EMP 250 ENG 10

EG & G INC ELECTRO-OPTICS DIV
35 CONGRESS ST SALEM
MA 01970 TWX 681-7405..... 617-745-3200
J MURACHVER EMP 500 ENG 50

CA EG & G Inc Tarzana..... 818-344-3696
CA EG & G Sunnyvale..... 408-735-1450
FL EG & G Inc Mt Dora..... 904-383-0758
IL EG & G Inc Arlington Hts..... 312-253-0335
NJ EG & G Inc Princeton..... 609-452-7772

EG & G INC ENVIRONMENTAL EQUIP DIV
151 BEAR HILL RD WALTHAM
MA 02154 TWX 92-3429..... 617-890-3710
V CORTINA EMP 200 ENG 30

EG & G GAMMA SCIENTIFIC INC
3777 RUFFIN RD SAN DIEGO
CA 92123 TWX 697938..... 619-279-8034
R RUFF EMP 70 ENG 10 \$5,000-\$10,000K

AZ EG & G Electro-Optics Tarzana..... 818-344-3696
CA EG & G Electro-Optics Sunnyvale..... 408-735-1450
FL EG & G Electro-Optics Mt Dora..... 904-383-0758
IL EG & G Electro-Optics Arlington Hts..... 312-253-0335
MA EG & G Electro-Optics Salem..... 617-745-3200
NJ EG & G Electro-Optics Princeton..... 609-452-7772
TX Optical Services Co Lucas..... 214-442-2011

DISTRIBUTORS
FR Technical Mktg Assoc Mississauga ON..... 416-826-7752
FR Technical Mktg Assoc Richmond BC..... 604-270-8662
FR Technical Mktg Assoc Ottawa ON..... 613-226-8297

EG & G ORTEC 100 MIDLAND RD
OAK RIDGE TN 37830
TWX 810-572-1078..... 615-482-4411
J POBICKI EMP 340 ENG 60 OVER \$10,000K

CA Research Inst Sales Laguna Hills..... 714-770-6222
CA Rsch Inst Sales Atlanta..... 404-446-1544
IL Rsch Inst Sales Northbrook..... 312-498-5858
MA Rsch Inst Sales Bedford..... 617-275-2100
NJ Rsch Inst Sales Newfoundland..... 201-697-5679
NM Rsch Inst Sales Albuquerque..... 505-821-8295
TN Rsch Inst Sales Oak Ridge..... 615-482-5336

EGG RETICON 345 POTRERO
SUNNYVALE CA 94086
TWX 910-339-9343..... 408-738-4266
J SKURLA EMP 150 ENG 35

EG & G ROTRON COMMERCIAL DIV
NORTH ST SAUGERTIES NY 12477
TWX 551-496..... 914-246-3615

EG & G TORQUE SYSTEMS 36
ARLINGTON ST WATERTOWN
MA 02172 TWX 95-1736..... 617-924-6000
T MORAN EMP 210

EG&G VACTEC 10900 PAGE BLVD
ST LOUIS MO 63132
TWX 910-764-0811..... 314-423-4900
D HARTLEY EMP 300 ENG 30 \$5,000-\$10,000K
ADV PG 317

AZ Interstate Mkt Scottsdale..... 602-244-9050
CA King Way & Assoc Encino..... 818-788-4124
CA Ault Assoc Redwood City..... 415-367-1710
CO Arrowhead Sales Corp Arvada..... 303-422-5556
CT A & M Elctn Reps Guilford..... 203-453-1612
FL EAB Inc Orlando..... 305-898-7444
IL Thos B Hunter Assoc Highland Park..... 312-433-7000
IN Scott Elctns Indpls..... 317-897-9976
MD R W Mitscher Laurel..... 301-499-6090
MA A & M Electronic Reps Needham..... 617-444-8170
MI OEM Tech Sales Southfield..... 313-344-1680
MN Rockmore Sales Corp Eden Prairie..... 612-941-1390
MO Engineering Service Co St Louis..... 314-997-1515
NY BGR Assoc Marilton..... 609-983-1020
NY C W Beach Co Syracuse..... 315-448-9587
NY C W Beach Co Pittsford..... 716-586-3200
OH Scott Elctns Cleveland..... 216-673-5050
OR N R Schultz Beaverton..... 503-643-1644
PA Scott Elctns Pittsburg..... 412-963-6116
TX SW Mktg Assoc Dallas..... 214-341-8631
VA R W Mitscher Midlothian..... 804-744-4630
WA N R Schultz Bellevue..... 206-454-0300
FR R D Assoc Don Mills ON..... 416-444-0959

DISTRIBUTORS
CA Zack Elect Palo Alto..... 415-326-5432
CA King-Way West Encino..... 213-788-4124
CA Allied Elect Santa Clara..... 408-727-1690
CA Zack Elect San Francisco..... 415-626-1444
CA Ault Assoc Redwood City..... 415-367-1710
CO Integrated Elect Denver..... 303-292-6121
IL Newark Elect Chicago..... 312-638-4411
IL Allied Elect Elgin..... 312-697-8200
MA Critterion Danvers..... 617-777-4725
MN Chris Elect Blaine..... 612-757-5415
MO Olive Elect St Louis..... 314-426-4500
TX Allied Elect Ft Worth..... 817-336-5401

EG&G WAKEFIELD ENRG COMPONENTS
DIV 60 AUDUBON RD WAKEFIELD
MA 01880 TWX 710-348-6713..... 617-245-5900
EMP 250 ENG 7
ADV PG 210

AL Over & Over Inc Huntsville..... 205-882-9182
AZ Piper Sales Co Tempe..... 602-949-0048
CA Recht Assoc Los Altos..... 415-964-6321
CA Westrep Box 3550 Anaheim..... 213-404-3881
CA EG & G Wakefield Engr Huntington Beach..... 714-847-8588
CO Piper Sales Co Box 1691 Longmont..... 303-651-2378
CT Circuit Sales Stamford..... 203-322-0240
FL Over & Over Inc Orlando..... 305-857-4057

GA Over & Over Inc Norcross..... 404-449-6205
IL Sumer Inc Rolling Meadows..... 312-991-8500
IA S & O Sales Co Cedar Rapids..... 319-393-1845
MD Bresson Assoc Timonium..... 215-861-0567
MA Circuit Sales Lexington..... 617-574-2330
MI Leubbe Sales Co Livonia..... 313-574-2330
MN G-II Sales Mendota Hts..... 612-454-3068
MO Cen-Tech Inc Raytown..... 816-358-8100
NY ERA Inc 354 Vets Mem Hwy Commack..... 516-543-0510
NY Tri Tech Elctns Fayetteville..... 716-446-2881
NC Over & Over Inc Charlotte..... 704-527-3070
OH Leubbe Sales Co Cincinnati..... 313-871-4211
OK Ammon & Rizos Co Okla City..... 405-942-2552
OR SDP Prods & Sales Portland..... 503-297-8677
PA Bresson Assoc Narbeth..... 215-664-6460
TX Ammon & Rizos Co Dallas..... 214-233-5591
UT Piper Sales Co SLC..... 801-268-8707
VA Bresson Assoc Lynchburg..... 215-664-6460
WA SDP Prods Sales Bellevue..... 206-624-2621
WI Sumer Inc Brookfield..... 414-784-6641
FR Comp Rep Assoc Mayaguez PR..... 809-832-9529
FR Intl Rectifier of Can Markham ON..... 416-475-1897

DISTRIBUTORS
AL Newark Birmingham..... 205-942-4044
AZ Bell Tempe..... 602-966-7800
AZ Newark Tempe..... 602-968-7441
CA Aicom San Jose..... 408-263-0660
CA Bell Sunnyvale..... 408-734-8570
CA Bell San Diego..... 619-268-1277
CA Elcom Santa Clara..... 408-496-0880
CA Elcom Cerritos..... 213-404-2961
CA Newark Foster City..... 415-572-8300
CA Wyle Santa Clara..... 408-727-2500
CA Component Center Fountain Valley..... 312-582-0667
CA Newark San Diego..... 619-481-1251
CO Bell Wheat Ridge..... 303-424-1985
CO Newark Denver..... 303-757-3351
CT Impact Sales Hamden..... 203-281-1331
CT Newark Bloomfield..... 203-243-1731
FL Aicom Casselberry..... 305-831-6630
FL Electronic Equipment Miami..... 305-871-3500
FL Newark Ft Lauderdale..... 305-587-2372
GA Newark Atlanta..... 404-448-1300
GA Specialty Atlanta..... 404-873-2520
IL Bell Chicago..... 312-982-9220
IL GBL Elect Elk Grove Village..... 312-593-9810
IL Newark Chicago..... 312-638-4411
IN Graham Ft Wayne..... 219-423-3422
IN Newark Indianapolis..... 317-298-7070
IA Deeco Inc Cedar Rapids..... 319-365-7551
IA Newark Cedar Rapids..... 319-362-1171
KS Newark Lenexa..... 913-492-6000
KS RSC Wichita..... 316-267-5213
KY Newark Louisville..... 502-423-0280
LA Industrial Elect Supply Shreveport..... 318-222-9459
LA Newark Metairie..... 504-888-5174
LA Capitol Radio Wholesalers Rockville..... 301-881-2270
LA Aicom Woburn..... 617-935-3200
LA Impact Sales Canton..... 617-821-1500
LA RM Grand Rapids..... 616-531-9300
LA Wedemeyer Ann Arbor..... 313-665-8611
LA Gopher St Paul..... 612-483-3322
LA Industrial Components Minneapolis..... 612-831-2666
MO Newark Hazelwood..... 314-731-1204
NE Newark Omaha..... 402-392-1221
NJ Engineered Assemblies Clifton..... 201-340-0600
NJ General Radio Camden..... 609-964-8560
NM Bell Albuquerque..... 505-292-2700
NY Car-Lac Bohemia..... 516-567-4500
NY Nobel Elect Suffern..... 914-357-4500
NY Genesee Radio Buffalo..... 716-873-9661
NY Newark Rochester..... 716-473-6600
NY Summit Buffalo..... 716-884-3450
NC Kirkman Elect Winston Salem..... 919-722-9131
OH Cam-Ohio Cleveland..... 216-461-4700
OH Hughes Peters Cincinnati..... 513-351-2000
OH Hughes Peters Columbus..... 614-294-5351
OH Stotts Friedman Dayton..... 513-298-5555
OK Newark Oklahoma City..... 405-485-0000
OK Radio Inc Tulsa..... 918-587-9123
OR Bell Lake Oswego..... 503-620-1614
OR Newark Portland..... 503-620-1614
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PA Pytronic Montgomeryville..... 215-643-2850
RI Newark Warwick..... 401-738-4010
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TX Newark Houston..... 801-972-6969
UT Bell Salt Lake City..... 801-484-8611
UT Newark Salt Lake City..... 703-522-0880
VA Newark Arlington..... 804-296-4184
VA Virginia Radio Charlottesville..... 804-276-1515
WA Bell Bellevue..... 206-241-1980
WA Zepher Seattle..... 206-241-1980
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WI RM Electronics New Berlin..... 414-784-4420
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ADV PG 210

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CA	C & W Component Sales Granada Hills.....	818-368-4032
CA	Mesa Electronics Inc San Diego.....	619-278-8021
CA	EG & G Huntington Bch.....	714-847-8588
CA	Recht Assoc Los Altos.....	415-964-6321
CO	Deitron Co Denver.....	303-373-0300
CT	Circuit Sales Co Stamford.....	203-322-0240
FL	Over & Over Inc Tampa.....	813-626-9100
GA	Over & Over Inc Norcross.....	404-449-6205
IL	Sumner Inc Rolling Meadows.....	312-991-8500
IN	Luebbe Sales Co Indpls.....	317-845-7389
IA	C H Horn & Assoc Cedar Rapids.....	319-393-8703
MD	Bresson Assoc Timonium.....	215-664-6460
MA	Circuit Sales Co Lexington.....	617-861-0567
MI	Luebbe Sales Co Livonia.....	313-477-3131
MN	G-Il Sales Mendota Hts.....	612-454-3086
MO	John G Macke Co St Louis.....	314-432-2830
NY	ERA Inc Commack.....	516-543-0510
NY	Tri Tech Elctns Rochester.....	716-385-8500
NY	Tri Tech Elctns Fishkill.....	914-897-5611
NC	Over & Over Inc Charlotte.....	704-331-9010
OH	Luebbe Sales Co Cincinnati.....	513-891-5770
OH	Luebbe Sales Co Cleveland.....	216-333-0425
OK	Ammon & Rizzo Co Tulsa.....	918-663-8788
OR	Huntley Assoc Aloha.....	503-649-5388
PA	Bresson Assoc Narbeth.....	215-664-6460
PA	Luebbe Sales Co Pittsburgh.....	412-364-0490
TX	Ammon & Rizzo Co Richardson.....	214-644-5591
TX	Ammon & Rizzo Co Houston.....	713-781-8240
UT	Deitron Co SLC.....	800-692-2069
VA	Bresson Assoc Lynchburg.....	215-664-6460
WA	Huntley Assoc Everett.....	206-353-1833
WI	Sumner Inc Brookfield.....	414-784-6641
FR	Comp Rep Assoc Casques.....	809-746-6154
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CA	Wyle Santa Clara.....	408-727-2500
CA	Component Center Fountain Valley.....	714-979-0433
CA	Elcom Cerritos.....	213-404-2961
CA	Newark Inglewood.....	213-678-0441
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CO	Newark Denver.....	303-757-3351
CT	Newark Bloomfield.....	203-243-1731
CT	Carlac S Windsor.....	203-282-0631
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FL	Bell Graham Largo.....	813-541-4434
GA	Specialty Atlanta.....	404-873-2521
IL	GBL Elect Elk Grove Vlg.....	312-693-3220
IN	Bell Ft Wayne.....	219-423-3422
IN	Newark Indpls.....	317-298-7070
IN	Altex Carmel.....	317-848-1323
IA	Deeco Inc Cedar Rapids.....	319-365-7551
KS	Newark Lenexa.....	913-492-6000
KS	RSC Wichita.....	316-267-5213
KY	Newark Louisville.....	502-423-0280
LA	Industrial Elect Sply Shreveport.....	318-222-9459
MD	Capitol Radio Whislers Rockville.....	301-881-2270
MD	General Radio Columbia.....	301-997-6337
MA	Impact Sales Canton.....	617-821-1500
MA	Newark Woburn.....	617-935-8350
MA	Jaco Woburn.....	617-933-7760
MI	RS Elect Livonia.....	313-525-1155
MI	Wedemeyer Ann Arbor.....	313-665-8611
MN	Gophers St Paul.....	612-483-3322
MN	Newark Mpls.....	612-331-6350
MO	Newark Hazelwood.....	314-731-1204
NE	Newark Omaha.....	402-392-1221
NJ	Engineered Assemblies Clifton.....	201-340-0600
NJ	General Radio Camden.....	609-964-8560
NM	Bell Albuquerque.....	505-292-2700
NY	Car-Lac Bohemia.....	516-567-4200
NY	Nobel Elect Suffern.....	914-357-4500
NY	Genesee Radio Buffalo.....	716-873-9661
NC	Summit Rochester.....	716-334-8110
NC	Kirkham Elect Winston-Salem.....	919-722-9131
OH	Rem Elect Warren.....	216-373-1300
OH	Cam Cleveland.....	513-351-2000
OK	Stotts Friedman Dayton.....	513-298-5555
OK	Newark Oklahoma City.....	405-495-5000
OR	Kadio Inc Tulsa.....	918-587-9123
OR	Component Resources Beaverton.....	503-641-8488
PA	Shelley-Ragon Wilsonville.....	503-682-2929
PA	Cam-Rip Pittsburgh.....	412-782-3770
PA	Newark Allentown.....	215-434-7171
RI	Newark Warwick.....	401-738-4010
TN	Bell Nashville.....	615-242-2682
TX	Altair Houston.....	713-462-3029
TX	Newark Dallas.....	214-494-5911
TX	Jaco Richardson.....	214-235-9575
TX	Wyle Austin.....	512-834-9957
UT	Newark SLC.....	801-484-8611
VA	Virginia Radio Charlottesville.....	804-296-4184
VA	Shelley-Ragon Seattle.....	206-241-1980
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B RYAN EMP 75 ENG 8 \$5,000-\$10,000
CA EG & G Wakefield Systems Riverside.....714-686-0200

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W BRIGGS EMP 70 ENG 8 \$5,000-\$10,000	
AL Beacon Elect Assoc Huntsville.....	205-881-5031
AZ Scientific Devices Phoenix.....	602-957-0401

AR	Beacon Elect Assoc Little Rock.....	501-224-5449
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CA	Scientific Devices San Jose.....	408-554-0455
CO	Scientific Devices Broomfield.....	303-469-5145
FL	Beacon Elect Assoc Maitland.....	305-647-3498
GA	Beacon Elect Assoc Atlanta.....	404-256-9640
IL	Torkelson Assoc Deerfield.....	312-945-8700
IN	Torkelson Assoc Indpls.....	317-244-7867
IA	Torkelson Assoc Cedar Rapids.....	319-373-0200
KS	Ramsey Assoc Lenexa.....	913-541-1007
MD	Electronic Marketing Rockville.....	301-881-5003
MA	McBar Assoc Waltham.....	617-890-0233
MN	Torkelson Assoc Mpls.....	612-835-2414
MO	Ramsey Assoc St Louis.....	314-878-5042
NJ	SDM Reps Lodi.....	201-368-0123
NM	Scientific Devices Albuquerque.....	505-883-3668
NY	SDM Reps Rochester.....	716-247-8770
NC	Beacon Elect Assoc Raleigh.....	919-787-0330
OK	Beacon Elect Assoc Tulsa.....	918-252-5181
PA	Electronic Marketing Plymouth Mtg.....	215-828-7400
TX	Beacon Elect Assoc Dallas.....	214-437-1505
UT	Scientific Devices West Valley City.....	801-966-0105
WA	The Western Rep Marysville.....	206-653-6031
WI	Torkelson Assoc Waukesha.....	414-784-7736

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EIGEN/OTVISION BOX 848	
NEVADA CITY CA 95959	
TXW 298788.....	916-272-3461
F HEDGES EMP 50 ENG 15 \$2,500-\$5,000K	

E I INSTRUMENTS INC 10	
LOVETON CIR SPARKS MD 21152.....	301-771-4800
J HOWARD EMP 375 ENG 5 OVER \$10,000K	
CA EIL Instr Inc LA.....	213-685-7020
CA EIL Instr Inc Santa Clara.....	408-727-0396
CO EIL Instr Inc Denver.....	303-534-4160
CT EIL Instr Inc Middletown.....	203-346-6646
FL EIL Instr Inc Palm Bay.....	305-725-8300
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CA 94070 TWX 910-376-4893.....	415-592-1221
G BADGER EMP 1800 ENG 300	
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MADISON AVE MANKATO MN 56001.....	507-345-5786
P EIMERS EMP 11 ENG 3 \$500-\$1,000K	
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MN Holmgren Assoc Spring Lake Pk.....	612-786-7641
NH Bell Controls Nashua.....	603-882-6984
TX Richmar Elect Plano.....	214-867-8224
WI Richmar Elect Butler.....	414-781-1730

EIP MICROWAVE INC 2731	
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TXW 910-338-0155.....	408-946-5700
R BUSH EMP 200 ENG 25 OVER \$10,000K	
MD EIP Fredrick.....	301-662-8181
MO EIP Creve Coeur.....	314-993-6851

EIS WIRE & CABLE 775 NEW	
LUDLOW RD SOUTH HADLEY	
MA 01075 TWX 710-351-6636.....	413-536-0152
D HORTON EMP 100 ENG 4	
AL R O Whitesell & Assoc Huntsville.....	205-883-5110
AZ Halbar Assoc Fountain Hills.....	602-837-2464
CA Bart Budge Assoc Mt View.....	415-961-0940
CA Halbar Assoc Glendale.....	818-246-8263
CO Straube Assoc Westminster.....	303-426-0890
CT Wirex Assoc Yaleville.....	203-284-8281
IL John G Twist Co Elk Grove.....	312-593-0200
IN R O Whitesell & Assoc Indpls.....	317-359-9283
IA C H Horn & Assoc Cedar Rapids.....	319-393-8703
KS DLE Elctns Wichita.....	316-744-1229
KY R O Whitesell & Assoc Louisville.....	502-426-7696
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MI R O Whitesell & Assoc Southfield.....	313-559-5454
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H MENGEL	

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R HOLZNER EMP 55 ENG 10 \$1,000-\$2,500K	

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TXW 910-997-0649.....	408-945-1323
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AL DTM Inc Madison.....	205-895-9211
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CA Custom Tech Sales Milpitas.....	408-263-3666
CA Bestronics Inc Culver City.....	213-870-9190
CO Waugaman Assoc Wheat Ridge.....	303-423-1023
CT Advanced Comp Sales Meriden.....	203-238-6890
FL Lawrence Assoc Boca Raton.....	305-368-7370
GA DTM Inc Norcross.....	404-447-6161
IL Solon Assoc Downers Grove.....	312-963-7070
IN Shamrock Elect Sales Carmel.....	317-848-5261
IA Gassner & Clark Hiawatha.....	319-393-5766
MD Sterner Assoc Inc Baltimore.....	301-944-8266
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MN High Technology Sales Assoc Eden Prairie.....	612-944-7271
MO R R Burton & Assoc Grandview.....	816-763-5388
NJ North East Components Glen Rock.....	201-447-0600
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NY Ossmann Comp Sales Rochester.....	716-424-4466
OH Electronic Salesmasters Beachwood.....	216-831-9555
OR Micro Sales Aloha.....	503-642-1811
TX O M Assoc Richardson.....	214-690-6740
UT Waugaman Assoc SLC.....	801-261-0800
WA Micro Sales Inc Bellevue.....	206-451-0566

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CO Wyle Elec Mktg Grp Denver.....	303-457-9953
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FL Zeus Components Oviedo.....	305-365-3000
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MD Zeus Components Columbia.....	301-997-1111
MA Gerber Electronics Norwood.....	617-769-6000
MA Zeus Components Lexington.....	617-863-8800
MI Calder Elect Grand Rapids.....	616-698-7400
NJ Nu Horizons Fairfield.....	201-882-8300
NY Nu Horizons Electronics N Amityville.....	516-222-6000
NY Intercept Electronics Patterson.....	914-878-3353
NC Hammond Electronics Greensboro.....	919-275-6333
OR Wyle Elec Mktg Grp Portland.....	503-640-6000
SC Hammond Electronics Greenville.....	803-233-4121
TX Wyle Elec Mktg Grp Austin.....	512-834-9953
TX Wyle Elec Mktg Grp Dallas.....	214-235-9953
TX Zeus Components Dallas.....	214-783-7010
UT Wyle Elec Mktg Grp Salt Lake City.....	801-974-9953
WA Wyle Elec Mktg Grp Seattle.....	206-453-8300

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IND INC 2330 VAUXHALL RD	
UNION NJ 07083 TWX 310-219317.....	201-686-6000
EMP 500 ENG 20 OVER \$10,000K	
IL ESNA Chicago.....	312-777-2921
WA ESNA Seattle.....	206-246-2151
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MENLO PARK CA 94025.....	415-327-8600
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TXW 510-691-3117.....	714-476-0666
K EAST EMP 400 ENG 26 OVER \$10,000K	
CA Elco Corp Cupertino.....	408-996-0182
CA Elco Corp Santa Ana.....	714-558-8755
CO TMA Parker.....	303-841-3435
FL Donato & Assoc Orlando.....	305-352-0727
ID Huntley Assoc Everett.....	206-353-1833
IL KMA Sales Inc Rolling Meadows.....	312-398-5300
IN Schank Electronics Indpls.....	317-842-6234
MA Elco Corp Woburn.....	617-935-6810
MI Millmore Sales Novi.....	313-349-0266
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WA Huntley Assoc Everett.....	206-353-1833
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CA	Powell Elect San Jose.....	408-943-9020
CO	Newark Elect Denver.....	303-757-3351
CO	Time Electronics Englewood.....	303-850-7701
CT	Connector Co Hamden.....	203-288-0044
CT	J V Elect East Haven.....	203-649-2321
CT	Time Electronics Cheshire.....	203-271-1320
CT	Milgray Electronics Orange.....	203-795-0711
FL	Powell Elect Ft Lauderdale.....	305-972-4300
FL	Milgray Elect Winter Pk.....	305-647-5747
FL	Time Electronics Ft Lauderdale.....	305-974-4800
GA	Milgray Elect Atlanta.....	404-393-9666

IL	Electronic Expeditors Chicago	312-236-1088
IN	Graham Elect Indpls	317-634-8202
KS	Tennant Elect Edwardsville	913-441-1801
KS	Milgray Electronics Overland Park	913-236-8800
MD	Time Electronics Columbia	301-964-3090
MD	Milgray Electronics Rockville	301-468-6400
MA	Milgray Burlington	617-272-6800
MA	Powell Elect Westborough	617-366-6100
MA	Time Electronics Woburn	617-935-8080
MN	Ragon Elect St Paul	612-642-2828
MO	Lectronic St Charles	314-946-6424
MO	Time Electronics St Louis	314-391-6444
NJ	Milgray Marlton	609-983-5010
NY	Tennant Elect Woodbury	516-364-9070
NY	Milgray Elect Farmingdale	516-420-9800
NY	Summit Dist Buffalo	716-884-3450
NC	Hammond Elect Greensboro	919-275-6391
OH	Milgray Electronics Cleveland	216-447-1520
OH	Time Electronics Portland	503-684-1780
PA	Powell Elect Philadelphia	215-365-1900
PA	Time Electronics Broomall	215-359-1200
TX	Newark Elect Garland	214-494-5911
TX	Newark Elect Houston	713-782-4800
TX	Kent Elect Houston	713-782-4800
TX	Time Electronics Dallas	214-355-0566
VA	Almac Electronics Bellevue	206-643-9992
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WI	Electronic Expeditors Milwaukee	414-228-8100
WI	Saynor Elect Ltd Don Mills ON	416-445-2340
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	ROCKFORD IL 61125	
	TXW 910-631-3420	815-397-5151
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DE	D L Lilly Co Inc Wilmington	302-328-6675
CA	C Melander Cocoa Beach	305-783-0262
CA	R Keas Kennesaw	404-928-8717
CA	B Ahlberg Belvidere	815-547-6197
CA	D Homan Carmel	317-844-9002
CA	T Oswald Hiawatha	319-395-7545
CA	R Glass Georgetown	502-863-0599
CA	B McCormick New Bedford	617-995-0151
CA	Eico Industries Bloomfield Hills	313-644-0033
CA	R Rutter St Louis	314-394-1993
CA	M Gilsenan Park Ridge	201-573-0341
CA	D Shattuck Naples	716-374-2529
CA	M Kerr Co Davidson	704-892-4562
CA	C L K & Assoc Willoughby	216-951-1840
CA	M Farmer Greenville	803-271-0033
CA	J Koch Columbia	615-381-7985
CA	D Duly Arlington	817-261-9178
CA	J Powell Seattle	206-762-8832
CA	R Crouch Onalaska	608-783-6207
CA	COM INDUSTRIES INC 10268	
	BACH BLVD ST LOUIS MO 63132	314-429-3100
	TNOEL EMP 20 ENG 6 \$500-\$1,000K	
	Magna-Code Inc Anaheim	714-821-7500
	Plasco Inc Hialeah	305-625-4222
	Butler Assoc Newton Highlands	617-965-1080
CA	COM SYSTEMS INC 932 CLINT	
	MOORE RD BOCA RATON FL 33431	305-994-1774
	L POLLACHEK EMP 5 ENG 2 \$100-\$250K	
	Clark Imp Exp Co Mattapoisett	617-758-6448
CA	DEC CORP 16700 13 AV W BOX 100	
	LYNNWOOD WA 98046	
	TXW 910-449-2855	206-743-1313
	R SEMLOW EMP 1145 ENG 150 OVER \$10,000K	
	O Miller Assoc 5919 W Third L A	910-321-4028
	Waldman Assoc Palo Alto	415-961-4100
	Avtron Int'l/Lear Siegler Miami	305-592-0505
	Astrotec Box 2476 New Orleans	504-581-2099
	R L Diamond Assoc Bayside	710-582-2614
	W F Nash Springfield	513-399-5917
	E Lesniewski Midwest City	405-732-2474
	D Larkin Arlington	703-920-1300
	IMI Corp Bellevue	206-643-4220
CA	LDRE CORPORATION INC 1500	
	JEFFERSON RD ROCHESTER	
	NY 14623 TXW 510 253-4347	716-427-7280
	H ERDLE EMP 225 ENG 15 OVER \$10,000K	
	ADV PGS 48, 62	
CA	Electronic Mktg Assoc Huntsville	205-536-3044
CA	WJM Sales Tucson	602-888-4847
CA	WJM Sales Co Phoenix	602-954-3081
CA	WJM Sales Co Albuquerque	505-898-5917
CA	Eldre West Beverly Hills	213-271-4485
CA	Eldre Components Palo Alto	415-325-0838
CA	Spectrum Sales Denver	303-480-9991
CA	Electronic Mktg Assoc Atlanta	404-448-1215
CA	Eldre Mid-West Oak Park	312-383-1414
CA	Eldre Mid-West Oak Park IL	312-383-1414
CA	Arbotech Assoc Towson	301-825-0775
CA	Harman Assoc Brookline	617-232-6687
CA	Harman Assoc Lee	413-243 1158
CA	Cadon Tech Sales St Louis	314-645-8670
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CA	Electronic Mktg Assoc Greenville	803-233-4637
CA	Spectrum Ogden	801-972-8552
CA	Electronic Mktg Group Redmond	206-882-0962
CA	Pipe-Thompson Ltd Islington ON	416-236-2355
CA	RPS Electronics Montreal PQ	514-341-3663
CA	Sudquest Import Sales Corp	
CA	Santurce PR	809-726-3137
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FR	Rosenfeld-Massafi Trading	
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CA	ELECPAC DIV WILBRECHT ELECTRONICS	
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	IL 60013 TXW 910-563-3679	312-639-2307
	B FRIESTEDT EMP 60 ENG 3 \$2,500-\$5,000K	
AZ	Chas T Fink Assoc Phoenix	602-992-9884
CA	Pass Assoc/RDP Sunnyvale	408-735-9040
CA	Electronic Technology Assoc	
	Orange	714-998-9241
FL	Lobo Mktg New Port Richey	813-848-8578
IL	Trend-Tronics Woodridge	312-985-0626
IN	CS Elctns Sales Frankfort	317-659-1874
MD	Atlantic Tech Sales Churchville	301-879-2236
MA	A & M Electronics Needham	617-444-8170
MO	O-C-B Sales Lee's Summit	913-341-4138
NJ	Cambridge Allen & Assoc	
	Berkeley Hts	201-464-0203
NY	Lamb Components Rochester	716-323-1250
OH	Imtech Akron	216-239-2202
PA	Paragon Sales Phila	215-563-7060
TX	J Harper Signal Mtn	615-886-4600
TN	Art Brawner & Assoc Dallas	214-824-4013
WA	Comtec Bellevue	206-453-1188
CA	ELEC SPEC CORP 14511 NE 13 AVE	
	VANCOUVER WA 98665	
	TXW 910-444-0005	206-574-5000
	N FULLER EMP 125 ENG 6 \$5,000-\$10,000K	
AL	R & G Electronics Huntsville	205-882-0208
CA	Gabriel Assoc Anaheim	714-666-0660
CA	Rupert Sales & Engr San Jose	408-998-8717
CA	Tel America Inc LA	213-641-7042
FL	Jack Krutek & Assoc Deerfield	
	Bch	305-427-4202
IL	Engineering Prods Assoc	
	Schaumburg	312-882-7640
KS	Baka Corp Wichita	316-682-8411
MA	EnCoTronics Chelmsford	617-256-4207
MN	The Kits Hopkins	612-933-1888
NY	Livera-Polk Assoc Glen Head	516-759-9300
OH	Components Inc Cleveland	216-243-9200
PA	Eastern Components West	
	Conshohocken	215-825-8610
TX	Barry Sales Richardson	214-234-0255
CA	ELECTRAC INC 1614 ORANGETHORPE	
	WAY ANAHEIM CA 92801	
	TXW 692433	714-879-6021
	FEGGER EMP 35 ENG 15 \$1,000-\$2,500K	
CA	ELECTRICAL INDUSTRIES DIV	
	PHILIPS ELCTNS INC 691	
	CENTRAL AVE MURRAY HILL	
	NJ 07974 TXW 701-984-7979	201-464-3200
	D WILSON EMP 300	
NJ	RLF Assoc Mt Freedom	201-895-8952
CA	ELECTRICAL INSTRUMENT SERVICE INC	
	25 DODD ST MT VERNON	
	NY 10550	914-699-9717
	G FRANK EMP 35 ENG 2 \$500-\$1,000K	
AZ	Williams Assoc Scottsdale	602-947-4297
CA	Williams Assoc Commerce City	303-289-5647
CO	Saffro & Assoc Lincolnwood	312-677-9720
KS	Comtel-Midwest Shawnee Mission	913-722-1030
MD	Whitcomb Assoc Baltimore	301-889-1245
MA	Zieco Inc Lexington	617-861-8300
MI	Comtel Instr Southfield	313-358-2505
MN	Hel-Lite Sales Mpls	612-861-6051
MO	Comtel-Midwest St Louis	314-991-5363
NH	Williams Assoc Albany	505-255-1638
OH	Comtel Instr Cleveland	216-442-8080
OH	Comtel Instr Dayton	513-298-7573
OH	Comtel Instr Hilliard	614-876-8305
OK	Data Mktg Assoc Tulsa	918-299-4818
PA	Comtel Instr Pittsburgh	412-922-5720
TX	Data Mktg Assoc Austin	512-443-7722
TX	Data Mktg Assoc Dallas	214-661-0300
TX	Data Mktg Assoc Houston	713-780-2511
TX	Data Mktg Assoc San Antonio	512-342-3031
UT	Williams Assoc SLC	801-532-7701
WI	Saffro & Assoc Lake Mills	414-648-2605
FR	Mesurina Ltee Beaconsfield PQ	514-697-6581
CA	ELECTRICAL INSULATION CO	
	DIV WORKMAN ELCTN PRODS INC	
	PACKING HOUSE RD BOX 3919	
	SARASOTA FL 33578	813-371-2355
	A DELACCIO EMP 65 ENG 3 \$1,000-\$2,500K	
CA	ELECTRICAL PRODUCTS SALES CORP	
	120 LEUNING ST BOX 1805	
	SOUTH HACKENSACK NJ 07606	201-488-9000
	ADV PGS 197, 462	
CA	ELECTRICAL REFRACTORIES CO	
	600 E CLARK ST EAST PALESTINE	
	OH 44413	216-426-9433
CA	S MCCORMICK EMP 90 ENG 3	
CA	E A Wilcox Co Los Angeles	213-723-6436
CA	E A Wilcox Co S San Francisco	415-871-5350
IL	T Walsh Dundee	312-551-1300
MI	Warren L Peil Inc Farmington Hills	313-553-3775
MO	Robert Uthoff Co Fenton	314-343-4059
NJ	W Cohn Bloomfield	201-748-0721
OH	Alexander Ind Sales Chagrin Falls	216-247-4133
WA	E A Wilcox Co Seattle	206-243-5450
CA	ELECTRICAL STANDARDS DIV ESRS INC	
	7337 GREENBUSH NORTH	
	HOLLYWOOD CA 91605	213-765-4224
	R STROMQUIST EMP 7 ENG 1 \$100-\$250K	

ELECTRICAL WINDINGS INC		
2015 N KOLMAR AVE CHICAGO		
IL	60639	312-235-3360
V DALKE EMP 200 ENG 5 \$5,000-\$10,000K		
AL	BCL Inc Huntsville	205-539-4411
CA	West Elctn Sales Co Garden Grove	714-898-0120
CO	Frontier Repts Englewood	801-546-4029
CT	Scientific Components Cheshire	203-272-2963
IL	Richmar Elctns Corp Downers Grove	312-968-0118
IN	Richmar Elctns Corp Indpls	317-846-6383
KS	Advance Tech Sales Olathe	913-782-8702
MO	Advance Tech Sales St Louis	314-878-2921
NJ	R E Breuer Co Rahway	201-388-5045
NC	Crossroads Elect Assoc Raleigh	919-859-1033
OR	SPS Electronics Portland	503-297-6919
PA	Jack McCoy Inc Downingtown	215-363-0350
TX	Richmar Electronics Plano	214-867-8224
WI	Richmar Elctns Corp Butler	414-781-1730
ELECTRIC INDICATOR CO INC		
272 MAIN AVE NORWALK		
CT	06851 TXW 96-5945	203-847-5861
F DRAKE EMP 100 ENG 5 \$2,500-\$5,000K		
AZ	Jones/Sudders Inc Chandler	602-820-3751
CA	Rock Assoc Buena Park	714-521-6980
CO	High Plains Mktg Englewood	303-792-2020
FL	HGL Assoc Sarasota	813-923-2484
NY	Jones/Sudders Inc Fulton	315-598-3838
NC	R W Chapman & Co Charlotte	704-525-2421
OH	K F Nauerz Co Chagrin Falls	216-338-8450
PA	Jadelectronic Assoc	
	Birchrunville	215-296-3800
TX	Jim Hughes Co Lewisville	214-221-1536
ELECTRIC SWITCHES INC 2478		
FLETCHER DR LOS ANGELES		
CA	90039 TXW 910-321-2971	213-660-1310
L LIM EMP 43 ENG 3		
ADV PGS 434,435		
CA	Electric Switches	800-252-4640
CA	Electric Switches	800-421-8855
ELECTRIC TACHOMETER CORP		
6749 UPLAND ST PHILADELPHIA		
PA	19142 TXW 831-475	215-726-7723
F PORTER EMP 54 ENG 2 \$1,000-\$2,500K		
AL	Vesco Box 1369 Huntsville	881-1494
CA	B & R Inst Co Berkeley	526-8286
CA	Bixon Assoc Torrance	534-3686
FL	Vesco Orlando	859-8173
HI	Berkley Eng & Equip Co Honolulu	538-1921
IL	Johnson Eng & Sales Co Hinsdale	325-2272
IN	Johnson Eng & Sales Chesterton	926-3076
MA	W R Hatfield Assoc Lexington	861-0201
MI	Service Inst Sales Pontiac	373-8700
NJ	R B McNally Piscataway	981-0241
NY	Ideale Elctns Valley Stream	825-8955
NY	Holter Assoc Pittsford	381-7988
NC	Associated Agents Greensboro	292-6508
OH	Kammerer Sales Co Cincinnati	271-0131
TN	Engineered Instr Memphis	743-3402
TX	Jordan Equipment Co Houston	GY 8-6212
FR	Lasanne Svcs Ltd Unionville ON	416-624-6080
FR	Instr Svc Labs Ltd Edmonton AB	403-463-7488
FR	Instr Svc Labs Ltd Richmond BC	604-278-4511
ELECTRO-ALARM SAFETY DEVICES		
745 N PLEASANT FRESNO		
CA	93728	209-264-6894
I CHAMBER EMP 50 ENG 3 UP TO \$100K		
ELECTROCHEM INDUSTRIES INC		
10000 WEHRL DR CLARENCE		
NY	14031 TXW 91-386	716-759-2828
R ALTERI EMP 70 ENG 10 \$2,500-\$5,000K		
AZ	SMS Associates Scottsdale	602-998-0831
CA	Nova-Tronix Santa Clara	408-272-9530
CA	ElSCO Electronics Garden Grove	714-891-4621
CA	ElSCO Electronics San Diego	619-292-1771
CO	Omega Ltd Englewood	303-762-1921
FL	R W Mitscher Co Altamonte Springs	305-788-6844
FL	R W Mitscher Co Boca Raton	305-368-3841
FL	R W Mitscher Co Clearwater	813-539-1072
IL	Metcom Assoc Corp Park Ridge	312-696-1490
IN	STB & Assoc Indpls	317-844-9227
MA	Del Tech Sales Waltham	617-894-4550
NJ	Champion Elect Sales Medford	609-983-0932
NJ	Cambridge Allen & Assoc	
	Berkeley Hts	201-464-0203
NY	R W Mitscher Co Clarence	716-759-2350
NC	JWL Assoc Pineville	704-541-5750
OH	Electronic Salesmasters	
	Beachwood	216-831-9555
TX	Erickson Sales Dallas	214-739-5833
UT	Omega Ltd SLC	801-277-8061
FR	Blakewood Elctns W Vancouver BC	604-926-8000
FR	Designtronics Downsview ON	416-747-1171
DISTRIBUTORS		
AZ	Lyntronics Glendale	602-931-5981
CA	Tauber Electronics San Diego	619-274-7242
MA	Adcour Inc Sharon	617-784-8123
WA	Priebe Elect Kirkland	206-821-4695
FR	L A Varah Ltd Calgary AB	403-255-9550
FR	L A Varah Ltd Edmonton AB	403-461-2222
FR	L A Varah Ltd Vancouver BC	604-873-3211
FR	L A Varah Ltd Winnipeg MB	204-655-7372
FR	L A Varah Ltd Oakville ON	416-841-8484
ELECTROCHEMICA CORP 20 KELLY CT		
MENLO PARK CA 94025		
M LEMASTERS EMP 15 ENG 5 \$250-\$500K		
ELECTRO CORDS DIV 11555		
HARTER DR MIDDLEBURY IN 46540		
C MOORE EMP 150 ENG 1 \$5,000-\$10,000K		

Franchised Distribution With In-Depth Inventories

ELEC-TROL

Reed & Solid State Relays



KIN-TRONICS INC.

7 Odell Plaza, Yonkers, NY 10701
(914) 968-7736 • (800) 431-1658



FL	Brandel-Stephens & Co Deerfield Beach	305-427-8558
MN	Bill Deming & Assoc Mnpls	612-888-5000
NC	Geo Whitfield Co Snowhill	919-747-8442
TX	Mil-Rep Assoc Richardson	214-644-6731

ELECTRO CORP	1845 57 ST SARASOTA FL 33580 TWX 52683	813-355-8411
	G GEE EMP 200 ENG 8 \$5,000-\$10,000K	
CA	Electro Corp Laguna Hills	714-859-7316
GA	Electro Corp Decatur	404-296-2200
IL	Electro Corp Addison	312-543-5288
IN	Electro Corp Carmel	317-843-9566
MA	Coakley Boyd & Abbott Needham Hts	617-444-5470
MI	W R Hummon & Assoc Farmington Hills	313-474-0661
NY	Electro Corp Great Neck	516-466-3757
OH	Electro Corp Dayton	513-890-8247
TX	Electro Corp Dallas	214-241-1193
FR	Atlas Elect Ltd Toronto ON	416-789-7761
FR	Atlas Elect Ltd Montreal PQ	514-337-5260

DISTRIBUTORS

AZ	Wisco Phoenix	602-243-4361
AR	Electra Inc El Dorado	501-862-4901
CA	Master Distb LA	213-452-1229
CA	Miligan-Spika Oakland	415-562-6667
CA	Selco Products Buena Pk	213-921-0681
CO	E & M Sales Englewood	303-761-8202
CT	Machine Drives & Controls Norwalk	203-846-2007
FL	A-A Elec Lakeland	813-665-6941
GA	A-A Elec Norcross	404-449-8670
IL	Electro-Kinetics Wood Dale	312-595-6700
IL	Klaus Radio & Elec Peoria	309-691-4840
IL	Data Elect Chicago	312-283-0300
IN	Electro-Prod Indpls	317-298-8255
IN	Ken Schneider & Assoc New Haven	219-493-7387
KY	Air Hydro Power Lexington	606-252-3564
LA	Currier & Roser New Orleans	504-734-1147
MD	B R Smith Balt	301-945-1000
MD	Fluid Power Inc Balt	301-646-1545
MA	Electro-Mech Dist Wellesley Hills	617-235-1565
MI	Motion Control Corp Farmington Hills	313-478-1640
MI	Nall Assoc Southfield	313-569-7701
MN	J E Braas Eden Prairie	612-937-8902
MO	Industrial Svc Labs St Louis	314-535-5760
NJ	Wolock & Lott Kenilworth	201-241-4333
NJ	Mektron Inc Saddle Brook	201-666-6884
NJ	A & Electric East Rutherford	201-777-5477
NM	E & M Sales Albuquerque	505-583-8955
NY	Mektron Inc Hawthorne	914-747-0100
NY	Ossmann Inst E Syracuse	315-437-6666
NY	Babco Inc Masspeth	212-446-5120
NC	Systems Service Charlotte	704-377-3407
NC	Power Drives Charlotte	704-568-7480
OH	Fred R Sharp Co Cleveland	216-464-3820
OH	Adcon Engrg Co Cleveland	216-238-3915
OH	C & E Sales Dayton	513-434-8830
OR	Tekelectric Control Portland	503-246-5451
PA	Fluid Power Blue Bell	215-643-0350
PA	Process Engrg Co Pittsburgh	412-561-5050
PA	C A Briggs Co Glenside	215-885-2244
TN	Automation Services Memphis	901-795-8696
TX	Don Shuhart Co Dallas	214-349-6060
TX	Whitson & Co Plano	214-423-5255
TX	Quality Components Sugarland	713-491-2255
TX	Measurement Sys & Sales Dallas	214-243-5781
UT	E & M Sales SLC	801-923-6149
VA	Carotek, Inc Richmond	804-323-0312
VA	Century Control Sys Inc Roanoke	703-992-5100
WA	Instrumentors Supply Bellevue	206-455-9964
WI	Automation Engrg Cedarburg	414-377-7500

ELECTRO-CRAFT CORP	1600 S SECOND ST HOPKINS MN 55343	
	TXW 910-576-3132	612-931-2700
	E LONARDO EMP 503 ENG 25 OVER \$10,000K	
CA	E Washington Westlake Vlg	213-889-3631
CO	D Gagliano Englewood	303-762-1754
GA	W McCarty Marietta	404-971-2669
NY	Ross Equipment Rochester	716-271-5660
OH	H Webber Cincinnati	513-474-4171
WA	Sweo Engrg Bellevue	206-644-2725

DISTRIBUTORS

CA	Republic Sply San Jose	408-279-2202
MA	Empire Elec Medford	617-395-5000
NY	B & B Motor & Control New York	212-966-5777

ELECTROCUBE	1710 S DEL MAR AVE SAN GABRIEL CA 91776	
	TXW 910-589-1609	213-573-3300
	E BRYANT EMP 150 ENG 9 \$5,000-\$10,000K	
CA	English & Louro Sales Garden Grove	714-891-4621
IL	Richmar Elctns Downers Grove	312-968-0118
MA	Godfrey Co Reading	617-944-2230
MN	Electro-Serv Mnpls	612-827-2907
MO	Centech Sales Raytown	816-358-8100
MO	Centech Hazelwood	314-731-4220
NJ	Tyler-Griffin Co Paoli	215-647-1550
NY	Gislasen Sales Co Rochester	716-454-4741
NY	MOS Assoc Floral Park	516-694-5923
OH	K W Elctn Sales Dayton	513-890-2150
PA	KW Elctn Sales Allison Pk	412-487-4300
PA	Tyler Griffin Co Paoli	215-647-1550
TX	Richmar Elctns Plano	214-867-8224
WI	Richmar Elctns Oak Creek	414-475-0141

ELECTRO DYNAMICS DIV SFE

TECHNOLOGIES	9075 CODY OVERLAND PARK KS 66214	
	TXW 42254	913-888-1750
	B BRASSE EMP 300 ENG 6	
AL	Electronic Sales Inc Huntsville	205-533-1735
CO	Parker-Webster Co Parker	303-841-4888
CT	Gerald Rosen Co Stratford	203-375-5456
FL	Perrott Assoc Inc Orlando	305-298-7748
GA	Electronic Sales Inc Norcross	404-448-6554
IL	Spion Assoc Downers Grove	312-963-7011
IN	France Enterprises Indpls	317-462-6098
IA	Stan Clothier Co Cedar Rapids	319-395-0245
MD	Micro-Comp Inc Baltimore	301-247-0400
MA	Gerald Rosen Co Framingham	617-879-5505
MI	Lepofsky & Assoc Southfield	313-569-6080
MN	Stan Clothier Co Mnpls	612-344-3456
NY	Ossmann Components Rochester	716-424-4460
OK	Bonner-Philhower Sales Tulsa	918-744-9964
OR	General Electronics Beaverton	503-641-5288
PA	C H Hewson & Assoc Flourtown	215-248-3377
TX	Bonner-Philhower Sales Richardson	214-234-8438
UT	Parker-Webster Co SLC	801-266-9939
VA	Micro-Comp Inc Huddleston	
WA	General Electronics Renton	206-228-9505

DISTRIBUTORS

AL	Pioneer Technologies Huntsville	205-837-9300
AZ	Shelley Electronics Tempe	602-894-2058
AZ	Time Electronics Tempe	602-967-2000
AZ	TTI Inc Phoenix	602-966-1616
CA	National Capacitor Garden Grove	213-598-9611
CA	Shelley Electronics Chatsworth	818-998-3333
CA	Time Electronics Sunnyvale	408-734-9888
CA	Inductor Supply Huntington Beach	213-594-8658
CA	Distel Westlake Village	805-495-9998
CA	Harper S I D Compton	213-979-5090
CA	Hi-Rel Electronics Irvine	213-594-9571
CA	Petel Electronics San Fernando	818-365-9841
CA	QC Components Chatsworth	818-700-2622
CA	Diplomat Elect Sunnyvale	408-734-1900
CA	Ratel Electronics Irvine	213-637-0839
CA	TTI Inc Chatsworth	818-709-1010
CA	TTI Inc San Jose	408-943-9155
CO	Shelley Electronics Boulder	303-442-2718
CO	Time Electronics Englewood	303-850-7701
CT	Green Shaw Inc New Haven	203-397-0710
CT	TTI Inc Stratford	203-375-1400
FL	Shelley Electronics Tampa	813-884-0946
FL	TTI Inc Orlando	305-859-1000
FL	Zebra Electronics Golden Rod	800-638-1103
GA	TTI Inc Atlanta	404-662-0911
GA	Pioneer Technologies Norcross	404-448-1711
IL	Bel Industries Chicago	312-982-9210
IL	Nep Electronics Chicago	312-625-8400
IA	Bel Industries Cedar Rapids	319-395-0730
MD	Resco Beltsville	800-638-1242
MD	Zebra Electronics Timonium	800-638-1103
MD	Pioneer Technologies Gaithersburg	301-921-0660
MD	Diplomat Elect Columbia	301-995-1226
MA	Green Shaw Inc Newton	617-969-8900
MA	TTI Inc Woburn	617-938-8800
MN	Diplomat Elect Plymouth	612-559-2500
NJ	Action Electronics Audubon	609-858-2450

NJ	Diplomat Elect Totowa	201-785-1830
NJ	Zebra Electronics Maple Shade	609-779-8073
NY	Shelley Electronics Bohemia	516-567-7751
NY	Jaco Electronics Hauppauge	516-273-5500
NY	Semi-Cap Elctns Central Islip	516-582-4400
NY	Fairmont Elect Sales Hauppauge	516-231-3313
NY	Diplomat Elect Liverpool	315-652-5000
NY	TTI Inc Bohemia	516-567-1500
NY	Zebra Electronics Bohemia	516-563-2160
NY	Diplomat Elect Melville	516-454-6400
NC	Pioneer Technologies Charlotte	704-527-8189
OH	Aschbacher & Assoc Dayton	513-252-7785
PA	Pioneer Technologies Horsham	215-674-4000
TX	Jaco Electronics Richardson	214-235-9575
TX	TTI Inc Fort Worth	817-831-0441
TX	Diplomat Elect Dallas	214-980-1888
TX	Diplomat Elect Houston	713-975-8411
UT	Ratel Electronics Midvale	801-562-2600
UT	Diplomat Elect SLC	801-486-4134
WA	Time Electronics Bellevue	206-641-3640
WI	Badger Elect Parts Racine	414-637-1256
WI	Bel Industries Waukesha	414-457-8879

ELECTRODYNAMICS INC A TALLEY	INDUS CO 1200 HICKS RD ROLLING MEADOWS IL 60008	
	TXW 28-1070	312-259-0740
	F RAFFERTY EMP 250 ENG 50 OVER \$10,000K	
AZ	M W Riedel & Co Phoenix	602-971-0006
CA	M W Riedel & Co Alhambra	213-283-7694
CA	Liaison Inc Hayward	415-783-1131
CO	West Inc Denver	303-477-8180
CT	FJS Assoc Old Saybrook	203-388-5374
FL	Delmac Sales Orlando	305-898-4688
IA	J R Sales Engrg Cedar Rapids	319-393-2232
MD	Delmarva Eng Assoc Ltd Severna Pk	301-647-8007
MA	FJS Assoc Winchester	617-729-3133
MA	TWC Sales Mnpls	612-636-1770
MO	Midwest Meridian St Louis	314-878-4444
NJ	Churchill Assoc Clinton	201-735-8977
NY	Noeth Honsinger Pittsford	716-586-9002
NY	Hingston Walsh Assoc Larchmont	914-834-5787
PA	Rivco January Norristown	215-631-1414
TX	Midwest Meridian Ft Worth	817-654-2133

ELECTRO-FILMS INC 111 GILBANE ST	WARWICK RI 02886	
	TXW 710-382-0405	401-738-9150
	F URRICO EMP 110 ENG 12 \$5,000-\$10,000K	
AL	BCI Inc Huntsville	205-539-4411
CA	Weatherman Assoc Santa Ana	714-544-1301
GA	BCI Inc Chamblee	404-455-0040
IL	Willtech Corp Hinsdale	312-655-4851
IN	CC Electronics Indpls	317-255-1500
MA	Vector Assoc Boston	617-787-2797
MI	Electro Sales Assoc Livonia	313-474-7321
MN	Comprehensive Tech Sales Mnpls	612-888-7070
NY	Robt Smith Assoc New York	212-541-4888
NY	Labtronics Syracuse	315-455-7311
NC	BCI Inc Charlotte	704-545-7655
OH	Electro Sales Assoc Cleveland	216-261-5441
TX	J Clay Co Dallas	214-350-1282
WA	Mars Bellevue	206-747-3229
WI	Willtech Corp Milwaukee	414-961-8866

ELECTROGLAS C/O XYNETICS	UNIT GENERAL SIGNAL 2901 CORONADO DR SANTA CLARA CA 95054 TWX 910-338-0500	408-727-4488
	R GILMAN EMP 400 ENG 14 OVER \$10,000K	
AZ	D White Tempe	602-968-1111
CA	Tritek Northridge	213-349-3877
CA	R Pruitt Capistrano Beach	714-240-1013
FL	GRY Inc Lake Worth	305-965-5111
IN	J Dansby Indpls	317-841-6113
NH	R D'Entremont Manchester	603-622-8887
TX	J Williams Richardson	214-690-1666

ELECTROHOME LTD 809 WELLINGTON	ST N KITCHENER ON N2G 4J6	
	TXW 069-55449	519-744-7141
	M NOBBS EMP 2100 ENG 200 OVER \$10,000K	
MA	Tech Plus Inc Needham	617-449-5642
NY	LCA Sales Tuckahoe	212-585-1614

DISTRIBUTORS

CA	Listec Corp Glendale	213-247-9241
FL	Kimtron Corp Ltd Almonte Sprgs	305-339-5977
IL	Jackman Sales Inc Berkeley	312-449-8000
UT	Anderson Assoc Bountiful	801-292-8999

ELECTRO IMPULSE LAB INC	116 CHESTNUT ST BOX 870 RED BANK NJ 07071	
	TXW 710-7225717	201-741-0401
	M RUBIN EMP 95 ENG 11 \$2,500-\$5,000K	
CA	RDH Assoc Los Angeles	213-396-4100
MA	Geder Assoc Reading	617-944-3100
NY	Bertram Aaron & Co Greenvale	516-621-0683
TX	Spectra Sales Corp Richardson	214-234-3600
FR	Sylvan Ginsbury Ltd Oradell NJ	201-261-3200

ELECTRO INDUSTRIES DIV EI	ELCTNS INC 1800 SHAMES DR WESTBURY NY 11590 TWX 4948652	516-334-0877
	S KAGAN EMP 20 ENG 2 ADV P3 270	

ELECTRO INDUSTRIES INC	4201 W IRVING PARK RD CHICAGO IL 60641	312-736-0999
	N SCHWARTZ ADV P3 342	
ELEC-TROL INC	26477 N GOLDEN VALLEY RD SAUGUS CA 91350	
	TXW 18-1151	805-252-8333
	F COOPER EMP 650 ENG 27 OVER \$10,000K	
AL	Beacon Elctn Assocs Huntsville	205-881-5033
AZ	System Sales of AZ Tempe	602-829-9333

AR	Beacon Elctns Little Rock.....	501-224-5449
CA	Elscos Garden Grove.....	714-891-4621
CO	Elcom Inc Denver.....	303-337-2300
FL	Beacon Elctn Assocs Boca Raton.....	305-392-3500
GA	Beacon Elctn Assocs Atlanta.....	404-256-9640
IL	Lincoln Hodges & Assoc Des Plaines.....	312-297-3810
KS	John F Guernsey Co Overland Pk.....	913-381-2225
MA	Stone Comp Sales Framingham.....	617-875-3266
MI	Techrep Ypsilanti.....	313-572-1950
MN	RK Sales Inc Mpls.....	612-786-5713
NY	Sonkin Assoc Yonkers.....	914-968-8282
NY	KLM-Garner Co Clark Mills.....	315-853-6126
NC	Beacon Elec Assoc Raleigh.....	919-787-0330
OH	Mulligan & Assoc Columbus.....	614-457-2242
OR	Earl & Brown Co Portland.....	245-2283
PA	Jadelectronic Assoc Birchrunville.....	647-5151
TX	Ald Electronics Irving.....	259-4781
UT	Elcom Inc SLC.....	801-485-7415
WA	Earl & Brown Co Seattle.....	206-284-1121
WI	Lincoln Hodges & Assoc Janesville.....	608-754-4214

DISTRIBUTORS		
AL	Component Dist Inc Huntsville.....	205-883-7501
AZ	Acacia Sales Tempe.....	602-894-2874
CA	Acacia Sales Sunnyvale.....	408-745-1229
CA	Patane Avionics Van Nuys.....	213-988-4455
CA	Acacia Sales San Diego.....	619-565-4365
CA	Arrow Elect San Diego.....	619-565-4800
CA	Arrow Elect Sunnyvale.....	408-745-6800
CA	Arrow Elect Chatsworth.....	818-701-7500
CA	Master Dist Santa Monica.....	213-452-1229
CO	Acacia Sales Lakewood.....	303-232-2882
GO	Arrow Elect Denver.....	303-758-4585
CT	Arrow Elect Wallingford.....	203-265-7741
FL	Component Dist Inc Ft Lauderdale.....	305-429-8200
FL	Arrow Elect Ft Lauderdale.....	305-429-8200
GA	Arrow Elect Norcross.....	404-449-8252
IL	Arrow Elect Schaumburg.....	312-397-3440
IL	Voyager Elect Itasca.....	312-773-4900
IN	Arrow Elect Indpls.....	317-243-9353
MD	Arrow Elect Baltimore.....	301-381-3809
MA	Arrow Elect Woburn.....	617-933-8130
MA	Jaks Elect Framingham.....	617-875-3266
MI	Arrow Elect Ann Arbor.....	313-971-8220
MN	Arrow Elect Edina.....	612-830-1800
MN	Voyager Electronics II Fridley.....	612-571-7766
MO	Arrow Elect St Louis.....	314-567-6888
NH	Arrow Elect Manchester.....	603-668-6968
NJ	Arrow Elect Moorestown.....	609-235-1900
NJ	Kin-Tronics Mt Vernon.....	914-968-7736
NY	Arrow Elect Farmingdale.....	516-293-6363
NY	Arrow Elect Liverpool.....	315-652-1000
NY	Simcona Elect Rochester.....	716-328-3230
NC	Arrow Elect Raleigh.....	919-876-3132
OH	Repco Solon.....	216-248-8900
OR	Acacia Sales Beaverton.....	503-646-3377
PA	Shap Elec Phila.....	215-969-3300
PA	Arrow Elect Monroeville.....	412-856-7000
TX	Arrow Elect Dallas.....	214-386-7500
WA	Arrow Elect Bellevue.....	206-643-4800
WI	Arrow Elect Oak Creek.....	414-764-6800
FR	RAE Ind Elect Burnaby BC.....	604-291-8866
FR	RAE Ind Elect Edmonton AB.....	403-451-4001

ELECTROLOGIC INC 1359 28 ST SIGNAL HILL CA 90806.....		
T HUDSON EMP 9 ENG 3 \$1,000-\$2,500K		213-595-0551
ELECTROMAGNETIC SCIENCES INC 125 TECHNOLOGY PK ATLANTA NORCROSS GA 30092.....		
TWX 810-766-1599		404-448-5770
W ALVERSON EMP 357 ENG 32 OVER \$10,000K		
CA	J L Tech Sales Mt View.....	415-969-5552
NY	B D Aaron & Co Greenvale.....	516-621-0630
TX	Texas Microwave Elctns Co Dallas.....	214-231-5381
FR	Dage Corp Stamford.....	203-324-3123

ELECTROMARK CO BOX 25 W PORT BAY RD WOLCOTT NY 14590.....		
TWX 888295		315-594-8085
J ROWE EMP 290 ENG 6 OVER \$10,000K		

ELECTROMATIC CONTROLS CORP 2495 PEMBROKE AVE HOFFMAN ESTATES IL 60195-2010.....		
TWX 910-222-3452		312-882-5757
EMP 325 ENG 25 OVER \$10,000K		

ELECTROMATIC EQUIPMENT CO INC 602 OAKLAND ST CEDARHURST NY 11516 TWX 645561.....		
I BROMLEY EMP 8 ENG 1 \$250-\$500K		516-295-4300

ELECTRO-MECHANISMS INC 2745 E HUNTINGTON DR DUARTE CA 91010.....		
J SLEIGH EMP 30 ENG 2 \$1,000-\$2,500K		818-359-2535

ELECTRO-MECH CO 707 HATHAWAY DR COLORADO SPRINGS CO 80915.....		
EMP 150 ENG 3		303-597-1620

AZ	CPS & Assoc Phoenix.....	602-246-1097
CA	Tauber & Assoc San Diego.....	619-274-7242
CA	Jack Daley & Assoc San Jose.....	408-438-5612
CA	K & R Sales Van Nuys.....	800-423-2664
CO	TMA Sales Parker.....	303-841-3435
IL	Bob Burns & Assoc Parkridge.....	312-775-1283
IN	Electronic Sys & Eng Indpls.....	317-849-4260
KS	Baka Corp Wichita.....	316-682-8411
MA	A & M Electronics Needham.....	617-444-8170
NC	R Burns Raleigh.....	919-876-2224
OH	Jim Finnegan & Co Cleveland.....	216-283-5905
PA	Tucker Assoc Stratford.....	215-964-9227
TX	Caten Sales Dallas.....	214-243-4716

ELECTRO-MECH COMPONENTS INC 1826 N FLORADALE SO EL MONTE CA 91733.....		
M AMBROSE EMP 75 ENG 2 \$1,000-\$2,500K		818-442-7180
CA	Engineering Assoc Santa Clara.....	408-988-5001
CA	Qualtronics San Diego.....	619-695-0118
CA	Universal Components Co LA.....	213-641-4255
CO	Franklin Sales Englewood.....	303-789-2526
CT	Todino Eng Sales Co Milford.....	203-874-6643
FL	Publicover Assoc Orlando.....	305-899-9361
IL	Industrial Reps Skokie.....	312-967-8430
IN	Scott Elctns Indpls.....	317-897-9976
MA	Todino Eng Sales Co Needham Hgts.....	617-444-7925
MI	Michigan Mktg & Sales Brighton.....	313-229-6218
MN	D A Case Assoc Mpls.....	612-869-3700
NJ	Component Consultants Medford.....	609-654-5300
NY	Bassin Tech Sales Co Mamaroneck.....	914-698-9332
NY	SHR Inc Camillus.....	315-487-3232
OH	Scott Electronics Cleveland.....	216-473-5050
OR	Doran Sales Assoc Forest Grove.....	503-357-3333
TX	McCoy Assoc Richardson.....	214-238-1017
VA	Eltron Sales Ltd Front Royal.....	703-635-7201
WA	Doran Sales Assoc Redmond.....	206-885-1885
WI	Industrial Reps Milwaukee.....	414-259-0965

DISTRIBUTORS		
AZ	Master Elctn of Az Phoenix.....	602-258-6476
CA	Paster Dist Santa Monica.....	213-452-1229
CA	Electric Switches LA.....	213-660-1310
FL	Dielco/Comps Ft Lauderdale.....	305-973-8700
NY	Genesee Radio & Parts Buffalo.....	716-873-9661
NY	LogiComp Elctns Mamaroneck.....	914-698-9332

ELECTROMECH INC 528 ELM ST KEARNY NJ 07032.....		
		201-997-0950

ELECTRO-METRICS DIV PENRIL CORP 100 CHURCH ST AMSTERDAM NY 12010 TWX 710-446-4798.....		
J HAVLICEK EMP 115 ENG 8 \$5,000-\$10,000K		518-843-2600

AZ	DJM Elctrs Mesa.....	602-820-4030
CA	DJM Elctrs Mt View.....	415-966-1680
CA	DJM Elctrs Newhall.....	805-254-2677
CO	R A Mayes Co Englewood.....	303-761-9447
FL	Beacon Elctns Clearwater.....	813-796-2378
GA	Beacon Elctns Atlanta.....	404-256-9640
IL	Electronic Inst Assoc Park Ridge.....	312-298-2290
IN	Electronic Inst Assoc Indpls.....	317-270-1831
KS	Midtec Assoc DeSoto.....	913-441-6565
MD	Gawler-Knoop Co Silver Spring.....	301-589-4406
MI	Technical Sales Assoc Union Lake.....	313-363-1427
MO	Midtec Assoc Florissant.....	314-837-5200
NJ	Brady Co Iselin.....	201-283-4000
NM	IMEC Albuquerque.....	505-883-9010
NY	Electro-Modular Sys Guiderland.....	518-456-2665
OH	Technical Sales Assocs Cleveland.....	216-461-0826
TX	Scientific Devices Richardson.....	214-231-8106
WA	J Assoc Seattle.....	206-246-6619
FR	Multiek Nepean ON.....	613-226-2365

ELECTRO NATIONAL CORP MATTHEWS AV BOX 402 CANTON MS 39046.....		
TWX 810-990-0938		601-859-5511
P HICKS EMP 48 ENG 5 \$1,000-\$2,500K		

ELECTRO-NAV INC 480 BOND ST ELIZABETH NJ 07201 TWX 139381.....		
J SAEZ EMP 130 ENG 5 OVER \$10,000K		201-527-0089

ELECTRONIC ASSOCIATES INC 185 MONMOUTH PKWY WEST LONG BRANCH NJ 07764.....		
TWX 1-32443		201-229-1100
EMP 500 OVER \$10,000K		
AL	Electronic Assoc Huntsville.....	205-881-7031
CA	Electronic Assoc Torrance.....	213-375-0588

ELECTRONIC BRAZING CO INC 662 MYRTLE AVE BOX 187 BOONTON NJ 07005.....		
E MALAVERCA EMP 6 ENG 1 \$100-\$250K		201-334-4580
IL	Murphy & Dickey Westchester.....	312-344-5660
MD	W H Cooke & Co Finksburg.....	301-833-8200
MI	G R Peters Assoc Troy.....	313-362-1220
MO	C O Leaver Co St Louis.....	314-506-1500
NY	H H Sticht Co New York.....	RE 2-8163
NC	W K Hille Co Matthews.....	704-847-9125
OH	Beedle Equip Co Cincinnati.....	513-793-0140
OR	J L Kearns Co Wilsonville.....	503-236-1165
PA	Wistex King of Prussia.....	215-337-1240
TX	W E Brice Co Dallas.....	214-233-9808
WI	T R Bickler Assoc Wauwatosa.....	414-453-3772

ELECTRONIC COILS INC EB44 FRANK B MURRAY ST BOX 1665 SPRINGFIELD MA 01101.....		
TWX 710-350-7590		413-736-6339
P DELSKY EMP 150 ENG 4 \$2,500-\$5,000K		

AZ	Chapman & Assoc Tempe.....	602-894-6775
CA	Cal Rep Agoura.....	213-991-1940
FL	Asklund Elctn Components Hollywood.....	305-987-1074
MN	Romain OEM Minneapolis.....	612-541-0236
NE	Marathon Sales Fayetteville.....	617-875-3566
NJ	SAIL South Orange.....	201-763-7900
NY	Rosmar Components Inc Syracuse.....	915-487-6951
TX	Precision Technology Richardson.....	214-234-8071

ELECTRONIC COMPONENT ASSEMBLY INC 9500 ALTO DR LA MESA CA 92041.....		
J WINTER EMP 120 ENG 2 \$1,000-\$2,500K		619-464-0910

ELECTRONIC COMPONENTS GROUPE 14143 21 AVE N PLYMOUTH MN 55441 TWX 910-576-1725.....		
		612-559-0720

DISTRIBUTORS		
CA	Logan Electronics Burlingame.....	415-594-0700
CA	Target Electronics Mt View.....	415-961-1170
CA	Prime Electro Manhattan.....	213-379-3642
CA	Yale Electric Hollywood.....	213-465-3186
CA	Master Distributors Santa Monica.....	213-452-1229
CT	Century Elec Supply Shelton.....	203-736-2884
FL	KSM Electronics Ft Lauderdale.....	305-971-5900
GA	KSM Electronics Atlanta.....	404-458-2013
MD	P S I Beltsville.....	301-937-4960
MD	D K Electronics Columbia.....	301-995-1950
MN	Glen Mark Inc Mpls.....	612-941-4825
WA	Radar Electric Co Seattle.....	509-747-3053

ELECTRONIC COMPONENTS & SERVICES 208 CORDELIA ST BOX 23 FOX LAKE WI 53933.....		
EMP 22 \$250-\$500K		414-928-2611

ELECTRONIC CONCEPTS INC 526 INDUSTRIAL WAY W EATONTOWN NJ 07724.....		
TWX 710-722-6661		201-542-7880
A DIGILO EMP 240 ENG 4 \$5,000-\$10,000K		

CA	Electronic Concepts Colton.....	714-824-2525
CA	Select Elctns La Mirada.....	714-739-8891
CO	Piper Sales Co Longmont.....	303-443-5337
FL	Conley & Assoc Oviedo.....	305-365-3283
IL	Electronic Concepts Wheaton.....	312-668-8747
MN	Components Group Mpls.....	612-374-1250
MO	Harris-Hansen Co Grandview.....	816-763-6200
NJ	Winch Sales Assoc East Brunswick.....	201-828-4615
NY	Winch Sales Assoc Roslyn Hts.....	516-621-6378
OR	Components West Tigard.....	503-684-1671
TX	Milrep Assoc Richardson.....	214-644-6731
TX	Milrep Assoc Houston.....	713-444-2557
TX	Milrep Assoc Austin.....	512-459-8602
UT	Piper Sales Co Salt Lake City.....	801-466-9336
WA	Components West Redmond.....	206-885-5880
FR	G & A Assoc Rio Piedras PR.....	809-751-6148

DISTRIBUTORS		
NJ	Elcon Sales Teterboro.....	201-288-9170

ELECTRONIC CONTROLS DESIGN INC 13626 S FREEMAN RD MULINO OR 97042 TWX 70-3874.....		
S GLASS EMP 90 ENG 3 \$2,500-\$5,000K		503-829-9108

ELECTRONIC COUNTERS & CONTROLS INC 1500 MCCORMICK AVE MUNDELEIN IL 60060.....		
TWX 28-1042		312-362-8910
J MOSAK EMP 50 ENG 4		

AL	Smith Lake Automation Jasper.....	205-221-2492
AR	Electro Related Prod Ft Smith.....	501-452-4030
CA	Foxco Carritos.....	714-739-8181
CA	Stuart Assoc Danville.....	415-837-8197
FL	Bay Armature Tampa.....	813-229-1426
FL	Manola Garcia Elec Midley.....	305-884-1717
IL	Traco Northbrook.....	312-564-2288
IN	Pacer Sales & Eng Indpls.....	317-849-1481
IA	Lake Land Engrg Sioux City.....	712-252-3611
MI	Xanthus Troy.....	313-528-2000
MI	Elec-Trol Inc Mpls.....	612-872-4203
MO	Drive Design Manchester.....	314-394-6631
NJ	Wolock & Lott Kenilworth.....	201-241-4333
NY	P M Decew Cazenovia.....	315-655-8602
NC	Techni-Reps Greensboro.....	919-884-4474
OH	Servo-Mark Cleveland.....	216-871-2353
PA	Hostvedt-Pavoni Ft Washington.....	215-643-5757
TX	Automatic Sys Dallas.....	214-688-1810
WA	Koley Engrd Prod Issaquah.....	206-392-2716
WV	J & R Brisky McMurray PA.....	412-941-5670
FR	Darmac Agencies Ltd Burnaby BC.....	604-524-8835
FR	Empo Sales Co Montreal PQ.....	514-341-6420

DISTRIBUTORS		
AR	Wise Wholesale Elect Ft Smith.....	501-783-8925
CA	Components West San Pedro.....	213-548-2020
CA	Cal West Danville.....	415-837-8197
GA	Bearings & Drives Dublin.....	912-272-3113
IL	Automation Comp Sales Park Ridge.....	312-823-8075
IL	Power Torque Inc Sesser.....	618-625-2111
IN	McBroom Electric Indpls.....	317-926-3451
MA	White Elec Motors Lowell.....	617-458-6336
MI	Xanthus Inc Troy.....	313-528-2000
MI	Hatfield Elec Kalamazoo.....	616-381-7200
MI	Industrial Elect Benton Harbor.....	616-925-3244
MI	Dingman Elect Belleville.....	313-697-9151
MN	Power Maton St Paul.....	612-645-0781
MS	White Elec Motors Lowell.....	617-458-6336
MO	Power Torque Inc Fenton.....	314-343-2250
NJ	Wolock & Lott Kenilworth.....	201-241-4333
NY	J M Forster Rochester.....	716-232-5410
NC	Transmission Supplies Charlotte.....	704-377-9522
OH	R K Fromm Akron.....	216-666-6737
OH	Sullivan Electric Cincinnati.....	513-241-5413
PA	Grant Industrial Pittsburgh.....	412-787-9707
PA	Clayton Engineering Pittsburgh.....	412-288-0643
SC	Brice Electric St Matthews.....	803-874-2977
TX	Textrol Dallas.....	214-484-9962
WV	Clayton Eng Wheeling.....	304-233-0960
WI	Fox Valley Neenah.....	414-734-0005
WI	Industrial Controls Greendale.....	414-421-3358
WI	Power/Matlon Div Waukesha.....	414-542-2863
FR	Serv-E-Tronics Burlington PQ.....	416-632-7608
FR	Safe-Tronics Systems Markham ON.....	416-492-8194

ELECTRONIC CRYSTALS CORP

1153 SOUTHWEST BLVD
KANSAS CITY, KS 66103
TWX 910-743-4170 913-262-1274
R OWENS EMP 70 ENG 2 \$1,000-\$2,500K
ADV PG 148

CA Bill Roe Co Tustin 714-730-1493
CA Freg Control Assoc San Jose 408-243-4412
NJ Marlech Marhasset 516-627-1151
NY Olkan Corp Carle Place 516-747-2330

ELECTRONIC DESIGNS INC

35 SOUTH ST HOPKINTON
MA 01748 TWX 948004 617-435-9077
M VICTOR EMP 70 ENG 14
AL Macro Marketing Huntsville 205-883-9630
CA Costar Inc Cupertino 408-446-9339
CO Thorson Rocky Mtn Sales
Englewood 303-779-0666
CT New England Tech Sales Meriden 203-237-8827
FL Donato Assoc Orlando 305-352-0727
IL Carlson Elctn Sales Elk
Grove Vlg 312-956-8240
KS Rush & West Assoc Olathe 913-764-2700
MD New Era Sales Severna Pk 301-544-4100
MA New England Tech Sales
Burlington 617-272-0434
MI Action Components Novi 313-349-3940
MN Cahill Schmitz & Cahill St Paul 612-646-7217
MO Rush & West Assoc Ballwin 314-394-7271
NJ R T Reid Teaneck 201-692-0200
NY Tri-Tech Electronics East
Rochester 716-385-6500
NY Tri-Tech Electronics Fishkill 914-897-5611
OH Lyons Corp Dayton 513-278-0714
OR Westenberg & Assoc Portland 503-620-1931
PA Knowles Assoc Huntington Valley 215-947-5841
TX Southern States Mktg Richardson 214-238-7500
UT Thorson Rocky Mtn Sales
West Valley City 801-973-7969
WA Westenberg & Assoc Bellevue 206-453-8881
WI Carlson Electronic Sales
Milwaukee 414-476-2790
FR Canteq Reps Ottawa ON 613-725-3704
FR Canteq Reps Dollard Des
Ormeaux PQ 514-683-6131
FR New England Tech Sales Ponce PR 809-843-7139

ELECTRONIC DEVELOPMENT CORP

11 HAMLIN ST BOSTON MA 02127
TWX 951596 617-268-9696
R ROSS EMP 20 ENG 3 \$1,000-\$2,500K
AL Morard & Co Huntsville 205-881-5968
AZ R A Mayes Phoenix 602-279-5243
CA FLW Hayward 415-487-2222
CA F L W Costa Mesa 714-751-7512
CA F L W San Diego 714-277-0993
CO R A Mayes Co Englewood 303-761-9447
FL Lee Assoc Winterhaven 813-294-5815
IL Carvel Eng Co Hoffman Est 312-885-8800
IN Berndt Assoc Carmel 317-844-0114
KS Ramsey Assoc Overland Pk 913-649-6996
MD Powell Pendergaph Washington 301-657-8167
MA Electronic Devel Corp Boston 617-268-9696
MI Tiby Co Hazel Park 313-547-3550
MN Carvel Engrg & Sales Co Edina 612-835-7929
MO Ramsey Assoc Maryland Hts 314-878-5042
NM R A Mayes Co Albuquerque 505-292-2330
NY Cane Tech Sls White Plains 914-694-9240
NY Ossmann Instruments E Syracuse 315-437-7052
NC Lee Assoc Raleigh 919-848-8818
OH Tiby Co Cleveland 216-371-5335
OR Topp Engrg Portland 503-244-7265
PA Powell Pendergaph Willow Grove 215-657-0330
TX R A Mayes Co Richardson 214-247-1332
UT R A Mayes West Jordan 801-292-6781
VT Data Reps Inc South Burlington 802-863-0933
VA Powell Pendergaph Richmond 804-740-3570
WA Topp Engrg Co Bellevue 206-747-5400
WI Carvel Eng New Berlin 414-784-7007
FR Interfax Sys Inc Richmond ON 613-838-3187
FR Southern Intl Sales Santurce P R 809-726-7635

ELECTRONIC DEVELOPMENT LABS INC

385 OSER AVE HAUPPAUGE
NY 11788 516-435-2808
D OLIVERI EMP 45 ENG 5

ELECTRONIC DEVICES INC

21 GRAY OAKS AVE YONKERS
NY 10710 TWX 710 560 0021 914-YO5-4400
D DEAN EMP 250 ENG 15 \$5,000-\$10,000K
ADV PG 386

AZ Dowling Technical Phoenix 602-893-7355
CA Advantage Palo Alto 415-949-1260
CA ATA Assoc San Clemente 714-498-7180
FL EPM Corp Margate 305-977-0331
IN Berndt Assoc Carmel 317-844-0114
MO Cummings Assoc Sharon 617-784-5600
MI Techrep Ypsilanti 313-572-1950
MN P Lydon Brooklyn Center 612-535-6526
MO Rep-tronics Inc St Louis 314-576-9816
NY Promark Electronics Morrisville 315-662-3310
NY Optimum Sales Co Mastic 516-399-6246
NC B T Funderburk Inc Raleigh 919-782-3493
OH J O Olsen Co Cincinnati 513-922-2176
OH Components Inc Cleveland 216-243-9200
PA Yax Assoc Newtown 215-860-2540
TX MREP Houston 713-261-0798
WI Stumm Sales Mequon 414-241-8414
WI Klamco Electronics Rio
Piedras PR 809-752-6169
FR Gidden-Morton Assoc Mississauga
ON 416-671-8111
FR Elcom GMB Inc Pte Claire PQ

DISTRIBUTORS

AL Component Distributors
Huntsville 205-883-7501

AR Component Distributors
Little Rock 501-227-6278
CA A-Z Electronics Anaheim 714-634-3620
CO Regon Electronic Parts Denver 303-744-1992
CO Industrial Electronics Englewood 303-694-9444
CT Wise Components Greenwich 203-531-4880
FL Component Distributors
Fl Lauderdale 305-971-4951
GA Component Distributors Norcross 404-441-3320
IL E M D Chicago 312-486-0060
IA Bergquist Cedar Rapids 319-366-8733
KY Peerless Electronic Equip
Louisville 502-637-3677
MA A W Mayer Billerica 617-667-6900
MI Repton Inc Livonia 313-525-2700
MN Merit Electronics Mpls 612-546-5383
MO Ric-Tronics St Louis 314-576-9816
NJ Verdura Sales Co Fairfield 201-785-1242
NY Fairmont Elect Sales Hauppauge 516-231-3313
NY QAR Elect Sales Mt Vernon 914-699-2224
NY Summit Distributors Buffalo 716-887-2843
NY Summit Distributors Rochester 716-334-8110
NY E E Taylor Co Albany 518-438-7811
NY Resco/Raleigh Raleigh 919-781-5700
NC Component Distributors Raleigh 919-834-3465
NC Century Elect Components Raleigh 919-872-2203
OH Gateway Megatech Wickliffe 216-944-5801
OH Repton/Ohio Worthington 614-436-6675
OK Trice Wholesale Elect Okla City 405-528-2632
OK Quality Components Tulsa 918-664-8812
OK Electronic Supply Co Okla City 405-232-5215
OR Radar Electric Co Portland 503-232-3400
TX Quality Components Addison 214-733-4300
TX Quality Components Sugarland 713-491-2255
TX Quality Components Austin 512-835-0220
VA Peoples Electronics Roanoke 703-342-8933
WA Radar Electric Seattle 206-282-2511
WI Badger Electronics Racine 414-637-1256
FR Klamco Electronics Rio
Piedras PR 809-752-6169
FR Westburne Downsview ON 416-635-2980
FR Electronic Wholesalers
Montreal PQ 514-769-8851
FR Electronic Wholesalers Ottawa ON 613-746-4413

ELECTRONIC DISPLAY SYSTEMS INC

2321 TOPAZ DR BOX 280
HATFIELD PA 19440 TWX 84-6113 215-822-6090
S STEINLY EMP 80 ENG 25 \$2,500-\$5,000K
KS D & O Engineering Box 1800 Wichita
OH Berberich Assoc Dayton 316-686-2808

ELECTRONIC ENCLOSURES DIV

WYLE LABS 6995 AIRPORT HWY LA
PENNSAUX NJ 08109 609-665-6810
R PACHE EMP 130 ENG 4 \$5,000-\$10,000K
AL Macro Mktg Assoc Huntsville 205-883-9630
CA Electronic Enclosures El Segundo 213-679-0181
FL Southeast Tech Sales Palmetto 813-729-3112
MD Imagitron Sales Randallstown 301-521-2020
MA Zieco Inc Lexington 617-861-8300
MI Norwood Scroggs Co Jackson 517-750-1170
MO Ensco-Rep Maryland Hts 314-423-3935
NY Precision Sales Liverpool 315-451-3480
OH Technical Devices Dayton 513-890-6811

ELECTRONIC EQUIPMENT CO LTD

741 PENINSULA BLVD HEMPSTEAD
NY 11550 TWX 316114 516-538-5510
K BRIN EMP 40 ENG 2
ADV PG 393
NY Electronic Equip Co Ltd NYC 718-895-5757

ELECTRONIC ESSENTIALS INC

60-20 34 AVE WOODSIDE
NY 11377 TWX 384873 718-898-8300
D ROSENBERG EMP 54 ENG 4 \$1,000-\$2,500K

ELECTRONIC HARDWARE CORP

320 BROAD HOLLOW RD
FARMINGDALE NY 11735 516-752-1950
V DISALVO EMP 85 ENG 3 \$2,500-\$5,000K

AR Atek Inc Glendale 602-931-2464
CA A T Assoc Santa Ana 714-540-0484
CO Garrett Sales Co Aurora 303-695-3720
FL OEM Mktg Orlando 305-299-1000
IL Chandra-Schilke Assoc Wheaton 312-653-8126
IN F E Kahsar Sales Ft Wayne 219-489-6717
KS Penzner-Mankus Assoc Overland Pk 316-381-0004
MD Imagitron Sales Pikesville 301-484-1411
MN Monroe Hanna Edina 612-925-5700
MO Penzner Mankus Assoc Hazelwood 314-731-4334
NY F H Brenneman Victor 716-924-3710
NY Multiline Ent NYC 212-686-4629
OH F E Kahsar Sales Cincinnati 513-922-3133
PA Maier-Wetterhahn Assoc
Willingboro 609-877-4762
TX W Pat Fraila Co Arlington 817-840-9101
WA James H Andersen Assoc
Mercer Island 206-232-0484
WI Badgerrep Milwaukee 414-771-1972

ELECTRONIC INSTRUMENT &

SPECIALTY CORP 42 PLEASANT ST
STONEHAM MA 02180 TWX 948-025 617-438-5300
R BOISSEAU EMP 130 ENG 8 \$2,500-\$5,000K
AL REMCO Huntsville 205-533-3763
CA Cirolia Electronic Sales
Escondido 619-489-2452
CO J F Hurlbut Co Golden 303-279-7796
FL Jack Krutek & Assoc Lighthouse
Point 305-941-6544
GA REMCO Atlanta 404-447-8937
IL Saffro & Assoc Lincolnwood 312-677-9720
IN Jim Finnegan & Co Dayton, OH 513-890-8322
IA Microtronics Inc St Charles 314-946-8500
KS Microtronics Inc Shawnee Mission 913-262-1444
MA E I S Stoneham 617-438-5300
MN Peterson Sales & Assoc Edina 612-944-0030
MO Microtronics Inc St Charles 314-946-8500

NV Pacific Marketing Hayward 415-887-1620
NJ Astorep Inc Parth Amboy 201-826-8050
NY Lynn Assoc Buffalo 716-631-0054
NY Astorep Inc Babylon 516-422-2500
NC REMCO Raleigh 919-847-5211
OH Jim Finnegan & Co Cleveland 216-238-5905
OR SPS Electronics Portland 503-297-6919
PA Harry Nash Assoc Willow Grove 215-657-2213
TX P J Scanlon Co Dallas 214-231-4661
UT J F Hurlbut Co Salt Lake City 801-973-4443
WA SPS Electronics Redmond 206-323-4140
WI Saffro & Assoc Lake Mills 414-648-2605

DISTRIBUTORS

AZ Keystone Electro Sales Phoenix 602-995-3005
CA Cypress Electronics Torrance 213-533-6000
CA Cypress Electronics San Jose 408-945-4840
CO Cypress Electronics Wheatridge 303-431-2622
CT Greene-Shaw Co New Haven 203-397-0710
FL Dielec/Comps Ft Lauderdale 305-973-8700
MD DK Electronics Columbia 301-995-1950
MA Greene-Shaw Co Newton 617-969-8900
MA A W Mayer Co Billerica 617-229-2255
MN Joel Co Hopkins 612-935-6202
NJ Relay Specialties Inc Fairlawn 201-797-3313
NY Trojan Elect Supply Co Troy 518-274-4481
OH Ohio Switch Inc Columbus 414-885-0319
OK Radio Inc Tulsa 918-587-9123
TX Cypress Electronics Dallas 214-869-1435
TX Gaumer Co Houston 713-460-5200

ELECTRONIC MATERIALS DIV

FERRO CORP 27 CASTILIAN DR
SANTA BARBARA CA 93117-3092
TWX 98-0165 805-968-5000
C CRUDER EMP 40 ENG 7 \$2,500-\$5,000K
CA Jay Marion Assoc San Marcos 619-744-0801
IN W W Bieberich Inc Ft Wayne 219-432-2537
MN Technical Mktg Co Mpls 612-829-0631
NY Felkert Assoc Fair Haven 315-947-5994
PA Scharas Assoc Franconia 215-368-2017

ELECTRONIC MEASUREMENTS INC

405 ESSEX RD NEPTUNE
NJ 07753 TWX 132424 201-922-9300
C RONEY EMP 200 ENG 15 OVER \$10,000K
USA all states except AK, HI & NJ call TOLL
FREE 800-631-4298

ELECTRONIC MOLDING CORP

96 MILL ST WOONSOCKET
RI 02895 TWX 710-387-1350 401-769-3800
L NOWICKI EMP 350 ENG 20
AL Cartwright & Bean Huntsville 205-830-1540
AZ K-Tec Sales Tempe 602-966-7551
CA West Mark Assoc Mt View 415-969-1700
CA Pegasus Sales Huntington Bch 714-964-8773
CO Harthun Assoc Englewood 303-792-5050
FL Cartwright & Bean Deerfield Bch 305-429-3400
FL Cartwright & Bean Orlando 305-422-4531
GA Cartwright & Bean Atlanta 404-233-2939
LA Cartwright & Bean Covington 504-892-1780
MD Macrotech Assoc Pasadena 301-437-5588
MN Kits Co Hopkins 612-933-1888
MS Cartwright & Bean Jackson 601-981-1710
MO Hayes Elctn Sales St Charles 314-946-6677
NJ Brown Assoc Sicklerville 609-629-2254
NJ Harold Gray Assoc Englewood 201-894-0894
NM Rep NEW Tech Albuquerque 505-293-2582
NY Empire Tech Binghamton 607-772-0651
NY Harold Gray Assoc Englewood 201-894-0894
NC Cartwright & Bean Charlotte 704-377-5673
NC Cartwright & Bean 919-876-4130
OH Ditrionix Corp Desc/Dayton
Cartwright & Bean Knoxville 615-693-7450
TN Cartwright & Bean Memphis 901-276-4442
TX Mil-Rep Assoc Richardson 214-644-6731
TX Mil-Rep Assoc Austin 512-459-8602
TX Mil-Rep Assoc Houston 713-444-2557

DISTRIBUTORS

AL Electro-Wise Huntsville 205-830-4766
AZ Heiland Electronics Phoenix 602-437-1060
CA Force Elect El Segundo 714-522-1324
CA Force Elect San Jose 408-943-1324
CT Heiland Elect Bethel 203-797-8600
CT Millenium Bridgeport 203-372-2037
FL Aztech Elect Orlando 305-291-1681
FL Electronic Equip Co Miami 305-871-3500
IA Bergquist Cedar Rapids 319-277-5155
MD Aztech Elect Columbia 301-995-1760
MA Heiland Elect Wilmington 617-657-4870
MA Vector Sales Boston 617-787-2790
MN Bergquist Minneapolis 612-835-2322
NJ Resco Elect Pennsauken 609-662-4000
NJ Meridian Supply Union 201-839-8665
NM Betatron Albuquerque 505-344-2831
NY Car-Lac Elect Sales Bohemia 516-567-4200
NY Villarreal Elect Millbrook 914-677-3447
NY Masline Elect Rochester 716-546-5373
OH Schuster Elect Twinburg 216-425-8134
OH Schuster Elect Cincinnati 513-489-1400
OK Altair Co Tulsa 918-252-5781
TX Altair Co Houston 713-462-3029
TX Altair Co Richardson 214-231-5166
TX Lenert Co Houston 713-225-1465
TX International Elec Dallas 214-233-9323

ELECTRONIC NAVIGATION INDUSTRIES

INC 100 HIGHPOWER RD
ROCHESTER NY 14623
TWX 671-1542 716-427-8300
EMP 225 OVER \$10,000K
ADV PG 18

AL W A Brown Instruments Huntsville 205-883-8660
AZ Trembly Assoc Tempe 602-967-2058
CA McDougall-McLaughlin Co L A 213-477-8556
CA Jay Stone & Assoc Los Altos 415-948-4563
CO Trembly Assoc Wheat Ridge 303-421-8900
FL W A Brown Instruments Orlando 305-425-5505

FL	W A Brown Instruments Ft Lauderdale	305-776-4800
FL	W A Brown Instruments Melbourne	305-723-0766
GA	W A Brown Instruments Norcross	404-441-2980
IL	Sector Engineering Elmhurst	312-530-7850
IN	Sector Engineering Indpls.	317-842-1120
KS	Ramsey Assoc Lenexa	913-541-1007
LA	W A Brown Instruments Mandeville	504-626-9701
MD	Gawler Knoop Silver Spring	301-589-4400
MI	WKM Assoc Madison Hts.	313-588-2306
MO	Sector Engineering Mpls.	612-593-1809
MO	Ramsey Assoc Maryland Hts.	314-878-5042
NV	Trembley Assoc Las Vegas	702-739-9770
NH	JPR Elctns Sales Nashua	603-889-8295
NM	Trembley Assoc Albuquerque	505-266-8616
NY	RTI Inc Greck Neck	516-829-3770
NC	W A Brown Instruments Durham	919-479-5200
OH	WKM Assoc Dayton	513-434-7500
OH	WKM Assoc Independence	216-524-5930
PA	John Bell Assoc Mechanicsville	215-794-7075
PA	WKM Assoc Pittsburg	412-892-2953
SC	W A Brown Instruments Columbia	803-798-8070
TN	W A Brown Instruments Oakridge	615-482-5761
TX	Lear Assoc Richardson	214-231-5388
TX	Lear Assoc Houston	713-488-7893
UT	Trembley Assoc SLC	801-486-5292
WA	Scientific Devices NW Bellevue	206-747-5169
WA	Sector Engineering Milwaukee	414-352-8280
FR	Rayonics Scientific Downsview ON	416-736-1600
FR	Rayonics Scientific Ottawa ON	613-521-1821
FR	Rayonics Scientific St Laurent PQ	514-335-0105
FR	Rayonics Scientific Burnaby BC	604-293-1854

ELECTRONIC PRECISION COMPONENTS
CORP 11 W SANDFORD BLVD
MT VERNON NY 10550 914-664-2333
D EDWARDS EMP 8 ENG 2 \$250-\$500K
ADV PG 184

CA	W H Industries Granada Hills	213-363-3910
CO	Midwest Meridian Corp Aurora	303-341-7550
IL	Midwest Meridian Corp Elk Grove Vlg	312-640-9540
IN	Midwest Meridian Corp Cedar Rapids	319-365-6561
MA	Crawford Assoc Andover	617-470-2122
MI	Midwest Meridian Corp Prior Lake	612-447-8222
MO	Midwest Meridian Corp Maryland Hts	314-878-4441
OH	Midwest Meridian Corp Fairborn	513-879-7100
TX	Midwest Meridian Corp Ft Worth	817-654-2132

ELECTRONIC PROCESSORS INC		
1265 W DARTMOUTH AVE		
ENGLEWOOD CO 80110		
TX	910-933-0171	303-761-8540
V	STINTON EMP 100 ENG 22 \$5,000-\$10,000K	
AL	Pen-Tech Assoc Huntsville	205-881-9298
CA	Bergis Assoc Gilroy	408-847-0444
CA	Advance Data Mktg Parker	303-841-4903
CA	Pen-Tech Assoc Deerfield Bch	305-421-4989
CA	Data Electronics Inc Chicago	312-283-0300
CA	J-4 Systems Inc Rockville	301-424-4144
CA	Vector Sales Inc Allston	617-787-2190
CA	Electronic Sales Assoc Ann Arbor	313-665-5397
CA	Electronic Processors Princeton	609-921-6128
CA	Pen-Tech Assoc Greensboro	919-852-6000
CA	Electronic Sales Assoc Cleveland	216-261-5440

ELECTRONIC PROGRAMMING CORP
3681 E NOCHS ST SANTA CLARA
CA 95051 TWX 910-338-2311 408-746-0333
K CESAR EMP 24 ENG 4 \$1,000-\$2,500K
R Adtool Corp Quebec 514-482-2548

DISTRIBUTORS		
CA	Shattuck & Hagen Sunnyvale	408-745-0448
CA	Sidco Sunnyvale	408-737-0442
CA	Bertech Fullerton	714-526-3700
CA	Com-Kyl Sunnyvale	408-734-9660
CA	McLaughlin Pico Rivera	213-723-2411
CA	Millex Elmhurst	312-941-7100
CA	Winco Tyngsboro	617-649-7165
CA	TC Services Bloomington	612-854-6264
CA	Deanco Ithaca	607-257-4444
OH	Electro Sales Assoc Dayton	513-426-5551
OR	Murphy Industrial Portland	503-620-8680

ELECTRONIC RESEARCH CO 7618 WEDD		
OVERLAND PARK KS 66204		
TX	910-749-6477	913-631-6700
C	DITZLER EMP 50 ENG 3	
NJ	Comp-Tech Sales Box 50 Riverdale	201-935-5454
NY	Comp-Tech Sales Box 237 New Hyde Pk.	516-593-2628

ELECTRONIC RESEARCH ASSOCS INC
50 GRAPHIC PL MOONACHIE
NJ 07074 TWX /10-990-5064 201-641-3650
J APELIAN EMP 150 ENG 10 \$5,000-\$10,000K

ELECTRONIC RESOURCES DIV		
WHITAKER CORP 100 E TUJUNGA		
AVE BURBANK CA 91502		
TX	910-498-2751	818-843-5770
G	FUBANKS EMP 140 ENG 33 \$5,000-\$10,000K	

ELECTRONICS BOOKS BOX 541		
HIGHTSTOWN NJ 08520		
R	McGraw-Hill Intl Pub Co	609-426-5070
	Maidenhead Berk UK	0628-23421

ELECTRONICS CORP OF AMERICA		
265 WINTER ST WALTHAM		
MA	02154 TWX 710-320-0359	617-466-8000
S	DAVIS EMP 650 ENG 30 OVER \$10,000K	
CA	ECA 8 Adrian Ct Burlingame	415-692-1714
CA	ECA 11060 Artesia Bl Cerritos	213-402-2406
CA	ECA 340 Interstate N Atlanta	404-955-0952
CA	ECA 2625 Butterfield Oakbrook	312-920-8400

NJ	ECA 600 Washington Av Carlstadt	201-460-0424
OH	ECA 14600 Detroit Av Cleveland	216-521-2212
PA	ECA 3370 Progress Bensalem	215-245-0211
TX	ECA 8554 Katy Fwy Houston	713-932-1268

ELECTRONICS DIVERSIFIED INC		
3858 N 50 ST PHOENIX		
AZ	85018	602-840-5490
J	MICHEL EMP 3 ENG 1	
AZ	Power-Rex Box 27929 Tempe	602-967-4866

ELECTRONICS INC 1520 N MAIN ST		
MISHAWAKA IN 46545		
J	CHAMPAIGNE EMP 10 ENG 2 \$250-\$500K	219-256-5001
IL	George Pettit Co	312-261-0342

DISTRIBUTORS		
CA	Meter Master Palo Alto	415-968-0313
CO	Meter Master Denver	303-722-5766
IL	Meter Master Elk Grove Vlg	312-593-8650
IL	Pacific Indicator Oak Park	312-383-0220
IN	Graham Electronics Ft Wayne	800-622-4814
IN	Pioneer Electronics Indpls.	800-382-5503
KY	Alfa Controls Louisville	502-426-2862
NY	ELC Rochester	716-544-4392
OH	Meter Master Cleveland	216-651-4100
OH	Cubledge Controls Toledo	419-535-5530
WI	E-M Instrument Milwaukee	414-272-7799
FR	Electro-Design Lachine PQ	514-636-4838

ELECTRONIC SOLUTIONS 9255
CHESAPEAKE DRIVE SAN DIEGO
CA 92123 TWX 910-335-1169 714-292-0242
C CARLSON EMP 100 ENG 15

AL	Currie Peak & Frazier Huntsville	205-536-1506
AZ	Trembley Assoc Tempe	602-967-2058
CA	Mesa Engrg San Diego	714-278-8021
CA	Qualtech South Thousand Oaks	805-495-7100
CA	Qualtech South Los Angeles	213-388-3707
CA	Qualtech South Orange	714-639-9820
CA	Qualtech North Concord	415-680-1800
CA	Qualtech North Sunnyvale	408-732-4800
CO	Trembley Assoc Wheatridge	303-421-8900
CT	Ta Squared Stamford	203-327-2934
FL	Currie Peak & Frazier Orlando	305-855-0843
FL	Currie Peak & Frazier Melbourne	305-724-6795
FL	Currie Peak & Frazier Tampa	813-963-1076
GA	Currie Peak & Frazier Atlanta	404-476-3107
GA	Currie Peak & Frazier Norcross	404-449-7662
IL	Mar-Con Assoc Skokie	312-675-6450
IA	Beams Co Des Moines	515-255-1148
KS	Beams Co Shawnee Mission	913-631-0300
MD	Spectro Assoc Rockville	301-279-2010
MA	Ta Squared Framingham	617-875-3586
MI	Lowell Wendt Livonia	313-464-2722
MI	Micro Resources Edina	612-830-1454
MO	Beams Co St Louis	314-434-8448
NJ	Gebhardt Mktg Inc Springfield	201-376-4415
NM	Trembley Assoc Albuquerque	505-266-8616
NC	Currie Peak & Frazier Greensboro	913-373-0380
NC	Currie Peak & Frazier Charlotte	704-542-0673
NC	Currie Peak & Frazier Raleigh	919-787-0808
OH	Geotronics Inc Cleveland	216-526-2535
OH	Geotronics Inc Trotwood	513-252-6700
OK	Acudata Inc Stillwater	405-743-1886
OR	Thorson Co NW Beaverton	503-644-5900
PA	Monument Tech Assoc Jenkintown	215-884-3737
TN	Currie Peak & Frazier Nashville	615-366-4009
TX	Acudata Houston	713-580-2451
TX	Acudata Inc Plano	214-424-3567
TX	Acudata Inc Austin	512-478-1018
UT	Trembley Assoc SLC	801-486-5292
WA	Thorson Co NW Bellevue	206-555-1180
WI	Computer & Sys Sales Waukesha	414-544-1141
FR	Allan Crawford Assoc Mississauga ON	416-890-2010
FR	Allan Crawford Assoc Ottawa ON	613-596-9300
FR	Allan Crawford Assoc St Laurent PQ	514-731-8564
FR	Allan Crawford Assoc Calgary AB	404-291-3417
FR	Allan Crawford Assoc Dartmouth NS	902-463-8640
FR	Allan Crawford Assoc Burnaby BC	604-294-1326
FR	Allan Crawford Assoc Edmonton AB	403-451-4893

DISTRIBUTORS

CT	Pilgrim Electronics Danbury	203-792-7274
ELECTRONIC SPACE SYSTEMS CORP		
OLD POWDER MILL RD CONCORD		
MA	01742 TWX 92-3480	617-369-7200
S	CUEVAS EMP 85 ENG 10 \$5,000-\$10,000K	

ELECTRONIC SURFACE COATINGS
SUB TANURY INDUSTRIES
6 NEW ENGLAND WAY LINCOLN
RI 02865 401-343-9400
S DOLAN EMP 20 ENG 1 \$500-\$1,000K

ELECTRONICS SURVEILLANCE		
COMPONENTS INC 991 COMMERCIAL		
ST PALO ALTO CA 94303		
EMP 5 ENG 2 \$100-\$250K		
CA	L & M Engrg Inglewood	213-674-6850
CA	MC Assoc San Jose	408-446-4100
IL	Cain-Forlaw Co Mt Prospect	312-253-3578
MD	Stermer Assoc Baltimore	301-944-8262
MA	McBar Assoc Waltham	617-890-0233
TX	Scientific Devices SW Richardson	214-231-8106
WI	Datacom Assoc Seattle	206-285-2525
FR	Western Intl Trade Corp Palo Alto CA	415-321-1240

ELECTRONICS WAREHOUSE INC
BOX 624 OLD LYME CT 06371 203-434-9838
R KARMAZU EMP 9 ENG 2

ELECTRONIC SYSTEMS TECHNOLOGY		
1031 N KELLOGG ST KENNEWICK		
WA	99336 TWX 152514	509-735-9092
T	KIRCHNER	

ELECTRONIC TOOL CO INC		
101 CASTLETON PLEASANTVILLE		
NY	10570 TWX 646334	914-769-8070
A	MAHONY EMP 16 \$1,000-\$2,500K	
CA	Electro Mech Sales	714-459-7005
MD	Walker/Houck Assoc	301-296-6021
NY	ETCO	914-769-8070
PA	W F Assoc	215-567-1622
FR	J Zayas Rio Riedras PR	809-763-2512

ELECTRONIC TRANSFORMER CORP		
BOX 188 TOTOWA NJ 07511		
C	MARKOWITZ EMP 120 ENG 4 \$2,500-\$5,000K	201-942-2222
OH	R N Smith Co Dayton	513-434-4833

ELECTRONIC TREND PRODUCTS
10080 N WOLFE RD CUPERTINO
CA 95014 TWX 4993456 408-996-7401
G SELVEN EMP 3 ENG 2

ELECTRONIZED CHEMICALS CO		
23 INDUSTRIAL WAY WILMINGTON		
MA	01887 TWX 68-17284	617-657-8030

ELECTRO NUMERICS INC 1811
REYNOLDS ST IRVINE CA 92714
TXW 68-5612 714-250-1501
P BÉAUDOIN EMP 24 ENG 3 \$1,000-\$2,500K
ADV PG 271

AZ	Sheffer-Kahn Co Phoenix	602-257-9015
CA	Brooks-Moore & Assoc Santa Ana	714-544-8900
CA	Wm Parks Assoc Fremont	415-796-0875
CO	Herb Bass Assoc Boulder	303-530-7509
CT	Di-Ana Sales Co Meriden	203-235-3393
GA	Zelco Assoc Acworth	404-974-8647
IL	PVA Corp La Grange	312-579-9300
KS	R E Pedrotti Co Shawnee Mission	913-677-3366
KY	Instrument & Tech Sys Louisville	502-244-1498
LA	Kemp Eng Co Lafayette	318-269-9452
MD	Beacon North Randallstown	703-591-1300
MA	Di-Ana Sales West Newbury	617-363-5420
MI	Satullo Co Royal Oak	313-549-3910
MN	Kits Co Hopkins	612-933-1888
NH	Di-Ana Sales Co Randolph	603-466-3996
NM	Sheffer-Kahn Co Albuquerque	505-345-3591
NY	Metropolitan Sales Co Brooklyn	718-336-7600
NC	Zelco Assoc Matthews	704-541-6122
OK	Golden Rule Sales Co Claremore	918-266-3663
OR	Top Engrg Sales Portland	503-244-7265
PA	Measurements Instr East Blairsville	412-459-8090
TN	Instrument & Tech Sys Oak Ridge	615-483-5715
TX	EV Smith Sales Co Houston	713-649-5756
UT	Herb Bass Assoc Bountiful	801-295-7100
VA	Beacon North Fairfax	703-591-1300
WA	Top Engrg Sales Bellevue	206-747-5400
WI	Stapleman Corp Glendale	414-352-5777
FR	A D Smart Ltd Markham ON	416-474-0550
FR	ADM-Electronics Augwil-Kloten	01-814-2552
FR	M.A.I.R. Boulogne	1-4604-81-11
FR	Ginsbury Elctns Ltd Kent	634-719821

DISTRIBUTORS		
AZ	Meternaster Phoenix	602-437-1425
CA	Western Elec Sply Glendale	818-246-4861
CA	Meternaster LA	213-685-4340
CA	Meternaster Palo Alto	415-960-8500
CA	Meternaster San Diego	619-560-4841
CA	Standard Meter Labs Dublin	415-828-4837
GA	Meternaster Norcross	404-446-0166
IL	Meternaster Itasca	312-250-0606
MI	Ram Meter Inc Ferndale	313-398-6767
NJ	Howan Controls Edison	201-985-7474
OH	Meternaster Cleveland	216-651-4100
TX	Meternaster Garland	214-271-5671

ELECTRO-OPTICAL INDUSTRIES INC
BOX 3770 SANTA BARBARA
CA 93103 TWX 658-427 805-964-6701
J LANSING EMP 140 ENG 15 \$2,500-\$5,000K

ELECTRO-PACIFIC INC 5770		
THORNWOOD DR GOLETA CA 93117		

MN Peterson Sales & Assoc Mnpls..... 612-944-0030
TX Technical Processes Co Dallas..... 214-352-3957

ELECTRO SCIENTIFIC INDUSTRIES INC
13900 NW SCIENCE PARK DR
PORTLAND OR 97229
TWX 474-2064..... 503-641-4141
S GRESSEL EMP 950 ENG 69 OVER \$10,000K

CA T White San Jose..... 408-243-8700
CA G Ingretson Escondido..... 619-741-9717
FL B Minner Orlando..... 305-898-3589
GA J Fedon Roswell..... 404-998-0545
IN D Goad Greenwood..... 317-882-5509
MN T Goodnow Mnpls..... 612-870-9192
NH G Nightingdale Nashua..... 603-886-5744
NJ J Alpaugh Mt Laurel..... 609-235-2474
NC G Gasque Cary..... 919-481-0058
NC P Fugger Cary..... 919-481-0058
CA C Molitor Sewickley..... 412-255-1577
TX D Dickinson Plano..... 214-867-4647

ELECTROSHIELD INC 708 S
HIGH ST BOX 289 YELLOW SPRINGS
OH 45387..... 513-767-1054
J LEUBA EMP 9 ENG 1

ELECTRO SPACE FABRICATORS INC
W HIGH ST TOPTON PA 19562..... 215-682-7181
T ROTH EMP 225 ENG 6 OVER \$10,000K

AL Mackay, Smith & Assoc Huntsville..... 205-539-8000
CA Silicon Valley Sales San Jose..... 408-286-7510
CA Vale Elect Assoc Irvine..... 714-551-4004
CT Betronics Bridgeport..... 203-374-6404
FL Jack Krutek & Assoc Lighthouse Pt..... 305-941-6544

FL Mackay, Smith & Assoc Orlando..... 305-277-1513
GA Mackay Smith & Assoc Norcross..... 404-449-7444
IL Raines & Assoc Northbrook..... 312-498-0890
MD Imagitron Sales Co Pikesville..... 800-638-3592
MA Betronics Waltham..... 617-894-8400
MN Jen-Ray Systems Mnpls..... 612-831-5060
NJ Winter Assoc Boonton..... 201-334-3434
NY Promark Elctns Morrisville..... 315-662-3210
NC Mackay Smith & Assoc Charlotte..... 919-467-5400
OH J R Bright Gallion..... 419-468-3787
PA Monterio Assoc Doylestown..... 215-345-5855
PA Ecco Elctn Sales McKean..... 814-476-1376
TN Mackay, Smith & Assoc Chattanooga..... 615-899-6951
VA Imagitron Sales Co Pikesville..... 800-638-3592
WA Electronic Sales NW Auburn..... 206-839-5808
WI Raines & Assoc Northbrook..... 312-498-0890

ELECTROSPACE SYSTEMS INC
1601 N PLANO RD BOX 831359
RICHARDSON TX 75081
TWX 910-867-4768..... 214-783-2004
D HEITZMAN EMP 1600 ENG 600 OVER \$10,000K

CA R F Watkins Newbury Park..... 805-498-9733
FL J E Averill Orlando..... 305-273-3310
MA A E Dudevior Acton..... 617-861-6009
NJ T J Kesolits Holmdel..... 201-264-5958
OH TG Farrell Fairborn..... 513-878-6149
VA Electrospace Arlington..... 703-979-1220

ELECTRO STANDARDS LAB INC
BOX 9144 PROVIDENCE RI 02940
TWX 697-2057..... 401-943-1164
EMP 25 to 35 ENG 5 \$1,000-\$2,500K

CA Driscoll Associates Novato..... 415-883-0353
CA A Datacom Solution Cypress..... 213-402-2666
CT Northern Computer Sales Co Goshen..... 203-491-3585
NJ Star Technical Sales Co Livingston..... 201-992-7827
NM Sota-Com Inc Las Cruces..... 505-523-4480
PA J E Cuesta & Co Valley Forge..... 215-265-5800
TX Northern Computer Sales Co Westwood..... 617-326-3454

ELECTROSTATICS INC 7718
CLAIREMONT MESA BLVD SAN DIEGO
CA 92111..... 619-279-1414
R MCCARTNEY EMP 17 ENG 2 \$500-\$1,000K

ELECTROSWITCH 180 KING AVE
WEYMOUTH MA 02188
TWX 710-388-0377..... 617-335-5200
W MELLO EMP 330 ENG 18 OVER \$10,000K

AZ Howe & Howe Sales Phoenix..... 602-264-7971
CA Willard Nott & Co Moraga..... 415-376-1922
CA Wiley Co Los Angeles..... 213-666-1611
FL Floritronics Inc Winter Park..... 305-886-4818
IL Electro Switch Corp Elk Grove Vlg..... 312-593-2225
MD Naudain Assoc Gathersburg..... 301-258-5040
MI Hilltronics Ferndale..... 313-398-5556
MN Kencotronics Co St Paul..... 612-645-7717
MO H J Weisler & Assoc Ellisville..... 314-394-4543
NJ Naudain Assoc Marleton..... 609-983-5300
NY Electro Switch Corp Fairfield..... 201-227-6559
NY Sweetco Assoc Rochester..... 716-225-2383
NC L G White Southern Winston-Salem..... 919-725-3612
OH Rockford Controls Ohio Euclid..... 216-731-5250
PA Russell F Clark Co Inc Pittsburgh..... 412-242-9500

TX Brice Co Bellaire..... 713-666-1788
WA C B Parsons & Co Kent..... 206-762-7373
WI Larsen Assoc Wauwatosa..... 414-258-0529
FR George M Fraser Ltd Scarborough..... 416-298-0008

DISTRIBUTORS
CA Electric Switches LA..... 213-660-1310
CA Pacific Elec Supply San Jose..... 408-942-1166
FL Peerless Radio Corp Ft Lauderdale..... 305-973-4141
GA Georgia Control Ctr Atlanta..... 404-876-8833
IL Midco Component Sales Bridgeview..... 312-599-7777
MD Marine Air Supply Kensington..... 301-949-9560
MA Adcour Sharon..... 617-784-8123

MI S-F Elect Supply Grand Rapids..... 616-459-0216
MN KDI St Paul..... 612-645-7717
MO Industrial Service Labs St Louis..... 314-535-5760
NY Electronic Equip Co Hempstead..... 212-368-5510
OH General Products Kernersville..... 919-725-3612
OH Rockford Controls Euclid..... 216-731-5250
OK N Ison Elec Supply Tulsa..... 918-583-1212
PA I/O Elec Supply Conshohocken..... 215-825-4610
TX Barclay Wholesale Bellaire..... 713-666-1788
WA C B Parsons Co Kent..... 206-762-7373
WV State Electrical Supply Co Huntington..... 304-523-7491
WI I/O Elec Supply Milwaukee..... 414-963-9050

ELECTRO-TEC CORP 1600 N MAIN ST
BLACKSBURG VA 24060
TWX 710-875-3698..... 703-552-2111
J DALY EMP 290 ENG 35

CA CoDella Mktg Group Cupertino..... 408-257-2561
FL Magna Eng Sales Orlando..... 305-671-8716
GA Magna Eng Sales Atlanta..... 404-452-3365
IL Magna Eng Sales Co Collinsville..... 618-345-5583
KS Magna Eng Sales Wichita..... 316-744-0851
NJ S H Lagerfeld Assoc Wayne..... 201-790-1714
TX Magna Eng Sales Dallas..... 214-386-9747
WA Magna Eng Sales Co Issaquah..... 206-392-9155

ELECTROVERT INC INDUS ELEC
& ELCTN PRODS 399 EXECUTIVE
BLVD ELMFORD NY 10523
TWX 646186..... 914-592-7322
A CHIARELLO EMP 50

ELECTRO-VOICE INC SUB GULTON
INDUSTRIES 600 CECIL
ST DEPT EBG BUCHANAN MI 49107
TWX 810-270-3135..... 616-695-6831
P MCQUIRE EMP 760 ENG 60 OVER \$10,000K

CA Radon & Assoc Mill Valley..... 415-383-8877
CA Western Audio Sales Glendale..... 818-246-3806
CO Silver Peak Mktg Ltd Lakewood..... 303-233-8577
CT Smith Co Hartford..... 203-623-0512
FL Sprock Sales Fort Lauderdale..... 305-587-3792
GA Wilson Audio Sales Roswell..... 404-993-2366
IL Audio Resources Westmont..... 312-655-1180
IN Audio Resources Indpls..... 317-783-4123
KS B C Elect Sales Kansas City..... 913-342-1104
LA Dick Bellow Sales Metairie..... 504-386-6105
MD R J Mktg Ltd Rockville..... 301-251-0330
MI Riley & Petchell Sales Detroit..... 313-937-3000
MN Audio Resources Plymouth..... 612-559-4837
MO B C Electronic Sales Bridgeton..... 314-291-6776
NJ New Breed Assoc Edison..... 201-225-0085
NM Silver Peak Mktg Ltd Albuquerque..... 505-298-6384
OH C L Pugh & Assoc Columbus..... 614-486-9678
PA Geo M Conneen Co Springfield..... 215-544-5884
TN Wilson Audio Sales Nashville..... 615-356-0372
TX Dick Bellow Sales Inc Dallas..... 214-373-4590
WA Loppnow & Assoc Redmond..... 206-883-3205
WI Audio Resources Milwaukee..... 414-265-9197

ELECTROWEAVE INC 425 SHREWSBURY
ST WORCESTER MA 01604
TWX 710-340-0635..... 617-752-8932
EMP 15 ENG 3 \$2,500-\$5,000K

ELEKTRISOLA BOX 386 NEWPORT
RI 02840..... 401-846-5760
J PAECH EMP 10 OVER \$10,000K

ELEVAM CORP 17-8 2-CHOME CHUO
OHTA-KU TOKYO JAPAN
TWX 246-8855..... 03-774-1231
Y MIYATA EMP 100 ENG 20 OVER \$10,000K
ADV PGS 237,432

DISTRIBUTORS
CA JKL Components Corp Pacoima..... 213-896-0019
IL Lumex Opto/Components Inc Palatine..... 312-359-2790

ELEXOR ASSOCIATES BOX 246
MORRIS PLAINS NJ 07950..... 201-299-1615
T SLIFKIN EMP 10 ENG 3

ELFAB CORP BOX 810555 DALLAS
TX 75381 TWX 910-860-5460..... 214-233-3033
K DYE EMP 300 OVER \$10,000K
Elfab Corp... USA Toll Free... 800-527-0753

ELGAR CORP AN ONAN OPERATING UNIT
9250 BROWN DEER RD SAN DIEGO
CA 92121 TWX 211063..... 619-450-0085
L CAMPBELL EMP 370 ENG 15 OVER \$10,000K
ADV PGS 337

AL Pen Tech Assoc Huntsville..... 205-881-9298
AZ Trembley Assoc Tempe..... 602-967-2058
CA Ward Davis Assoc Redondo Bch..... 213-643-6977
CA Ward Davis Assoc Santa Clara..... 408-245-3700
CT Trembley Assoc Wheatridge..... 303-421-8900
CT Pat Jenks Assoc Wallingford..... 203-265-9939
FL Pen Tech Assoc Casselberry..... 305-678-6809
GA Pen Tech Assoc Marietta..... 404-424-1931
IL Dytec Central Arlington Hts..... 312-394-3380
IN Dytec Central Indpls..... 317-247-1316
KS Dytec South Lenexa..... 913-888-0215
MD Electronic Mktg Assoc Rockville..... 301-881-5300
MA Pat Jenks Assoc Woburn..... 617-938-0488
MI WKM Assoc Madison Hts..... 313-588-2300
MN Berndt Assoc Mnpls..... 612-546-2021
MO Dytec South Maryland Hts..... 314-569-2990
NV Trembley Assoc Las Vegas..... 702-739-9770
NY Naco Electronics N Syracuse..... 315-699-2651
NY Naco Electronics Utica..... 315-699-2651
NY RTI Great Neck..... 516-829-3770
NC Pen Tech Assoc Greensboro..... 919-852-6000
OH WKM Assoc Independence..... 216-524-5930
OK Data Aids Assoc Edmond..... 405-478-5000

PA Electronic Mktg Assoc Plymouth Mtg..... 215-828-7400
PA WKM Assoc Pittsburgh..... 412-892-2953
TX Data Aids Assoc The Woodlands..... 713-363-3838
UT Trembley Assoc SLC..... 801-486-5292
WA Northwest Test & Msmnt Redmond..... 206-881-8857
WI Dytec Central Elm Grove..... 414-784-9688
FR Electrical Power Plant Mntnce Levittown PR..... 809-795-5345

ELGENCO INC BOX 460 HURRICANE
UT 84737..... 801-635-4954
D BETCHER
ADV PG 201

CA Windsor Dynamics Inc Box 5500 Sherman Oaks..... 213-990-4111
CA N-S Assoc 195 Greer Rd Woodside..... 415-354-4811
CT Polytek Assoc 2381 Whitney Av Hamden..... 203-288-5246
MA Polytek Assoc 224 Cordaville Rd Ashland..... 617-881-4741
NJ Holdsworth & Co Box 301 Marmore..... 609-398-4340
NM Technology Mktg Assoc 6800 Academy Pkwy W NE Albuquerque..... 505-345-8921
PA Holdsworth & Co Box 298 Newtown Sq..... 215-356-8550

ELGIN ELECTRONICS 5533
NEW PERRY HWY. ERIE PA 16509
TWX 510-899-6870..... 814-864-4921
C SEARLES EMP 600 ENG 31 OVER \$10,000K

CA T Day San Mateo..... 415-579-1510
GA A Pound Lilburn..... 404-584-2838
IL W Fox Chicago..... 312-399-5506
MA T Spino Framingham..... 617-872-4220
NJ R Pittfield Fort Lee..... 201-592-5882
PA R Borgia Erie..... 814-864-4921
TX V Roach Dallas..... 214-851-3548

ELGIN PRECISION GLASS INC
1200 S ABBOTT DR ELGIN
IL 60120..... 312-931-1200
S STEINIS EMP 125 ENG 10

E & L INSTRUMENTS INC 70
FULTON TERR NEW HAVEN
CT 06512 TWX 710 4651227..... 203-624-3100
F GREGORIO EMP 90 ENG 7 \$5,000-\$10,000K

CA Technical Education Svcs Saugus..... 805-255-5560
CO Bill Newman & Co Wheat Ridge..... 303-425-9501
CT Electronic Mktg Woodbridge..... 203-397-1460
FL D C Jaeger Co Winter Pk..... 305-645-1501
GA Learning Labs Calhoun..... 404-629-4662
IL Aides Corp Downer's Grove..... 312-963-4271
IA Gleb Klein Co Marion..... 319-393-4040
LA SIVAD Inc Baton Rouge..... 504-924-3441
MI Close Inc Plymouth..... 313-453-7576
MN L.A.B. Corp Afton..... 612-436-1161
MS SIVAD Inc Jackson..... 601-355-3131
MO Advanced Educ Syst Columbia..... 314-474-4441
NJ Shortess Rawson Co Springfield..... 201-276-2522
NY RJT Assoc Franklin Square..... 516-354-2988
OH Rixan Assoc Dayton..... 513-222-0011
PA Shortess Rawson Souderton..... 215-723-8731
TN Tech Lab Assoc Sante Fe..... 615-682-2500
TX Technical Lab Sys Houston..... 713-465-9799
VA Diversified Educational Systems Berryville..... 703-955-2781

WA Interactive Training Inc Seattle WA..... 206-243-6901
WI L.A.B. Corp Wauwatosa..... 414-258-6410
FR Merlan Scientific Georgetown ON..... 416-877-0171
FR Cardinal Ind Elctns Edmonton AB..... 403-483-6266
FR Merlan Scien Ltd W Burnaby, BC..... 604-291-6911

ELLIOTT MFG CO INC B W
1069 PROSPECT AVE BINGHAMTON
NY 13902 TWX 705743..... 607-772-0400
W NORTON EMP 86 ENG 3 \$1,000-\$2,500K

ELLIS CO INC CH 2432 SOUTHEASTERN
AVE INDIANAPOLIS IN 46206..... 317-636-3331
R HOLWICK EMP 100 ENG 3 \$2,500-\$5,000K

AL Adams & Assoc Clay..... 205-681-5161
AR Erickson Sales Inc Little Rock..... 501-225-3737
CA Sierra Pacific Engrg Tustin..... 714-731-3411
CT MacInnis Co Branford..... 203-481-4336
FL Adams & Assoc Orlando..... 305-855-7341
GA Adams & Assoc Marietta..... 404-973-0854
IL L & B Assoc Lake Zurich..... 312-438-7911
LA Erickson Sales Inc Chalmette..... 501-271-1971
MA Mac Innis Co Norwood..... 617-762-8091
MA A-Line Tool Co Lawrence..... 617-686-0929
MN North Port Engrg Inc So St Paul..... 612-457-8000
NJ Henry G Richter Co Mountaintide..... 201-233-4611
NY Henry G Richter Inc Fayetteville..... 315-637-6711
NC Adams & Assoc Greensboro..... 919-272-6871
OH Denco Ind Prods Vermilion..... 216-967-6116
OK Erickson Sales Inc Okla City..... 405-682-2946
TX Erickson Sales Inc Dallas..... 214-739-5833
WI C H Ellis Co LaGrange..... 312-354-0488

DISTRIBUTORS
AZ B H & B Sales Phoenix..... 602-269-706
CA RGB Electro Indus Santa Clara..... 408-980-130
CA Tool Kit Specialties Sunnyvale..... 408-745-602
CO Tecra Tool Englewood..... 303-789-4111
IL Distribution Inc Niles..... 312-966-563
IL Joseph Electronics Niles..... 312-297-420
MA Kaufman Co Cambridge..... 617-491-5550
PA Techni-Tool Plymouth Mtg..... 215-825-4999
TX Specialized Prods Dallas..... 214-358-466
TX Roy E Davis Co Dallas..... 214-653-1064

ELMA DIV SANDBERG IND INC
1851 REYNOLDS AV IRVINE
CA 92714 TWX 910-595-2767..... 714-261-947
D HALVERSON EMP 100 ENG 5 \$2,500-\$5,000K
CA S Wood Santa Clara..... 408-970-887
CT T Bretz Bethel..... 203-797-971

ELMA ENGINEERING 1066 E MEADOW CIR PALO ALTO CA 94303	
TWX 345-560	415-494-7303
T BENO EMP 50 ENG 5 \$1,000-\$2,500K	
CA Banes Associates	714-730-6355
CO Chinoak Sales	303-090-0400
CT Godfrey & Associates	203-928-0332
FL N Morgan	304-724-9320
GA Stoughton & Associates	404-255-9279
IL Aloha Assoc.	808-941-1574
IL C-Mac Associates	312-687-8350
MI Ben Thomas Sales	313-373-9332
MN Electro-Midwest	612-633-4142
MS Engineering Sales	601-366-4409
NY Trautmann Assoc.	914-928-9431
NY Engineered Equipment	212-362-7112
OH Robert Howley Co	216-967-8778
OK Electrical & Instrument Sales	918-664-0980
OR United Sales Assoc.	503-620-6960
PA Elect Dist Prod.	215-968-8628
SC Bruster, Lawing & Assoc.	803-831-1205
TX Titan Reqs. Inc.	214-241-1398
UT Anderson Mills	801-451-2429
VA Marketing Services Intl.	703-356-2214
WI Conrardy & Co.	312-692-2226

ELMAG CORP 54 CLARK ST NEWARK NJ 07104	201-481-1600
R BLACK EMP 25 ENG 2 \$250-\$500K	
OH Irving Atkind & Assoc Dayton	513-278-4160

ELMA SWITCH CORP 1851 REYNOLDS AVE IRVINE CA 92714	
TWX 910-595 2767	714-261-0160
ELMEC TECHNOLOGY OF AMERICA INC 650 S GARFIELD AVE MONTEREY PARK CA 91754	818-307-1669

ELM SYSTEMS 1101 BROWN ST WAUCONDA IL 60084	312-526-5003
G PARRIOTT EMP 17 ENG 2 \$1,000-\$2,500K	
IL Engineered Sales Co Addison.	312-832-8425

ELMWOOD SENSORS INC 500 NARRAGANSSETT PK DR PAWTUCKET RI 02861 TWX 710-381-6413	401-727-1300
G POLKOW EMP 800 ENG 30 OVER \$10,000K	
AL Tenn Tech Sales Decatur	205-350-0630
AZ O'Donnell Assoc Phoenix	602-944-9542
CA O'Donnell Assoc San Jose	408-263-6500
CA O'Donnell Assoc Torrance	313-539-9664
CO Front Range Mktg Boulder	303-443-4780
FL CBC Electronics Coral Springs	305-755-1111
GA Tenn Tech Sales Atlanta	404-428-9594
IL Thermeck Arlington Hts.	312-577-6900
IN O H Bromberg Assoc Ft Wayne	219-456-6010
KY O H Bromberg & Assocs Louisville	502-245-8916
MD Faber Renoff Glen Burnie	301-768-4554
MA C H Burnham Assoc Danvers	617-774-0111
MI Engineered Components Brooklyn	517-592-3236
MI Carl A Listug Sales Co Mnppls.	612-537-6740
MO Hill & Co Creve Coeur	314-432-1136
NH C H Burnham Assoc Durham	603-868-2282
NY Canavan-Scanlon Assoc E Syracuse	315-437-1271
NY G M Moch Co Larchmont	914-834-3530
NY Bastian Sales Agency Fairport	716-223-0237
NC Tenn Tech Sales Raleigh	919-266-3610
NC Allied Enterprises Cleveland	216-779-0080
OH O H Bromberg & Assoc Cincinnati	513-771-9333
OK Ion Assoc Tulsa	918-664-0186
PA Omega Elctn Sales Huntingdon Valley	215-947-4135
PA Allied Enltns Murrysylvle	412-325-3200
RI C H Burnham Assoc Johnston	401-231-7475
TX Ion Assoc Grand Prairie	214-647-8225
UT Front Range Mktg SLC	801-364-6481
VA D E Boehling & Assoc Midlothian	804-794-5879
VA Temco Northwest Bothell	206-821-5434
WA Lehr Assoc Bellevue	206-453-9993
WI R C Ziegler Milwaukee	414-351-5005
FR Andy Baumen Assoc Ltd Mississauga ON	416-828-2600

ELNA AMERICA INC 153 E SAVARONA WAY CARSON CA 90746	
TWX 910-346-6730	213-327-6090
R WEBB EMP 15 ENG 2 \$5,000-\$10,000K	
AL Hughes Assoc Huntsville	205-533-9108
CA ATA Assoc San Clemente	714-498-7180
CA Logan Sales Santa Clara	408-496-0660
CO R G Enterprises Boulder	303-447-9211
FL Fralia Co Bedford TX	810-354-1144
IL Greenslade Sales Arlington Hts	312-593-3450
MI Today Comp Sales Stow	617-897-7500
MI R C Nordstrom Co Lathrup Vlg	313-559-7373
MI S A I Mktg Corp Brighton	313-227-1785
MN Murnco Inc Bloomington	612-854-4161
MS S L Welch & Assoc Jackson	601-932-5534
MO Thomas Dowell St Louis	314-849-4234
NJ Ventronics Kenilworth	201-272-9262
NC DHR Marketing Raleigh	919-781-1961
OR Leahy Assoc Portland	503-645-5924
PA Metz-Benham Assoc Wynnewood	215-896-7300
TX Alexander Enltns El Paso	915-591-3142
FR Pipe-Thompson Ltd Islington	416-236-2355

DISTRIBUTORS	
AZ Arizona Components Phoenix	602-269-5655
CA EW Elect Van Nuys	818-782-9020
CA ISC Santa Clara	408-496-0411
CA Ital Sales Industry	818-968-8515
CA Prime Electro Manhattan Bch.	213-379-3642
CA Cal Cap Santa Clara	408-980-8495
CT J V Elect East Haven	203-469-2321
IL GBL Elect Elk Grove	312-593-3220
IN PEI/Genesis South Bend	219-287-2911
MA T L C Inc Burlington	617-273-0140
MA Greene-Shaw Co Newton	617-969-8900
MN Gopher Elect St Paul	612-483-4450

NJ Mu-Tronics Kenilworth	201-272-3450
NC Kirkman Elec Winston Salem	919-722-9131
TX Altair Co Richardson	214-231-5166
FR Saynor Elect Don Mills ON	416-445-0723

ELNIK INSTRUMENTS INC 3 EDISON PL FAIRFIELD NJ 07006	
TWX 133429	201-882-8033
EMP 8 ENG 2 \$500-\$1,000K	

ELOGRAPHICS INC 105 RANDOLPH RD OAK RIDGE TN 37830	615-482-4100
R HIGHFILL EMP 75 ENG 5	
CA Sedillo Co Campbell	408-374-5220
CO Westek Data Products Denver	303-237-5001
GA E G Holmes & Assoc Chamblee	404-451-6161
MD Spectro Assoc Rockville	301-294-9770
MA Centennial Sales Co Wayland	617-358-5161
MO Digital Systems Sales Grandview	816-765-3337
NY Radiation Elctns Port Chester	914-937-2300

ELPAC COMPONENTS 3131 S STANDARD AVE SANTA ANA CA 92705 TWX 910-595-1513	714-979-4440
G BENHARD EMP 200 ENG 5 \$2,500-\$5,000K	
AZ Sunwest Mktg Tempe	602-838-7586
CA Wes-K Assoc Van Nuys	213-989-3070
CA Exis Inc San Jose	408-287-6680
CO Wescom Mktg Wheat Ridge	303-422-8957
FL OEM Marketing Orlando	305-299-1000
IL Bransky Sales Highland Pk	312-433-2375
MA Todino Eng Sales Needham Hts	617-444-7925
MI J C Hofstetter Co Birmingham	313-646-3635
MN Smiley-Scott Assoc Mpls.	612-888-5551
NJ Harold Gray Assoc Englewood	201-894-0894
OH J C Hofstetter Co Dayton	513-296-1010
OK Mechtrom Mktg Richardson	214-437-4833
TX Mechtrom Mktg Houston	713-462-1432
WA Harry Levinson Co Seattle	206-382-1300

DISTRIBUTORS	
AZ TTI Phoenix	602-861-0222
CA MIL-COMM Chatsworth	213-998-3111
CA Kelex Irvine	714-863-1230
CA TTI San Jose	408-943-9155
FL TTI Orlando	305-859-1000
IL Kellner Elec Skokie	312-677-1120
MA Aved Electronics Wilmington	617-657-8311
OH Electro Supply Dayton	513-299-5020
OK Altair Tulsa	918-252-5781
TX Altair Houston	713-462-3029
TX Captronics Inc Dallas	214-340-3592
TX TTI Ft Worth	817-429-1440
TX Captronics Austin	512-459-4320
WI Taylor Elec Dist Mequon	414-241-4321

ELPAC POWER SYSTEMS 3131 S STANDARD AVE SANTA ANA CA 92705 TWX 910-595-1513	714-979-4440
B TOVAAS EMP 250 ENG 5 OVER \$10,000K	
AL K & E Assoc Huntsville	205-883-9720
CA Westrep Santa Clara	408-988-8833
CA Westrep Anaheim	714-527-2822
FL SEMI Casselberry	305-831-2822
GA K & E Assoc Doraville	404-448-7025
IL Bransky Sales Highland Pk	312-433-2375
MA Newscoff Co Needham Hts	617-444-1923
MN Electromec Sales Burnsville	612-894-8200
NJ Imagitron Sales Marlton	609-983-0897
OH F J Campisano Cincinnati	513-574-7111
FR ECS Tigard	503-245-2342
WA ECS Mercer Island	206-232-9301

DISTRIBUTORS	
CA Marshall Ind El Monte	213-442-7204
CA Marshall Ind Canoga Park	213-999-5001
CA Marshall Ind Irvine	714-556-6400
CA Marshall Ind San Diego	619-578-9600
CA Marshall Ind Sunnyvale	408-732-1100
CT Marshall Ind Wallingford	203-265-3822
FL Marshall Ind Orlando	305-841-1878
GA Marshall Ind Norcross	404-923-5750
IL Classic Comps Northbrook	312-272-9650
IL Newark Elect Chicago	312-638-4411
IL Marshall Ind Schaumburg	312-490-0155
MD Marshall Ind Gaithersburg	301-840-9450
MA QPL Elect Distb Burlington	617-229-2424
MA Marshall Ind Burlington	617-272-8200
MN Marshall Ind Plymouth	612-559-2211
NJ Marshall Ind Mt Laurel	215-627-1920
NY Marshall Ind Hauppauge	516-273-2424
NY Marshall Ind Rochester	716-235-7620
NY Marshall Ind Endwell	607-754-1570
OH Marshall Ind Dayton	513-236-8088
OR Marshall Ind Beaverton	503-646-0090
PA Shap Elect Philadelphia	215-969-3300
SC Hammond Elect Greenville	803-233-4121
TX Marshall Ind Dallas	214-233-5200
TX Marshall Ind Houston	713-789-6600
WA Marshall Ind Bellevue	206-747-9100

ELPOWER CORP 2117 S ANNE ST SANTA ANA CA 92704 TWX 678354	714-540-6155
D KEIL EMP 260 ENG 20 \$5,000-\$10,000K	
AZ Sheller-Kahn Phoenix	602-257-9015
CA Pacific Marketing Hayward	415-887-1620
CA Spec-Rep Marina del Rey	213-827-7767
CO Moss Mktg Denver	303-455-7205
GA Hollingsworth & Still Norcross	404-447-1700
IL G McI Cole Co Chicago	312-774-3535
IN Electronic Mktg Consultants Indpls.	317-253-1668
IN Todino Eng Sales Needham Hts	617-444-7925
MN Resonics Edina	612-941-9135
MO Thos L Dowell & Assoc St Louis	314-849-4234
NJ Twin Sales Marlton	609-966-4070
NY Masin-Esco Hauppauge	516-273-3500
NY Nycom Inc East Syracuse	315-437-8343

OH Electronic Salesmasters Beachwood	216-831-9555
TX R E Nesbitt Co Dallas	214-357-4601
VA Stinson Assoc Herndon	703-620-0088
WA Northmar Inc Seattle	206-524-5170

DISTRIBUTORS	
AL Forbes Dist Birmingham	205-251-4105
AZ Mountain West Phoenix	602-263-8831
AR Components Dist Little Rock	501-227-6272
CA Terminal Sales Fremont	415-656-7278
CA El-Com Cerritos	213-404-2961
CA Energy Sales Mt View	415-969-0800
CO Hensley Battery Denver	303-455-3643
CT Millenium Elect Bridgeport	203-372-2037
FL Components Dist Ft Lauderdale	305-971-4950
GA Wholesale Industrial Elect Atlanta	404-447-8431
HI Precision Radio Honolulu	808-537-5291
IL Telecommunications Downers Grove	312-971-3460
IL OHM Electronics Palatine	312-359-5500
IN Graham Elctns Indpls	317-634-8202
IA Mid-State Distributing Des Moines	515-244-7231
LA Wm B Allen Supply New Orleans	504-525-8222
MD Pyttronic Inds Savage	301-972-0780
MI Alarm Supply Co Livonia	313-591-9100
MN Northern Inc Edina	612-944-1167
MO Walters Radio Supply KC	816-531-7015
NM Battery Power Specialist Albuquerque	505-247-3656
NY National Security Prods Bohemia	516-563-1900
NC Components Distributors Raleigh	919-834-9465
OH Mid-Ohio Battery Columbus	614-861-7200
OR Radar Elect Portland	503-232-3404
PA Pyttronic Montgomeryville	215-643-2850
PA Left Radio Braddock	412-271-7100
SC Wholesale Industrial Charleston	803-732-2634
TN Randolph & Rice Nashville	615-225-5601
TX J V Electronics Houston	713-447-5800
UT Standard Sply Co SLC	801-486-3371
UT Ballard Sply SLC	801-972-2430
VA Aved Elect Richmond	804-359-6071
WA Radar Elect Seattle	206-282-2511
WI Marsh Elect Milw	414-475-6000

EL-RAD MFG CO 2800 W CULLOM AVE CHICAGO IL 60618	
TWX 910-221-0104	312-478-7300
M CHRIST EMP 85 ENG 3 \$2,500-\$5,000K	
AZ Memco Sales Scottsdale	602-952-2254
CA Westech Sales Mt View	415-961-1422
CA J J Riley Assoc Huntington Beach	714-841-1411
FL Cole-Tek Assoc Pompano Beach	305-781-8110
IL IRO Co Arlington Hts	312-593-0644
MD Falon Lott & Co Glen Burnie	301-744-4611
MI McNabb & Assoc Benton Harbor	616-925-2166
MO Abrams & Assoc St Louis	314-569-0447
TX Jaro Electro Sales Richardson	214-231-6654

ELTEC INSTRUMENTS INC BOX 9610 DAYTONA BEACH FL 32020	
TWX 810-832-6294	904-253-5328
D ARMSTRONG EMP 101 ENG 4	

ELZEE METAL PRODUCTS CO INC 779 39TH ST BROOKLYN NY 11232	718-435-5000
C BAKER EMP 100 ENG 3 \$1,000-\$2,500K	

EMCO HIGH VOLTAGE 11126 RIDGE RD SUTTER CREEK CA 95685	209-223-3626
R MCCOY EMP 25 ENG 3 \$1,000-\$2,500K	
ADV PGS 344, 355	

E/M CORP BOX 2200 WEST LAFAYETTE IN 47906 TWX 27-9428	317-463-2511
EMP 360 ENG 3 OVER \$10,000K	
CA E/M Corp Mt View	415-961-5865
CA E/M Corp No Hollywood	213-875-0101
CO E/M Corp Denver	303-371-6771
CT E/M Corp New Britain	203-224-9148
FL E/M Corp Riviera Beach	305-845-7551
GA E/M Corp Atlanta	404-361-2550
IL E/M Corp Lombard	312-620-6808
MA E/M Corp Auburn	617-792-6919
MI E/M Corp Roseville	313-779-6460
MN E/M Corp New Brighton	612-780-3202
OH E/M Corp Dayton	513-254-8481
PA E/M Corp Sharon Hill	215-461-1015
TX E/M Corp Ft. Worth	817-834-8817

EMCOR PRODUCTS/CRENLO INC 1600 4 AVE NW ROCHESTER MN 55901 TWX 910-565-2374	507-289-3371
J HORTON EMP 700 ENG 52	

EMC TECHNOLOGY INC 1971 OLD CUTHBERT RD CHERRY HILL NJ 08034 TWX 710-896-0193	609-429-7800
P SEMITSCHEW EMP 80 ENG 10 \$2,500-\$5,000K	
AZ Blackhart Assoc Phoenix	602-893-3488
CA Stout Industries Sunnyvale	408-746-0470
CA R L Components Malibu	310-456-9021
FL Cole-Tek Assoc Pompano Beach	305-781-8110
IL Feller Assoc Northfield	312-446-8065
IA Feller Assoc Cedar Rapids	319-364-0566
MD Spectro-Lambda Pasadena	301-437-7633
MA OSullivan & Murphy Hingham	617-749-8680
NJ Micro-Lambda E Windsor	609-443-3113
NY Metro-Mics Melville	516-271-6677
TX Vector Sales Co Richardson	214-234-4221
WA Datacom Assoc Seattle	206-285-2525

EMERSON & CUMING 59 WALPOLE ST CANTON MA 02021	
TWX 710-348-1324	617-828-3300
EMP 300 ENG 30 OVER \$10,000K	

EMERSON ELECTRIC CO INDUSTRIAL
CONTROLS DIV 3300 S STANDARD
ST SANTA ANA CA 92702
TWX 67-8460 714-545-5581
W SYRO EMP 1300 ENG 85 \$5,000-\$10,000K
NY Emerson Indus Controls
Grand Island 716-773-2321
FR Emerson Indus Controls
Markham ON 416-475-9290

EMERSON INDUSTRIAL CONTROLS
3300 S STANDARD ST SANTA ANA
CA 92702 TWX 67-8460 714-545-5581
R CALVIN EMP 1000 ENG 80 OVER \$10,000K

EMERSON RADIO CORP 1 EMERSON LA
NORTH BERGEN NJ 07047
TWX 127-603 201-854-4800
W IANE EMP 600 ENG 10 OVER \$10,000K

EMHART FASTENERS GRP POP
FASTENERS DIV 510 RIVER RD
SHELTON CT 06484
TWX 710-451-3734 203-735-9341
E DALTERIO EMP 300 ENG 15

EMICO INC 123 N MAIN ST DUBLIN
PA 18917 TWX 510-665-9583 215-249-9330
N MOORE EMP 175 ENG 4 \$2,500-\$5,000K

AZ Luscombe Engrg Co Scottsdale 602-949-9333
CA Luscombe Engrg Co Campbell 408-370-2020
CA Luscombe Engrg Co Pasadena 213-684-2000
CO Arrowhead Sales Co Arvada 303-423-5556
FL Chaco Sales Co Semenole 813-397-4843
IL Ropes-Cahill Inc Chicago 312-631-0070
KS Robinson & Assoc Shawnee Mission 913-262-1374
MD H R Sieber Co Silver Spring 301-681-3770
MA Anderson Sales Co Braintree 617-848-9194
MN H M R, Inc Mnpls 612-888-2122
NY Nycom Inc Syracuse 315-437-8343
NY D Sonkin Assoc Yonkers 914-968-8282
NC Electro-Rep Assoc Charlotte 704-527-2530
OH Loesch Assoc Rocky River 216-333-0077
PA BGR Assoc Camp Marton 609-428-2440
TX Campion Sales Co Rowlett 214-475-8313
WA Eclipse Redmond 206-885-6991

EM INDUSTRIES INC 5 SKYLINE DR
HAWTHORNE NY 10532 TWX 178993 914-592-4660
L YOUNG EMP 120
CA E M Chem PLG Grp San Jose 408-262-3425

EMPIRE GENERATOR CORP W
190 N 11260 CARNegie DR
GERMANTOWN WI 53022
TWX 910-260-3624 414-255-2700
R THICKENS EMP 40 ENG 6 \$5,000-\$10,000K

AL Jim House & Assoc Birmingham 205-592-6302
AZ Arizona Engine & Pump Phoenix 602-252-1731
CA Lectric Sales Of Cal Westminster 714-893-2443
CA Fred D Benz Co S San Francisco 415-588-2125
CO Pfister & Assoc Morrison 303-697-6165
CT F J Smith Equip Co East Hartford 203-528-6623
FL J Meeks & Assoc Brandon 813-689-6137
HI Bacon Universal Honolulu 808-839-7202
IL Metropolitan Pump Co Lisle 312-971-3200
IN Straffer Sales & Svc Evansville 512-476-3075
IA Computer Power Corp W Des Moines 515-223-1414
LA Parson & Sanderson Metairie 504-733-1330
MD Flow Industries Baltimore 301-484-8000
MA Arthur R Oliver Co Millbury 517-755-8942
MI anEco Inc Lansing 617-321-1010
MN Composite Inc Eden Prairie 612-944-8570
MS Southern Eng & Equip Gulfport 601-864-4781
MT Terrex Industries Great Falls 406-453-2131
NE Computer Power Corp Omaha 408-457-2322
NY North Shore Generator North
Bay Shore 516-667-6220
NY Emergency Generator Serv Hamburg 716-648-2280
OH Ohio Pump Co Salem 216-337-9918
OK Dickerson Lighting Oklahoma City 405-949-9742
OR Redec Enterprises Portland 205-232-8723
PA Kappe Assoc Jenkintown 215-576-8110
RI F J Smith Equip Co East
Hartford CT 203-528-6623
TN Southern Sales Nashville 615-292-5597
TX McAllen Armature Works McAllen 512-686-9502
UT Con-Tro-Flo Co Woods Cross 801-298-3623
VA Key-Tech Lynchburg 804-525-0600
WA Inrep Kirkland 206-828-4668
WI Kirchmayer-Seidel Co Brookfield 414-781-5469

EMPIRE VIDEO INC 6301 POWERS AVE
JACKSONVILLE FL 32217 904-731-4111
M DONZIGER EMP 50 ENG 2 \$5,000-\$10,000K

DISTRIBUTORS
CT Signal Center W Htd 203-233-8551
FL Hammond Elect Orlando 305-849-6080
FL Vance Baldwin Ft Lauderdale 305-523-3461
GA Specialty Dist Co Atlanta 404-TR3-2521
IL Joseph Electronics Niles 312-297-4200
KY Holub Dist Newport 606-431-4211
MD Fairway Electronics Kensington 301-933-4425
MA Tee Vee Supply Boston 617-522-9330
MI Bessma Radio Grand Rapids 616-459-4325
MN Nuss Elect Mnpls 612-824-2646
MO Interstate Radonics St Louis 314-481-2222
MO Stark Electronics Mnpls 612-332-1325
NJ Leader Electronics Hillside 201-354-4200
NY Northeastern Electronics Bronx 212-295-7034
OH Warren Radio Toledo 419-248-3364
PA Cumberland Elect Harrisburg 717-232-5999
SC Elec Elect Columbia 803-779-5332
TN Bluff City Elect Memphis 901-345-9500
TX Electroflex Houston 713-526-3456
VA Certified Elect Alexandria 703-548-5115

EMPORIUM SPECIALTIES CO INC
13 FOSTER ST BOX 65 AUSTIN
PA 16720 814-647-8661
A BARRY EMP 150 ENG 4
CA West Elctn Sales Garden Grove 714-898-0120
FL G Hanson Melbourne 305-727-7474
IL Karl D Engle Co Chicago 312-539-1820
IN Karl D Engle Co Indpls 317-356-3001
IA M G Dessauer Clive 515-223-6151
KY Louken Products Louisville 502-426-5145
MA New England Reps Scituate 617-545-6327
MI Mackinaw Sales & Eng Co Holland 616-392-7837
NY J Matteliano Williamsville 716-634-1211
SC RCS Inc Columbia 803-771-7709
TX Dallas Industrial Sales
Richardson 214-669-2068
WI C Garry Wauwatosa 414-475-9290

EMPRO MFG CO INC BOX 26060
INDIANAPOLIS IN 46226 317-823-4478
M BROTHERTON EMP 20 ENG 1 \$250-\$500K
CA Lew Brooks Co Santa Ana 714-544-8900
CA Lew Brooks Co LaCanada 213-790-8358
CA Brownell Electro Atlanta 404-762-5181
IL Best Rep Co Chicago 312-922-1055
MA EIL Instruments Burlington 617-272-9450
NJ D F Tobias & Co Belleville 201-751-8680
OH Weschler Electric Corp Cleveland 216-238-2550
PA Sunshine Scien Inst Phila 215-673-5600
TX Ev Smith Sales Houston 713-649-5756

EMULATION TECHNOLOGY INC
422 IVES TERR SUNNYVALE
CA 94087 408-243-5209
J BAGLIERE EMP 6 ENG 3 \$100-\$250K

EMULEX CORP 3545 HARBOR
BLVD BOX 6725 COSTA MESA
CA 92626 TWX 910-595-2521 714-662-5600
F BEGICH EMP 850 OVER \$10,000K
CA Emulex Corp Anaheim 714-385-1685
GA Emulex Corp Roswell 404-587-3610
IL Emulex Corp Schaumburg 312-490-0050
NH Emulex Corp Nashua 603-882-6269

DISTRIBUTORS
CA Hamilton / Avnet Costa Mesa 714-641-4100
CA Kierulff Commerce 213-725-0325
CA MTI Systems Cypress 714-220-6300
NY MTI Systems New York 212-563-2760
NY Hamilton / Avnet Hauppauge 516-231-9800
TX Hamilton / Avnet Irving 214-659-4111
TX Kierulff Dallas 214-343-2400

EMULSITONE CO 19 LESLIE CT
WHIPPANY NJ 07981 201-386-0053
M GENSER EMP 15 ENG 5

EN-CER INC 16850 S STATE ST
SOUTH HOLLAND IL 60473-2881
TWX 25-4276 312-339-6310
N HUPPERT, SR EMP 7 ENG 1 UP TO \$100K

ENCLOSURE CORP 4529 ADAMS CIRCLE
CORNWELLS HTS PA 19020 215-638-9550
G GOLDNER EMP 120 ENG 8 \$5,000-\$10,000K
CA DJM Electronics Valencia 213-362-4309
CA DJM Electronics Los Altos 415-968-1680
CT Todino Sales Milford 203-874-6643
FL Electro Tech Assoc Orlando 305-671-5730
MD Spectro Sys Corp Rockville 301-294-9770
MA Todino Sales Needham Hts 617-444-7925
PA Enclosure Corp Cornwells Hts 215-638-9550

ENCODER DIV DILTON SYSTEMS INC
20745 NORDHOFF ST CHATSWORTH
CA 91311 TWX 910-494-1229 818-341-6161
J HUNT EMP 350 ENG 14
AZ Litton Servo Comps Gr Phoenix 602-242-0910
CA Clifton Precision LA Woodland
Hills 818-347-0603
CA Clifton Precision-San Fran
Cupertino 408-996-4507
CO Midwest Meridian Aurora 303-341-7550
FL Boetto Corp Longwood 305-331-1771
IL Midwest Meridian Corp Elk
Grove Vlg 312-640-9540
MO Midwest Meridian Corp Maryland
Hts 314-878-4441
NY R M Glueck Chappaqua 914-238-3233
OH Midwest Meridian Corp Fairborn 513-879-7100
OR Ravenraft Inc Beaverton 503-646-9261
PA Clifton Precision Clifton Hgts 215-622-1000
TX Midwest Meridian Corp Ft Worth 817-654-2132

ENCODER PRODUCTS CO 1601
DOVER RD SANDPOINT ID 83864
TWX 510-776-1595 208-263-8541
V CONNER EMP 70 ENG 6 \$5,000-\$10,000K

ENDEVO RANCHO VIEJO RD
SAN JUAN CAPISTRANO CA 92675
TWX 910-596-1415 714-493-8181
C BOWES EMP 600 ENG 150
AL Endevo Huntsville 205-536-4454
CA Endevo Anaheim 714-831-9200
CA Endevo Mtn View 415-969-3212
CT Endevo West Mystic 203-572-0571
DC Endevo Washington 301-261-1760
FL Endevo Orlando 305-855-4535
IL Endevo Chicago Hts 312-754-8888
IN RDP Corp Indpls 317-243-8788
MD Endevo Annapolis 301-269-8800
MI RDP Corp Charlotte 517-543-6212
OH Endevo Lambertville 609-397-0883
OH R D P Corp Dayton 513-253-6175
TX Endevo Dallas 214-548-5170

ENDICOTT COIL CO INC 24
CHARLOTTE ST BINGHAMTON
NY 13905 TWX 932411 607-797-1263
N APRILE EMP 145 ENG 6 \$5,000-\$10,000K

ENDICOTT RESEARCH GROUP INC
BOX 269 ENDICOTT NY 13760
TWX 510-252-0155 607-754-9187
R RAKOWSKI EMP 90 ENG 3 \$2,500-\$5,000K
ADV PG 332

AZ Finn-Pat Assoc Phoenix 602-954-0301
CA Testco Inc Saratoga 408-253-1900
CA Component Mktg Assoc Lomita 213-326-1460
CO West Inc Denver 303-477-8180
CT Sir Assoc Bloomfield 203-243-9343
FL Cole-tek Assoc Pompano Beach 305-781-8181
GA Wallace Elctn Sales Norcross 404-446-3515
IL Carlson Electronics Elk Grove 312-956-8240
IN J & W Sales Co Indpls 317-842-3740
IA Carlson Electronics Cedar Rapids 319-377-6341
KS PMR Overland Park 913-381-0004
MA Sir Assoc Bedford 617-692-2500
MI Granneman & Assoc Indpls, IN 317-849-3000
MN Jos-Co/Melius Co Mnpls 612-861-3343
MO PMR St Louis 314-569-1220
NE PMR Wichita 316-684-4141
NY H C Johnson Agencies Rochester 716-586-0777
NY Metro Technical Sales Jericho 516-935-3339
NC Wallace Elctn Sales Kernersville 919-996-2742
OH Dynel Co Dayton 614-436-9452
PA Freedman-Malta Assoc King
of Prussia 215-337-9211
TX Mil-Rep Assoc Richardson 214-644-6731
UT West Inc SLC 801-466-5739
WA Testco Inc Bellevue 206-454-7422
WI Carlson Electronic Sales
Milwaukee 414-476-2790

ENDRESS & HAUSER INC 2350
ENDRESS PL GREENWOOD IN 46142
TWX 94-0287 317-535-7138
D WHITE EMP 78 ENG 8 \$5,000-\$10,000K
AL Process Specialties Birmingham 205-969-1750
AK Unit Process Anchorage 907-561-5600
AZ David C Donath Co Mesa 602-833-8612
AR Bob White Assoc Little Rock 501-225-7177
CA Endress & Hauser Inc Pomona 714-598-7031
CA Sabre Controls Oakland 501-225-7177
CO Cliff Beabout Co Denver 303-831-7259
FL Technical Components &
Instr Clearwater 813-446-8628
GA Control Equipment Marietta 404-427-8776
HI Unit Process Honolulu 808-834-7195
ID Unit Process Boise 208-342-7999
IL Wolcott & Assoc Elwood 815-726-1789
IN Geo E Booth Co Indpls 317-271-9261
IA Miller Mech Spec Des Moines 515-243-4287
KS Lucas Controls Shawnee Mission 913-666-2142
LA Fogarty Engineering Gretna 504-366-3264
MD P R Walker & Assoc Cockeysville 301-666-2142
MA O'Connor & Assoc Southborough 617-481-7755
MI Automatic Cont Co Detroit 313-533-8890
MN Control-Tec Mnpls 612-929-4827
MO Comtel Corp St Louis 314-428-5508
MT Kirst Engineering Billings 406-248-1577
NJ Endress & Hauser Clifton 201-777-6167
NY K & P Sales Albauqueque 505-296-3355
NY AFTA Controls Baldwinville 315-638-0451
NC Algay Controls Charlotte 704-366-6976
ND Kirst Engineering Bismark 701-258-1212
OH King Assoc Loveland 513-683-6000
OK Lucas Controls Tulsa 918-749-6409
OR Unit Process Tigard 503-227-5264
PA Staples Assoc Pittsburgh 412-881-5990
TX Bob White Assoc Memphis 901-725-6655
TN Endress & Hauser Humble 713-441-1945
UT Bee Tee Controls Midvale 801-566-7722
VA Process Specialties Inc Salem 703-345-5688
WA Unit Process Co Kirkland 206-827-0433
WV Process Instruments Charleston 304-776-6202
WI Bill Brookfield 414-786-1980
FR Davis Controls Ltd Islington ON 416-233-3211

ENERCO 9615 W MARGINAL WAY S
SEATTLE WA 98108 206-762-1422
L RABIE EMP 4 ENG 2 UP TO \$100K
CA Shanco Inc Van Nuys 213-786-6540
GA Bottoms Up Inc Altemonte Springs 305-834-3654

ENERCORP INSTRUMENTS LTD
25 SHORCLIFFE RD ISLINGTON
ON M9B 3S4 TWX 06-984741 416-231-5335
NY Enercorp Instruments Buffalo 716-832-1369

ENERGY LTD 4714 UPSHUR ST
BLADENSBURG MD 20710
TWX 62837736 301-699-1144

ENERTEC INC 19 JENKINS AVE
LANDS DALE PA 19446 TWX 834-247 215-362-0966
EMP 18 ENG 5 \$500-\$1,000K

ENGDAHL ENTERPRISES 2850
MONTEREY AVE COSTA MESA
CA 92626 TWX 510-600-2002 714-540-0396
S PAULY
CA Engdahl Enterprises La Verne 714-596-4145
FR Kinometrics Inc Pasadena 818-795-2220

ENGELHARD INDUSTRIES 70
WOOD AVE S-CN 770 ISELIN
NJ 08830 TWX 13-8128 201-321-5900
F VITALE EMP 5500 OVER \$10,000K

ENGINEERED COMPONENTS CO
BOX 8121 SAN LUIS OBISPO
CA 93403-8121 805-544-3800
L ROBISON EMP 60 ENG 4

ENGINEERED PLASTICS INC
213 CHASE ST GIBSONVILLE
NC 27249-1998 919-449-4121
R RATLIFF EMP 80 ENG 1 \$2,500-\$5,000K

AL Engineered Plastics Huntsville 205-533-5966
GA Engineered Plastics Doraville 404-455-6030
SC Engineered Plastics Greenville 803-294-1927
VA Engineered Plastics Richmond 804-276-9152

ENGINEERED TECHNICAL PRODUCTS INC
3380 US RT 22 SOMERVILLE
NJ 08876 TWX 136479 201-725-0330
A SPROU EMP 20 ENG 3 \$500-\$1,000K

AZ Sales Engrg Scottsdale 602-994-3230
CA C D Buerki Co Campbell 408-374-8040
CA Weatherman Assoc Santa Ana 714-544-1304
FL Lenz Engrg Co Longwood 305-831-9797
IL R W Venn Co Lake Villa 312-395-5353
MA Dave Hunt Assoc Tewksbury 617-851-9042
PA Scharas Assoc Franconia 215-368-2017

ENGINEERING DESIGN BOX 21057
DENVER CO 80221 303-427-1955
G TITUS EMP 10 ENG 4 \$500-\$1,000K

EN M CO 5617 NORTHWEST HWY
CHICAGO IL 60646 TWX 25-4068 312-794-6150
EMP 100 ENG 10 \$5,000-\$10,000K

ENSGN-BICKFORD OPTICS CO
16-18 ENSGN DR AVON
CT 06001 TWX 510-600-2911 203-678-0371
W BECK

ENSGN CORP 7960 S MADISON
BURR RIDGE IL 60521 312-325-9343
L COFFEY EMP 210 ENG 3 \$5,000-\$10,000K

AL A B Andrews & Co Huntsville 205-539-6817
CA Kingway Assoc Encino 213-788-4124
CA Kingway Assoc San Jose 408-554-9960
FL Askland Elctns Comps Hollywood 305-987-1074
IN John H Weaver Co Columbus 812-372-3625
IA Edgo Tech Sales Darien 312-964-8275
MI John H Weaver Co Indpls 317-926-3154
MN Electro Mark Inc Eden Prairie 612-944-5850
NY B H Tollefson Assoc Rochester 716-271-4141
NY Cooper-Simon & Co Franklin Square 516-489-0404
NC A B Andrews & Co Research Triangle Pk 919-544-1762
OR John Spaulding Co Troutdale 503-666-8214
TX MGR Electronics Dallas 214-238-5246
VA A B Andrews & Co Vinton 919-549-0563
WA John Spaulding Co Seattle 206-282-9173

ENTER COMPUTER INC 6867
NANCY RIDGE DR SAN DIEGO
CA 92121 TWX 181740 619-457-4372
B CURTIS EMP 40 ENG 8
CT Enter Computer Inc New Milford 203-355-2953

ENTERPRISE DEVELOPMENT CORP
5127 E 65TH ST INDIANAPOLIS
IN 46220 317-251-1231
L KOPERNAK

IL Mike Bernann Sales Skokie 679-2293
IN Electronic Repts Indpls 894-1414
MD Forti Assoc Kensington 949-1706
MO R J Throckmorton Sales Co Ballwin 227-7222
OH Thos Shelby & Co St Marys 394-3377

ENTERPRISE SYSTEMS CORP BOX 698
DOVER NH 03820 603-742-7363
V SAWYER EMP 45 ENG 5 \$1,000-\$2,500K

ENTRAN DEVICES INC 10 WASHINGTON
AVE FAIRFIELD NJ 07006
TWX 130-361 201-227-1002
J BUDD \$2,500-\$5,000K
ADV PGS 6,486

AZ J Smith & Assoc Phoenix 602-267-0981
CA Saber Enterprises Long Beach 213-595-5646
CA Secco Assoc Pleasanton 415-484-1030
CO J Smith & Assoc Colo Springs 303-597-5343
CT Pond Tech Sales Hamden 203-281-0005
FL Structural Engr/Test Clearwater 813-442-7767
GA Quantum Msmts Smyrna 404-433-0093
IN Stress Analysis Services Plainfield 317-839-8235
MI Stress Analysis Svc Hartland 313-632-6110
NM J Smith & Assoc Albuquerque 505-265-3406
NY Trot Electronics Clarence 716-634-8500
NY Trot Electronics Pittsford 716-586-8251
NC Quantum Msmts Chapel Hill 919-933-7408
OH Stress Anal Svc Medina 216-725-7733
PA Stress Anal Svc Carnegie 412-344-5555
PA Measurements Inc Exton 215-524-0310
VA Measurements Inc Fredericksburg 703-373-5520
FR Interotechnology Ltd Don Mills Ont 416-445-5500
FR Entran Sari Les Clayes Sous Bois 055-49-85
FR Sankyo Intl Tokyo 264-2431
FR Accutronics Bramley 011-786-2571/2
FR EMI Auchland 876-169

ENTRELEC DIV COGENEL INC
2 RAM RIDGE DR SPRING VALLEY
NY 10977 TWX 996619 800-431-2308
F FLEYNART

CA Entrelec Costa Mesa 714-432-0433
CT Entrelec Pawcatuck 203-599-5179
GA Entrelec Atlanta 404-996-1480
IL Entrelec Schaumburg 312-397-7202
OH Entrelec Cincinnati 513-241-5647
PA Entrelec Philadelphia 215-261-0218
TX Entrelec Houston 713-266-5957

DISTRIBUTORS

AK Debenham Elect Supply Anchorage 907-562-2800
AR Patco Inc Little Rock 501-664-3254
CA Electric Control Dev Burlingame 415-348-0791
CA Electric Switches LA 213-660-1310
CA Electrical Materials Palo Alto 415-494-0400
CA Nunn Royal Electric Carson 213-637-6377
CT Pilgrim Electronics Danbury 203-792-7274
GA Lakeland Engineering Atlanta 404-696-7334
IL Martec Assoc Elk Grove 312-956-8090
IL Control Design Genoa 815-784-6515
LA Currier & Roser New Orleans 504-734-1147
MA Pierce Assoc Westborough 617-366-0002
MI I/O Electric Madison Hts 313-547-6300
NY Ray Baker Elect Rochester 716-586-9164
NY Trot Electronics Clarence 716-634-8500
NC Trot Elect Charlotte 704-376-2237
NC Control Design Pineville 704-588-4410
OH Cincinnati Controls Cincinnati 513-421-4460
OR Platt Elect Portland 503-228-6121
TX Turtle & Hughes Houston 713-923-9004
TX Texas Tech Prods Houston 713-226-0656
TX Metroplex Dallas 214-272-4477
VA Meter Metrics Div Richmond 804-275-1431
WA Cascade Controls Spokane 509-534-3843

ENVIROMARINE SYSTEMS INC
DEPT E 5202 MINNICK RD LAUREL
MD 20707 301-598-8833
EMP 15 ENG 5 \$500-\$1,000K
ADV PG 204

ENVIRONMENTAL COMMUNICATIONS INC
3150 PULLMAN ST COSTA MESA
CA 92627 TWX 910-595-1781 714-557-7800
D NOAEM EMP 85 ENG 7 \$2,500-\$5,000K

ENVIRONMENTAL GROWTH CHAMBERS
510 E WASHINGTON CHAGRIN
FALLS OH 44022 216-247-5100
R CORDES EMP 50 ENG 6 \$2,500-\$5,000K

MN Gibbco Scientific Mnpls 612-781-3488
NJ EGC Lindenwood 609-783-9678
WA EGC Tacoma 206-752-7020
WI Gibbco Scientific Sun Prairie 608-837-8654

EON INSTRUMENTATION INC
15547 CABRITO RD VAN NUYS
CA 91406 818-781-2185
R JONES EMP 15 ENG 6 \$500-\$1,000K

EOTEC CORP 420 FRONTAGE RD
WEST HAVEN CT 06516
TWX 378190 203-934-7961
C WINCHESTER EMP 27 ENG 6

CA Western Technology Mktg Mt View 415-966-8210
CA Pacific Technical Prods Sylmar 818-362-0730

DISTRIBUTORS

AL Matthews Elec Sply Birmingham 205-254-3192
CO Ryall Elec Sply Denver 303-629-7721
FL Ace Elec Sply Jacksonville 904-396-5101
GA Ace Elec Sply Macon 912-788-3211
LA Rely Elec Sply New Orleans 504-897-2211
ME Holmes Dist Portland 207-774-5901
MD Dorman Elec Sply Baltimore 301-727-0710
MI McNaughton-McKay Elec Madison Hts 313-399-7500
MN Elec-Trol Inc Mnpls 612-872-4203
MO French-Garlemar Elec Maryland Hts 314-569-3122
NJ Miller-Knapp Elec Edison 201-985-2600
NY Wehle Electric Rochester 716-461-0200
NC Carolina Elec Sply Charlotte 704-527-6555
NC Electric Supply & Equip Greensboro 919-272-4123
OH Midland Elec Co Solon 216-248-3800
SC Ace Elec Sply Charleston 803-552-7342
TX Nunn Elec Houston 713-676-0100
TX Watson Elec Sply Dallas 214-742-8441
UT Western Controls No SLC 801-292-5900
VA Otte Controls Richmond 804-794-3400
WI Holt Elec Motor Milwaukee 414-771-6600

EPICO PRODUCTS INC BOX N
WALKILL NY 12589 914-895-2033
M GIEGEL EMP 50 ENG 3 \$1,000-\$2,500K

EPIC INC 150 NASSAU ST NEW YORK
NY 10038 212-349-2470
P LETICA EMP 8 ENG 2 \$500-\$1,000K

EPIKTEK ELECTRONICS INC
COMMERCE PARK OGDENSBURG
NY 13669 TWX 053-3544 613-592-2240
T ONYETT EMP 150 ENG 7 \$5,000-\$10,000K

EPOCH ENTERPRISES LTD 3541
N OLIVE RD TUCSON AZ 85719 602-887-1970
R SOUTHWICK EMP 3 ENG 1

AZ Mar Tech Assoc Tempe 602-968-4944
CA Adcon Assoc Ripon 209-599-3993
CA Power Partners Los Angeles 213-215-0800
FL RJC Assoc Orlando 305-894-7371
IL PVA Corp La Grange 312-579-9300
LA HBT Assoc Covington 504-892-4045
MI TBI Co Hazel Park 313-547-3550
MN CMI Corp Minneapolis 612-566-6930
NJ Analectro Inc Parsippany 201-386-9677
OH Tily Co Cleveland 216-371-5335
PA Analectro Inc Cherry Hill NJ 609-424-2883
VA Analectro Inc Fairfax 703-425-6835
WA Thomson Sales Mercer Island 206-232-7686

EPOXYLITE CORP 1235 S STATE
COLLEGE, BOX 6450 ANAHEIM
CA 92806 714-630-7910
M TIMMINS EMP 40 ENG 4 \$5,000-\$10,000K

EPOXY TECHNOLOGY INC 14
FORTUNE DR BILLERICA MA 01821
TWX 94-7140 617-667-3805
P DRISCOLL EMP 18 ENG 4

AZ Wadsworth/Bryant Phoenix 602-275-7366
CA Wadsworth/Bryant Atherton 415-321-3619
CA Wadsworth/Bryant Hacienda Hts 818-330-5592
FL Hyber-Sem Fort Pierce 305-464-0461
IL E Przchera Sales Co Chicago 312-725-1933
MA Normell Assoc Newton 617-969-5478
MI Murray A Percival Co Royal Oak 313-548-1971
NJ Price-Tech Clinton 201-735-9797
NY Feikert Assoc Fairhaven 315-652-5577
OR Demerest Aloha 503-642-4515
UT Specialty Sales Co W Jordan 801-561-0222
WA Demarest & Assoc Seattle 206-523-3210

EPRO CORPORATION 2342 HARRIS WAY
SAN JOSE CA 95131 TWX 275617 408-262-3912
D LEMPERT EMP 80 ENG 20 \$5,000-\$10,000K
TX EPRO Corp Austin 512-328-4600

EPSCO INC 920 WESTWOOD AVE
ADDISON IL 60101 312-543-0410
EMP 8 ENG 2 \$250-\$500K
ADV PG 340

CA VWR Scientific Inc San Francisco 415-468-7151
CA McMaster-Carr Sply Santa Fe Springs 213-945-1311
CO Sgt Electronic Supply Aurora 303-364-1000
FL Marathon Wholesale Elec Supply Marathon 305-743-2262
GA Omni Supply Warner Robbins 912-929-2948
HI Honolulu Elctns Honolulu 808-949-5564
IL Newark Elctns Chicago 312-638-4411
IL McMaster Carr Sply Elmhurst 312-834-9600
IN Electro Products Indpls 317-298-8255
IA Decco Cedar Rapids 319-365-7551
KS King Radio Corp Olathe 319-782-0400
KY Peerless Elect Eqp Louisville 502-637-7674
ME Holmes Distributing Portland 207-774-5901
MI Fulton Radio Supply Lansing 517-394-5020
MN Northwest Radio of Duluth Duluth 218-727-1565
MO Olive Electronics St Louis 314-426-4500
NV Metcalf Ind Elctn Sply Las Vegas 702-384-2151
NC Southeastern Electronics Raleigh 919-828-2311
OH REM Electronics Supply Warren 216-373-1300
OK Trice Elctns Okla City 405-524-4411
PA Fisher Scien Co Pittsburgh 412-562-8300
RI Wm Wandreta Co Providence 401-861-2800
SC Wholesale Ind Electronics Charleston 803-722-2634
SD Electronic Sup Co Mitchell 605-996-4300
TN Electra Distr Nashville 615-329-3971
WV McJunkin Corp Charleston 304-348-5211

DISTRIBUTORS

AL Standard Equipment Co Mobile 205-432-1705
AK Alaska Elec Supply Anchorage 907-563-3774
AZ Dallas Elect Sply Phoenix 602-258-8151
AR Carlton-Bates Little Rock 501-562-9100
CT Hatry Electronics New Haven 203-787-5921
DE Almo Elect Wilmington 302-656-9467
LA Industrial Elect Sply Shreveport 318-222-9459
MD Capitol Radio Whlrs Rockville 301-881-2270
MA Land Elec Supply Lynn 617-982-2220
MS Ellington Elect Jackson 601-355-0561
NE Radio Equip Co Omaha 402-341-7700
NH American Radio Dover 603-742-6800
NJ VWR Scientific Bridgeport 609-467-2600
NY Walker Radio Albuq 505-247-2288
NY Colonial Hdwe Supply New York 212-741-8989
NY University Elect Supply Rochester 716-544-0320
OR United Radio Supply Portland 206-284-0200
TX Allied Elect Ft Worth 817-336-5401
UT Ballard Supply Corp S L C 801-972-2435
VA Avec Elect Norfolk 804-627-3502
WA Western Elec Seattle 206-284-0200
WI Industrial Elect Corp of WI Milwaukee 414-276-1212

EPSCO INC 411 PROVIDENCE HWY
WESTWOOD MA 02090 617-329-1500
TWX 710-348-0484
J SHALHOUB EMP 250 ENG 21 OVER \$10,000K

AZ Odyssey 1 Phoenix 602-248-8846
CA L & M Engrg Inglewood 714-635-1350
CA Mark V Assoc Mt View 415-964-6275
CO Herb Bass Assoc Boulder 303-499-7509
IA Gassner & Clark Co Hiawatha 319-393-5763
MA Tritek Inc Burlington 617-272-4550
NM Odyssey 1 Albuq 505-265-6645
TX Lear Assoc Richardson 214-231-5388
UT Herb Bass Assoc Bountiful 801-295-7100
FR Electro Design Ltc Lachne PQ 514-636-4838

EPSILON-LAMBDA ELECTRONICS CORP
427 STEVENS GENEVA IL 60134
TWX 910 237 1684 312-232-9611
W CAVALLO EMP 25 ENG 9 \$1,000-\$2,500K

AZ Blackhart Assoc Chandler 602-831-2566
CA Mark Five Assoc Mt View 415-964-6275
CA McDougall-McLaughlin Los Angeles 213-477-8566
FL Millett Assoc Melbourne 305-725-5055
KS S W Wollard Co Parker 313-898-6552
MA Tritek Inc Burlington 617-272-4550
MO Abrams & Assoc St Louis 314-569-0447
NY Eltech Sales Inc Paramus 201-967-1309
PA Robt Meyers Assoc Melrose Park 215-224-1663
TX Southwest Microwave Richardson 214-669-1195
VA Schibley Assoc Fairfax 703-591-3908

EQUIPTO ENCLOSURE SYSTEMS
DIV EQUIPTO ELCTNS CORP
421 WOODLAWN AVE AURORA
IL 60506-9988 312-897-4691
J GOLZ EMP 68 ENG 7 \$5,000-\$10,000K

ERASER CO INC THE BOX 4961
OLIVA DR SYRACUSE NY 13221
TWX 937442..... 315-454-3237
L CAHILL EMP 80 ENG 4 \$2,500-\$5,000K

ERBTEC ENGINEERING INC
5680 VALMONT RD BOULDER
CO 80301 TWX 62386292..... 303-447-8750
H GIRARD EMP 16 ENG 4 \$1,000-\$2,500K
AZ Thor Engineering Phoenix..... 602-437-1463
CA Thorson Signal Hill..... 213-595-0361
CA Pacific Mktg Hagward..... 415-887-1620

ERCONA CORP 101 PATCHOGUE/MAIN
DRAWER A PORT JEFFERSON STA
NY 11776 TWX 961449..... 516-331-5500
M KANDELL EMP 20 ENG 2 \$500-\$1,000K

ERICSSON COMMUNICATIONS
7465 LAMPSON AVE GARDEN GROVE
CA 92642 TWX 910-591-1676..... 714-895-3962
A MARKS EMP 700 ENG 100

DISTRIBUTORS

AK Global Comm Anchoage..... 907-276-4532
CO Comm-Well Sales & Engr Golden..... 303-526-0807
GA Southern Tel Supply Norcross..... 404-423-0584
GA Texacom Atlanta..... 404-433-1838
MO Graybar Electric Co St Louis..... 314-531-4700
NE Centel Commun Lincoln..... 402-467-4554
NY Rotelcom Supply Cortland..... 607-756-7511
NY T W Corp Corp Great Neck..... 516-582-8100
OH Buckeye Tel & Supply Columbus..... 614-276-8131
PA Sterling Telecommunications Forty Fort..... 717-288-7471
TN Power & Tel Supply Memphis..... 901-324-6116
UT Roland Communications SLC..... 801-262-4133
WA Independent Comms Supply
Federal Way..... 206-927-3434
WA T U Service Co Vancouver..... 206-696-0983
WI Midwest Tel Supply Appleton..... 414-739-6341

ERNI COMPONENTS CORP 520
SOUTHLAKE BLVD RICHMOND
VA 23236 TWX 82-8376..... 804-794-6367
M ARVINITIS EMP 400 ENG 20 OVER \$10,000K

AZ Gramer Assoc Phoenix..... 602-995-9455
CA DC Electronics Santa Clara..... 408-988-8331
CA West Inc Newport Beach..... 714-852-9211
CO Matthews Assoc Denver..... 303-540-6476
FL Bolton Assoc Ft Lauderdale..... 305-491-5161
IL Dombrow Co Mt Prospect..... 312-253-3326
IN Electronic Repts Indpls..... 317-894-1414
MA George Urban Assoc Dover..... 617-329-4068
MI Jalco Rochester..... 313-656-0210
MN D A Case Assoc Mpls..... 612-859-3700
MO Delltron Co St Louis..... 314-869-4779
NY Arron/J R Assoc Port Washington..... 516-883-0600
NC Wallace Elctn Sales Kernersville..... 919-996-2742
OH Thompson Assoc Dayton..... 513-435-7733
PA Bell Assoc Mechanicsville..... 215-794-7075
TX Matthews Assoc Dallas..... 214-248-7881
VA Tech Repts Springfield..... 703-569-6868
WA Frank Jackson Assoc Redmond..... 206-881-7277
FR Canada Avotronics Toronto ON..... 416-475-2024

DISTRIBUTORS

CA Force Electronics Inglewood..... 213-776-1324
CA Force Electronics San Jose..... 408-943-1324
CA Alwater Electronics Burbank..... 818-841-9050
CT Impact Sales Hamden..... 203-281-1331
FL Elcon Oakland Pk..... 305-491-8447
GA Prehler Inc Atlanta..... 404-447-5540
IL Prehler Inc Chicago..... 312-824-6100
MA Impact Sales Canton..... 617-821-1500
MI Prehler Elect Farmington Hills..... 313-473-7200
MN Northern Automatic Assembly
St Paul..... 612-631-1570
MN Prehler Inc Bloomington..... 612-854-6670
MN Northern Automatic St Paul..... 612-481-0022
NJ MG Assoc Englewood Cliffs..... 201-567-4900
NY Connector Concepts Port
Washington..... 516-883-3800
NC Kirkman Electronics
Winston/Salem..... 919-722-9131
TX Connec/Tek Addison..... 214-733-4411
FR Zierick Concord ON..... 416-669-1429

ERRICH INTL DIV ALL PKG
MACHY & SUPPLIES CORP
90 13 AVE BOX 1176 RONKONKOMA
NY 11779..... 718-895-5870
L LITT EMP 56 ENG 4 \$1,000-\$2,500K

CA Ali-Pack Co 1053 E Edna Covina..... 213-283-6545
GA Cutters Exchange Atlanta..... 404-636-0305
IL Gemini Pkg Glen Ellyn..... 312-858-9010
IN Capitol Paper Indpls..... 317-898-2320
IA Home Plastics Des Moines..... 515-265-2562
MA Dowd Co Woburn..... 617-935-8920
MI Singer Assoc Southfield..... 313-358-5165
MO Weiss-Samuels Inc St Louis..... 314-862-0800
NE S Riekes & Sons Omaha..... 402-339-3030
NJ Anscap Englewood..... 201-569-1867
NY J Mclamb Matthews..... 704-542-0121
PA Pkg Films Equip Norristown..... 215-630-0777
RI Dowd Co Woburn..... 617-935-8920
TN Cutters Exchange Nashville..... 615-329-4931

VA Millhiser Sales Corp Richmond..... 703-643-9101
WA Inter-State Supply Seattle

ESC ELECTRONICS CORP 534
BERGEN BLVD PALISADES PARK
NJ 07650 TWX 710-991-9780..... 201-947-0400
S PACKER EMP 125 ENG 6 \$1,000-\$2,500K
ADV PGS 157,182

AL Interop Assoc Huntsville..... 205-533-1730
AZ Sedco Sales Mesa..... 602-835-6281
CA Rodgers Assoc Santa Clara..... 408-984-8110
CA Westaironics Inc Culver City..... 213-641-4122
CT Betronics Assoc Bridgeport..... 203-374-6404
FL QXI Inc St Petersburg..... 813-821-2281
GA Interop Assoc Norcross..... 404-449-8680
IL Carlson Elctns Sales Assoc
Elk Grove Vlg..... 312-956-8240
IN J & W Sales Indpls..... 317-842-3740
IA Carlson Elctns Sales Assoc
Cedar Rapids..... 319-377-6341
KS Midwest Tech Sales Merriam..... 913-236-8555
MA Betronics Assoc Waltham..... 617-894-8400
MI Character Recognition Co
Plymouth..... 313-459-5170
MN R-J Inc Mpls..... 612-866-3661
MO Midwest Tech Sales St Charles..... 314-441-1012
NJ Robt Smith Assoc New York..... 212-541-4885
NY Robt Smith Assoc Plainview..... 516-681-3155
OH Makin Assoc Cincinnati..... 513-871-2424
TN Interop Assoc Greenville..... 615-639-3491
TX Zeus Engrg Plano..... 214-223-2027
VA Tytronic Tech Sales Reston..... 703-471-0440
WA Ravencraft Inc Beaverton..... 503-646-9261
WI Carlson Elctn Sales Assoc Milw..... 414-476-2790
FR Electrodesign Ltd Montreal PQ..... 514-636-4838
FR Lars Valentin Elek Aps Stenlose..... 02-172417
FR Intl Semiconductor Corp Suresnes..... 50 6 4275
FR Interelctronic GmbH &
Co Munchen..... 089-759-1919
FR G E Electronics London
Ltd London W-8..... 01 727-0711
FR Koning en Hartman Elektrotechnik
B V The Hague..... 15609906
FR Maswaco Nestlun..... 05-131035
FR Aktiebolaget Bromanco Stockholm..... 10-11-35
FR Milano Bros Intl Rockville
Centre..... 516-764-2200
FR G & P Elect AG Zurich..... 01-64-32-31
FR Sobelab Elctrs Brussels Belg..... 02/673.90.55

ESCO PRODUCTS 171 OAK RIDGE RD
OAK RIDGE NJ 07438..... 201-697-3700
F KEGLOVITS EMP 35 ENG 1

ESE 142 SIERRA EL SEGUNDO
CA 90245..... 213-322-2136
R MAYERS EMP 20 ENG 2 \$1,000-\$2,500K

DISTRIBUTORS

IN Allied Broadcast Richmond..... 317-962-8596
NY D Bain Assoc Pt Washington..... 516-883-4818
NY Martin Audio NYC..... 212-541-5900
VA D Green Leesburg..... 703-777-8660
FR Comad Commun Rexdale..... 416-745-6494

ESICO INC W ELM ST DEEP RIVER
CT 06417..... 203-526-5361
RMEAD EMP 50 ENG 1

AL Electro-Rep Assoc Montgomery..... 205-281-3695
GA Electro-Rep Assoc Atlanta..... 404-320-1134
NC Electro-Rep Assoc Charlotte..... 704-527-2530
TX D G Mktg Co Plano..... 214-867-5395

DISTRIBUTORS

AL Mock Elect Huntsville..... 205-539-2401
AZ Scottsdale Tool & Sply Phoenix..... 602-273-7376
CA Claude Michael Inc El Monte..... 213-686-0141
CA Macdonald & Co Glendale..... 213-241-1101
CA WASSCO El Segundo..... 313-772-8124
CA Com-Kyl Sunnyvale..... 408-734-9660
CA Tech-Ser Inc Torrance..... 213-320-8101
FL Howard Assoc Ft Lauderdale..... 305-771-0817
IL EMF Co Chicago..... 312-898-8323
IL Newark Electronics Chicago..... 312-638-4411
IN Graham Elect Ft Wayne..... 612-835-6750
KY Neill LaVie Sply Co
Louisville..... 606-637-5401
MD A Gunther Baltimore..... 301-837-7437
MA Contact-East North Andover..... 617-682-2000
MA Kaufman Co Cambridge..... 617-493-5500
MN W P & R S Mpls..... 612-835-6750
NJ Tooltronics Inc Saddle Brook..... 201-478-2203
NY Electronic Tool Co Pleasantville..... 914-760-8070
NY Irv Morse Sales Brooklyn..... 212-267-2913
NC Cameron & Barkley Knightdale..... 919-266-3611
OH Haseley Distributing Cleveland..... 216-572-1451
PA Techni-Tool Inc Plymouth Mtg..... 215-825-4990
TN Tri-City Ind Sply Johnson City..... 615-029-8106
TX Roy E Davis Co Dallas..... 214-688-0652
TX International Elect El Paso..... 915-598-3406

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1601 WALL ST FT WAYNE
IN 46804 TWX 219-241-4272..... 219-461-4000
F GRADLEY
CA Essex Group LA..... 800-348-0857

CA Essex Group Burlingame..... 800-348-0857
IL Essex Group Chicago..... 800-348-0857
MI Essex Group Warren..... 800-348-0857
MN Essex Group Mpls..... 800-348-0857
MO Essex Group St Louis..... 800-348-0857
NC Essex Group Charlotte..... 800-348-0857
OH Essex Group Cleveland..... 800-348-0857
PA Essex Group Frazier..... 800-348-0857
TN Essex Group Memphis..... 800-348-0857
TX Essex Group Dallas..... 800-348-0857

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FT WAYNE IN 46804
TWX 219-241-4272..... 219-461-4000
K ARCHAMBAULT

AZ Essex/IWI Phoenix..... 800-348-0857
CA Essex/IWI Burlingame..... 800-348-0857
CA Essex/IWI LA..... 800-348-0857
CO Essex/IWI Denver..... 800-348-0857
FL Essex/IWI Tampa..... 800-348-0857
GA Essex/IWI Lithonia..... 800-348-0857
LA Essex/IWI New Orleans..... 504-522-3188
MD Essex/IWI Baltimore..... 301-644-0140
MA Essex/IWI Peabody..... 800-348-0857
MO Essex/IWI North KC..... 800-348-0857
OH Essex/IWI Cincinnati..... 800-348-0857
OK Essex/IWI Okla City..... 405-236-5411
OR Essex/IWI Portland..... 800-348-0857
TN Essex/IWI Memphis..... 800-348-0857
TX Essex/IWI Houston..... 713-680-1082
UT Essex/IWI SLC..... 800-348-0857
WA Essex/IWI Seattle..... 206-763-8986

ESTES ENGINEERING CO 930
MARINE DR PORT ANGELES
WA 98362..... 206-457-0904
S ESTES EMP 28 ENG 3 \$500-\$1,000K

E-SYSTEMS INC GARLAND DIV
BOX 660023 DALLAS TX
75266-0023 TWX 910-860-5187..... 214-272-0515
M SPOONER EMP 3000 ENG 1600

CA E-Sys Inc Van Nuys..... 213-986-9963
FL E-Sys Inc Ft Walton Bch..... 904-243-0127
GA E-Sys Inc Warner Robins..... 912-923-3616
MA E-Sys Inc 9 Meriam Lexington..... 861-9050
MO E-Sys Inc St Louis..... 314-676-1700
NJ E-Sys Inc Tinton Falls..... 201-747-3101
NY E-Sys Inc 736 Dawes Utica..... 315-336-1911
OH E-Sys Inc 5030B Broughton Dayton..... 254-8464
OK E-Sys Inc Box 15420 Okla City..... 405-737-7610
VA E-Sys Inc 1901 N Moore Arlington..... 703-524-2310

E-SYSTEMS MEMCOR DIV 1320
FLAXMILL RD HUNTINGTON
IN 46750 TWX 810-333-1530..... 219-356-4300
OVER \$10,000K

E-T-A CIRCUIT BREAKERS

7400 N CRONAM RD CHICAGO
IL 60648 TWX 25-3780..... 312-647-8303
J PALSIR EMP 850 ENG 30
CA Moulthrop Sales Pleasanton..... 415-463-0450
CA Sierra-Pacific Eng Tustin..... 714-731-3411
CO Challenge Sales Northglenn..... 303-450-2402
CT Eagle Assoc East Haven..... 203-467-6542
FL EAB Inc Orlando..... 305-898-7444
IN Needler Sales Inc..... 317-255-8056
IA Weisler & Assoc Bettendorf..... 319-344-0566
MI Hilltronics Ferndale..... 313-398-5556
MN Chris & Assoc Mpls..... 612-86-1634
MO Weisler & Assoc Ballwin..... 314-394-4544
NY Lamb Components Rochester..... 716-323-1250
NY Schnit Ind Mktg West Hempstead..... 516-486-3615
OH John O Olsen Co Cincinnati..... 513-922-8885
OR Tormco Northwest Hillsboro..... 503-649-8375
PA QRM Inc Havertown..... 215-449-3400
TN Stark & Assoc Inc Hendersonville..... 615-822-1667
TX Delta Components Seagoville..... 214-287-6333
UT F Merchant SLC..... 801-277-3775
VA Beacon North Fairfax..... 703-591-1300
WA Temco Northwest Bothell..... 206-821-5430
WI Star Engrg Milwaukee..... 414-645-3680

ETCHOMATIC INC 151 NEWTON
ST BOX 444 WALTHAM MA 02254
TWX 955 329..... 617-893-2020
R ZARZE EMP 27 ENG 5 \$5,000-\$10,000K

DISTRIBUTORS

CA Buck Sales Fremont..... 415-651-4411
FL Etchomatic of Ft Ft Lauderdale..... 305-568-5060
NY Van Valkenburgh Assoc NYC..... 212-925-8622
NY Spar-Kleen Prods Skaneateles..... 315-685-5711
UT Jack L Woods & Assoc Ogden..... 801-393-0082
VA Chemical Etch Equip & Sply
Alexandria..... 703-971-2646

ETI SYSTEMS 215 VIA DEL NORTE
OCEANSIDE CA 92054
TWX 910-322-1396..... 619-757-7770
CA Libratronix Fullerton..... 714-871-1513
FL Brosey Enterprises Jupiter..... 305-746-2439
IL Brainerd-Wilson Mktg Arlington
Hts..... 312-437-2700
LA HBT Assoc Covington..... 504-892-4045

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MA	Tri-Com Assoc Burlington	617-272-8163
MI	Lowell Wendt Mktg Arlington Hgts.	313-464-2722
MN	International Electronics Mnpls.	612-571-0000
NY	Andrews & Andrews Huntington	516-692-8686
OH	Baehr-Greenleaf & Assoc	
	Cleveland	216-221-9030
OR	Rhodes Sales Corp Hillsboro	503-640-6666
PA	Hommersmith Inc Media	215-543-2434

DISTRIBUTORS		
AZ	Anjon Enterprises Tempe	602-966-6990
CA	A to Z Electronics Anaheim	714-634-3620
CA	Tim Co Sales Canoga Park	312-992-5040
FL	Brosey Enterprises Jupiter	305-746-2439
IL	Ohm Electronics Palatine	312-359-5500
MA	Mac Bearing Co Woburn	617-933-2110
NY	Connector Concepts Port Washington	516-883-3800
NY	Add Elctns Corp East Syracuse	315-437-0300
OH	Spec Component Sales Cleveland	216-464-0405
OK	Trice Wholesale Elect Okla City	405-524-4411
TX	Leneret Co Houston	713-225-1465
WA	Shannon Ltd Kent	206-763-0545

ETM CORP	144 W CHESTNUT AVE	
MONROVIA	CA 91016	213-359-8102
G WALLEEN EMP	40 \$1,000-\$2,500K	

DISTRIBUTORS		
AZ	Scottsdale Tool & Sply Phoenix	602-273-7376
CA	MacDonald & Co Glendale	213-241-1101
CA	RGB Ind Tool & Sply San Jose	408-998-4491
FL	Howard & Assoc Ft Lauderdale	305-771-0817
KS	Burke Sales Overland Pk	313-492-1880
NJ	Janel Inc Stirling	201-467-5600
NY	Electronic Tool Mt Vernon	914-664-0088
PA	Techni-Tool Plymouth Mtg.	215-825-4990
TX	Roy E Davis & Co Dallas	214-653-1041

ETM-ELECTROMATIC INC	470	
SAN ANTONIO AVE	PALO ALTO	
CA	94306	415-494-1505
C HAYSE EMP	85 ENG.8 \$5,000-\$10,000K	

ETRI INC	608 BROOME ST BOX 568	
MONROE	NC 28110	
TWX	810-649-1352	704-289-5423
R FERRELL		

AL	Montgomery Mktg Huntsville	205-830-0498
CA	Bestrronics San Diego	619-693-1111
CA	Norwest Electronics Los Gatos	408-295-1190
CO	Component Prods Sales Boulder	303-530-2800
CT	John E Boeing Co Milford	617-862-2500
FL	Semtronics Assoc Altamonte Springs	305-831-8233
GA	Montgomery Mktg Norcross	404-447-6124
IL	Lincoln, Hodges & Assoc Des Plaines	312-297-3810
IN	Advanced Component Sales Indpls	317-545-6441
JA	PMR Inc Cedar Rapids	319-362-9177
KS	PMR Inc Overland Pk	913-381-0004
MA	John E Boeing Co Lexington	617-862-2500
MI	Favco Technical Repts Birmingham	313-644-0173
MN	Mitt Westlund Assoc Mnpls	612-866-5002
MO	PMR Inc Maryland Hts	314-569-1220
NJ	Trinkle Sales Cherry Hill	609-795-4200
NY	Noeth Honsinger Assoc East Rochester	315-478-2149
NY	Win-Cor Elctns Manhasset	516-627-9474
NC	Montgomery Mktg Cary	919-667-6319
OH	Makin & Assoc Cincinnati	513-871-2424
OR	RTS Inc Wilsonville	503-638-5670
TX	Nova Marketing Dallas	214-750-6082
TX	Nova Marketing Houston	713-988-6082
UT	Component Prods Sales Woodcross	801-292-8882
WA	RTS Inc Vashon	206-285-1363
WI	Lincoln, Hodges & Assoc Waukesha	414-542-3087

DISTRIBUTORS		
AZ	Acacia Sales Tempe	602-894-2874
AZ	Harper SID Phoenix	602-967-4464
CA	Acacia Sales Sunnyvale	408-745-7200
CA	Acacia Sales San Diego	714-565-4365
CA	Components Ctr Fin Valley	714-979-0433
CA	Harper SID Los Angeles	213-289-0255
CA	Harper SID Santa Clara	408-988-6041
CA	Dansco Comp Sales San Jose	408-292-9740
CO	Integrated Elect Denver	303-292-6121
CO	Acacia Sales Lakewood	303-292-2882
CO	Harper SID Denver	303-623-9117
CT	Milgray Elect Orange	203-795-0711
FL	Milgray Elect Winter Pk	305-647-5747
GA	Milgray Elect Atlanta	404-393-9666
IL	OHM/Elect Palatine	312-359-5500
IN	Advent Elect Indpls	317-872-4910
KS	Milgray Elect Overland Pk	913-236-8800
MD	Milgray Elect Rockville	301-468-6400
MD	MS Electronic Rockville	301-340-6400
MA	RC Components Wilmington	617-272-6800
MA	Milgray Elect Burlington	617-272-6800
MI	LWC Dist Livonia	313-464-7700
MN	Stark Elect Mnpls	612-323-1325
NV	Harper SID Reno	702-323-6412
NH	C & H Elect Hudson	603-882-1133
NJ	Milgray Elect Marlton	609-983-5010
NY	Summit Dist Buffalo	716-884-3450
NY	Summit Elect Rochester	716-334-8110
NY	Key Components Bohemia	516-567-7500
NY	Milgray Elect Farmingdale	516-420-9800
NC	Hammond Elect Greensboro	919-275-6391
NC	Electronic Marketing Charlotte	704-394-6195
OH	Alpha Dist Corp Cleveland	216-526-3716
OH	Milgray Elect Cleveland	216-447-1520
OH	Electronic Marketing Columbus	614-299-4161
OK	Norvell Elect Tulsa	918-663-1247
OR	Acacia Sales Beaverton	503-646-3377
OR	Harper SID Portland	503-223-2515
PA	Pytronics Ind Harrisburg	215-643-2850
SC	Hammond Elect Greenville	803-233-4121
TX	Norvell Elect Dallas	214-233-0020

TX	Norvell Elect Houston	713-777-1666
TX	Harper SID Dallas	214-235-3177
TX	Harper SID Houston	713-229-8103
UT	Beil Ind SLC	801-972-6969
VA	VA Radio & Supply Charlottesville	804-296-4184
WA	Harper SID Seattle	206-382-0824
WI	Industrial Elect Milwaukee	414-276-1212
FR	Intl Rectifier Markham ON	416-495-1897
FR	Intek Elect Vancouver BC	604-324-6831

E-TRONICS	16774 SCHOENBORN	
SEPULVEDA	CA 91343	213-892-7279
EMP	15 ENG 2 \$250-\$500K	
IL	Lectron Controls Co Hoffman Est	312-885-8485

EUREKA X-RAY TUBE CO DIV		
LITTON INDUS	3250 N KILPATRICK	
AVE	CHICAGO IL 60641	
TWX	910-221-5632	312-545-3126
R MIES EMP	150 ENG 13 OVER \$10,000K	
CA	Eldco LA	213-384-1227
FL	Eureka X-Ray Tube Miami	305-825-2522
NY	Eureka X-Ray Tube Bayshore	516-586-5996

EUROTHERM CORP	11485 SUNSET	
HILLS RD	RESTON VA 22090	
TWX	89-9449	703-471-4870
W KALLIO EMP	180 ENG 30 OVER \$10,000K	
AZ	Eurotherm Corp Chandler	602-963-8909
CA	Eurotherm Corp Laguna Hills	714-472-8003
GA	Eurotherm Corp Suwanee	404-932-1575
IL	Eurotherm Corp Vernon Hills	312-362-6644
MA	Eurotherm Corp Bellingham	617-784-3741
MI	Eurotherm Corp Ann Arbor	313-995-9202
NY	Eurotherm Corp Corning	607-962-8530
OH	Eurotherm Corp Cincinnati	513-851-3641
PA	Eurotherm Corp Phila	215-284-1866
SC	Eurotherm Corp Rock Hill	803-329-1778
TX	Eurotherm Corp Carrollton	214-691-5058
VA	Eurotherm Corp Manassas	703-369-7998
WI	Eurotherm Corp Watertown	414-261-1160
FR	Elkon Elec Co Ltd Dorval PQ	514-636-0510
FR	Eurotherm Corp Willowdale ON	416-497-0155

DISTRIBUTORS		
CA	Nick Humeny Instruments Belmont	415-593-8392
CT	Temperature Controls for Industry Terryville	203-589-5000
FL	Bredesen & Assoc Ft Lauderdale	305-566-3289
LA	Rise Inc Baton Rouge	504-766-4645
MI	Industrial Temp Controls Dearborn	313-278-2210
MO	Barry Sales & Engrg Co St Louis	314-821-2525
NJ	Mele Instruments Co Marlboro	201-431-4150
OK	Dave Allert Co Tulsa	918-743-7705
RI	OEM Supply Cranston	401-781-3904
TX	Dave Allert Co Houston	713-977-6150
TX	Dave Allert Co Irving	214-986-1506
VA	Processing Engrg Prods Co Richmond	804-745-5655

EVANS ELECTRONICS	BOX 5055	
BERKELEY	CA 94705	415-853-3083
J NOHRNBERG		

EVANS & SUTHERLAND COMPUTER CORP		
580 ARAPEEN DR	SALT LAKE CITY	
UT	84108 TWX 910-925-5818	801-582-5847
B ELSTUN EMP	850 ENG 200	
CA	E & S Irvine	714-752-0952
MN	E & S Mnpls	612-835-0301
PA	E & S Treviso	215-245-7575

EVENTIDE INC	1 ALSAN WAY	
LITTLE FERRY	NJ 07643	
TWX	710-991-8715	201-641-1200
N NATTER EMP	36	

EVEREADY BATTERY CO INC		
39 OLD RIDGEBURY RD	SECT A2	
DANBURY	CT 06817-0001	
TWX	212-867-4155	203-794-2000
H ALWARD OVER	\$10,000K	
ADV PG	36	
CA	UCC San Francisco	415-875-2800
GA	UCC Norcross	404-446-2400
IL	UCC Itasca	312-773-3444
NJ	UCC Saddle Brook	201-845-5400
OH	UCC Middleburg Hts	216-826-4444
TX	UCC Dallas	214-241-9100

EVEREST INTERSCIENCE INC	BOX 345	
TUSTIN	GA 92681 TWX 295368	714-992-4461
S GIFFIN EMP	20 ENG 3	
AL	Newcomb Assoc Huntsville	205-837-3233
CA	R Friedman & Assoc Woodland Hills	818-702-0665
CO	Tech Sales Littleton	303-794-4279
GA	Newcomb Assoc Roswell	404-641-7942
IL	Raeo Inc South Holland	312-331-6001
IN	Raeo Inc Indianapolis	317-636-5944
LA	Allesco Baton Rouge	513-928-1571
OH	Pro-Con Analytical Cincinnati	513-272-3300
PA	Shelby Jones Co Inc Havertown	215-446-6600
TX	Allesco Houston	713-771-0115
VA	Equi-Tech Inc Great Falls	703-759-4147
WI	Raeo Inc Shorwood	414-342-5755

DISTRIBUTORS		
CA	Instrument Laboratory Gardena	213-327-3282
CA	Instrument Laboratory Palo Alto	415-858-1161
LA	Instrument Laboratory New Orleans	504-949-1192

EVERETT/CHARLES MARKETING		
SERVICES INC	6101 CHERRY AVE	
FONTANA	CA 92335	714-899-2521
J LEONARD EMP	16 ENG 2 \$1,000-\$2,500K	

EVERETT/CHARLES TEST EQUIPMENT		
INC	2887 N TOWNE AVE POMONA	
CA	91767 TWX 910-581-3838	714-621-9511
J MALLORY EMP	300 ENG 29 OVER \$10,000K	
CA	R Cook Santa Clara	408-727-5890
CA	J Hudspeth Pomona	714-621-9511
IL	S Lieber Rolling Meadows	312-991-8400
MA	J Hall Lowell	617-454-6911
TX	S Lieber Richardson	214-238-9793

EWALD INSTRUMENTS ROUTE 7E KENT		
CT	06757	203-927-3278
L EWALD		
TX	Teamwork Inc Box 810465 Dallas	214-243-5881
FR	C N Roper Sales Islington ON	416-249-3211

E W C INC	725 FEDERAL AVE	
KENILWORTH	NJ 07033	
TWX	710-996-5993	201-245-3200
CHOTIS EMP	210 ENG 6 \$5,000-\$10,000K	
AZ	Cummings & Assoc Mesa	602-994-9027
CA	Cummings Assoc Santa Clara	408-247-8857
CA	Cummings Assoc Canoga Pk	312-340-6036
CO	Cummings & Assoc Denver	303-455-6860
CT	Sands Co Marion	203-628-4363
FL	Tech-Rep Assoc St Petersburg	813-577-2779
IL	T-Squared Assoc Palatine	312-991-2144
MD	Stinson Assoc Hagerstown	301-790-1193
MN	Proud Industries St Paul	612-646-9428
NJ	Winch Assoc E Brunswick	201-828-4615
NY	Net Sales Fairport	716-467-4538
NY	Net Sales Webster	716-467-4538
OH	J C Hofstetter Co Dayton	513-296-1010
OR	D H S Sales Portland	503-285-9790
PA	Stemler Assoc Bensalem	215-638-4850
TX	Impaq Sales Co Irving	214-257-3677
VA	Stinson Assoc Reston	703-620-0088
FR	Solid State Eng Co Montreal PQ	514-481-3313

DISTRIBUTORS		
CA	Abacus Elctns Mt View	415-961-1500
CA	C & A Elctns Canoga Pk	213-340-6022
IL	Repton Arlington Hts	312-593-7070
MD	Whitney Dist Balt	301-944-8080
OR	Radar Elec Portland	503-233-3691
OR	Dunn Elec Portland	503-285-0124
PA	Whitney Baltimore	301-944-8080
PA	Advocom McKean	814-478-7774
RI	Cal-Greg Warwick	401-738-6130
WA	Radar Elec Seattle	206-282-2511

EXACT ELECTRONICS DIV DYNATECH		
NEVADA INC	2000 ARROWHEAD DR	
CARSON CITY	NV 89701	
TWX	170054	800-648-7952
M BRYLES EMP	70 ENG 8 \$2,500-\$5,000K	
AZ	Trembley Assoc 835 W 22 St Tempe	602-967-2058
CA	Sterling Assoc Orange	714-997-1862
CA	Microwave Measurements Inc Pleasanton	415-997-1862
FL	Saber Assoc Melbourne	305-724-0920
IL	Comtel Corp Chicago	312-539-4838
IN	Comtel Corp Indpls	317-253-1681
KS	Comtel Corp Shawnee Mission	913-722-1030
MD	Eastern Instrumentation Burtonsville	301-384-8500
MA	Polytek Assoc Ashland	617-881-4741
MI	Carter McCormick & Peirce Farmington	313-477-7700
MN	Comtel Corp Wayzata	612-476-1551
MO	Comtel Corp St Louis	314-428-5058
NJ	Scientific Repts Inc Pennsauken	609-662-5222
NM	Trembley Assoc Albuquerque	505-266-8616
NY	Ossmann Instruments Syracuse	315-437-7052
OH	Carter McCormick & Peirce Fairview Pk	216-779-5100
OH	Carter McCormick & Peirce Englewood	513-836-0951
PA	Carter McCormick & Peirce Monroeville	412-372-4415
WI	Comtel Corp New Berlin	414-544-6042

EXAR CORP	750 PALOMAR AVE	
SUNNYVALE	CA 94086	
TWX	910-339-9233	408-732-7970
I REFIGLO EMP	500 ENG 100 OVER \$10,000K	
AL	Rep Inc Huntsville	205-881-9270
AZ	Summit Sales Scottsdale	602-998-4850
CA	Tri Par San Jose	408-280-5744
CA	Landa/Minyard Los Angeles	213-879-0770
CT	Phoenix Sales Ridgefield	203-438-9644
FL	Donato & Assoc Orlando	305-352-0727
GA	Rep Inc Tucker	404-938-4358
IL	Janus Inc Des Plaines	312-298-9330
MD	Component Sales Inc Baltimore	301-484-3647
MA	Mass Tech Sales Westwood	617-329-8820
MI	R P Urban & Assoc Grand Rapids	616-245-0516
MN	Dan'l Engineering Mnpls	612-854-7550
MO	Jim Moore & Assoc Hazelwood	314-731-2401
NJ	Vantage Sales Co Pennsauken	609-663-6660
NM	Syn Tech Albuquerque	505-266-7951
NY	Quality Components Manlius	315-682-8885
NY	Tronic Assoc Great Neck	516-466-2300
NC	Zucker Assoc Raleigh	919-782-8433
OH	Thompson Columbus	614-272-2086
OR	Components West Portland	503-643-5588
TN	Rep Inc Jefferson City	615-475-4105
TX	Technical Marketing Carrollton	214-387-3601
WA	Components West Redmond	206-885-5880
WA	IEC/JACO Bellevue	206-455-2727
WI	Janus Inc Milwaukee	414-476-9104
FR	Clark-Hurman Assoc Nepean ON	613-727-5626

DISTRIBUTORS

CT	Diplomat Electronics Danbury	203-797-9674
FL	Future Electronics Clearwater	813-596-8295
IL	Reptron Electronics Arlington Hts	312-593-7070
IN	R M Electronics Indpls	317-247-9701
MD	Pioneer Electronics Gathersburg	301-948-0710
MA	Diplomat Electronics Holliston	617-429-4120
MI	R M Electronics Grand Rapids	616-531-9300
NY	Diplomat Electronics Melville	516-454-6400
OH	Reptron Electronics Columbus	614-436-6675
OR	Bell Industries Lake Oswego	503-241-4115
TX	Quality Components Addison	214-387-4949
UT	Bell Industries SLC	801-972-6969
FR	Future Electronics Point Claire PQ	514-694-7710
FR	Intek Elect Ltd Vancouver BC	604-324-6831

EXATRON AUTOMATIC TEST EQUIPMENT		
3513 RYDER ST SANTA CLARA		
CA	95051 TWX 172-090	408-737-7111
K HENDERSON EMP 13 ENG 3 \$2,500-\$5,000K		
AL	Pen Tech Assoc Huntsville	205-881-9298
AZ	Zeus Electronics Phoenix	602-263-6022
CA	Romar Intl Covina	213-332-8548
CO	Zeus Electronics Denver	303-321-4246
FL	Pen Tech Assoc Deerfield Bch	305-421-4989
GA	Pen Tech Assoc Marietta	404-424-1931
IL	Solid State Elctns Chicago	312-889-8033
MA	J R Sales Assoc Dracut	617-649-3449
MN	P E C/Levi Inc Edina	612-854-6191
NJ	J R M Elctns Vincentown	609-859-2106
NM	Zeus Electronics Albuquerque	505-842-6633
NC	Pen Tech Assoc Greensboro	919-852-6000
OH	Technical Sales Inc Hudson	216-656-3978
OR	Northwest Test & Msmnt Tigard	503-246-0962
TX	Eldredge Enterprises Richmond	713-342-5264
UT	Zeus Electronics SLC	801-534-0500
WA	Northwest Test & Msmnt Redmond	206-881-8857

EXELAN INC 2180 FORTUNE DR		
SAN JOSE CA 95131 TWX 176610		
D PLANCHON EMP 105 ENG 26		
		408-434-2300

EXCEL TECHNOLOGY INTERNATIONAL		
CORP UNIT 5 BLDG 4 STRYKER LA		
BELLE MEAD NJ 08502		
TWX 910-333-9588		
		201-874-4747
ADV PG 169		

CA	Cerco San Jose	408-298-1918
CA	Electro-Optical Mktg Los Angeles	213-470-6297
CA	Uni-Rep San Diego	619-292-9001
IN	N G Brouillette & Assoc Noblesville	317-848-2016
KS	Engineering Services Co Independence	816-254-3600
MO	Engineering Services Co St Louis	314-997-1515
OR	Frank Jackson Assoc Portland	503-645-8511
TX	Southwest Elctn Industries Dallas	214-690-9881
WA	Frank Jackson Assoc Redmond	206-881-7277
FR	DICOPEL Mexico	561-32-11
FR	Bruno Intl Corp Tel-Aviv	03-321326

EXIDE ELECTRONICS 3301		
SPRING FOREST RD RALEIGH		
NC 27604 TWX 289968		
P TOMPKINS EMP 700 ENG 100 OVER \$10,000K		
CA	Exide Electronics Covina	818-915-8986
GA	Exide Electronics College Park	404-991-6184
MO	Exide Electronics Manchester	314-227-0560
NJ	Exide Electronics Denville	201-625-4200
TX	Exide Electronics Irving	214-257-3820

EXPRESS TEST CORP 239 COMMERCIAL		
ST SUNNYVALE CA 94086		
TWX 184817		
F GAVIN EMP 22 ENG 4		
AZ	Insight Sales Mesa	602-820-4955
CA	Newco Inc Lithia Springs	404-941-6077
TX	Eberts Elctn Sales Latexo	409-687-4342

EXTECH INSTRUMENTS & CONT DIV		
150 BEAR HILL RD WALTHAM		
MA 02154		
B SHIPIONE		
		617-890-7440

EYELET TOOL CO 15 ERIE DR		
NATICK MA 01760		
B WATERHOUSE EMP 22 ENG 4 \$5,000-\$10,000K		
		617-653-9002

FABRICAST INC 2517 SEAMAN		
AV BOX 3176 SOUTH EL MONTE		
CA 91733		
H WOOD EMP 10 ENG 1 \$250-\$500K		
		818-443-3247

FABRILEC NV/SA KASTEELSTRAAT 93		
SINT-NIKLAAS BELGIUM B-2700		
TWX 71517		
EMP 35 ENG 5 \$1,000-\$2,500K		
		776 48 38

FAB-TEK INC 68 MORGAN AVE		
DANBURY CT 06810		
B PESAK EMP 5 ENG 1 \$250-\$500K		
		203-743-3312

FACIT INC 9 EXECUTIVE PK DR		
MERRIMACK PK NH 03054		
TWX 701-992-8927		
W STANGER EMP 250 ENG 5 OVER \$10,000K		
CA	Facit Inc Buena Park	714-522-6511
CA	Facit Inc Menlo Park	415-327-5730
IL	Facit Inc Elk Grove	312-228-6090
NH	Facit Inc Concord	603-224-7929
NJ	Facit Inc Lyndhurst	201-896-1636
OH	Facit Inc Dayton	513-294-6426

FACTRON/SCHLUMBERGER 299		
OLD NISKAYUNA RD LATHAM		
NY 12110 TWX 710-444-4968		
K DAUB EMP 400 ENG 125 OVER \$10,000K		
CA	Factron/Schlumberger San Jose	408-947-3686

CA	Factron/Schlumberger Irvine	714-660-0855
FL	Apex Electronics Orlando	305-857-9070
IL	Factron/Schlumberger Schaumburg	312-934-7910
MA	Factron/Schlumberger Burlington	617-229-2449
MN	Factron/Schlumberger Minneapolis	612-835-3341
NJ	Factron/Schlumberger Paramus	201-599-0005
TX	Factron/Schlumberger Plano	214-423-1075
FR	Factron/Schlumberger Mississauga ON	416-858-7870

FAE INDUSTRIES INC 288 BROADWAY		
HUNTINGTON STATION NY 11746		
A MANKES EMP 15 ENG 1 \$500-\$1,000K		
		516-271-0300

FANFIR BEARING DIV TEXTRON INC		
37 BOOTH ST NEW BRITAIN		
CT 06050		
E HAYDEN EMP 5500 OVER \$10,000K		
AL	Fanfir Bearing Birmingham	823-6659

CA	Fanfir Bearing Carson	532-2870
CA	Fanfir Bearing Dublin	829-2010
CO	Fanfir Bearing Denver	759-8550
FL	Fanfir Bearing Orlando	696-7409
GA	Fanfir Bearing Atlanta	696-7409
IL	Fanfir Bearing E Moline	792-3221
KS	Fanfir Bearing Overland Pk	362-4640
MA	Fanfir Bearing Needham	449-5804
MI	Fanfir Bearing Southfield	353-4100
MN	Fanfir Bearing Mnpls	831-7631
NY	Fanfir Bearing Rochester	244-7313
NY	Fanfir Bearing Bedford Hills	241-0350
NC	Fanfir Bearing Charlotte	523-9477
OH	Fanfir Bearing Cleveland	524-5960
OR	Fanfir Bearing Portland	255-1128
PA	Fanfir Bearing Warminster	672-9306
TN	Fanfir Bearing Memphis	761-2616
TX	Fanfir Bearing Dallas	931-3066
WI	Fanfir Bearing Milwaukee	355-9701

FAGOR ELECTRONIC COMPONENTS INC		
8411 CANOGA AVE CANOGA PARK		
CA 91304 TWX 910-494-1948		
M ZIDEL		
ADV PG 165		
CA	Fagor Elctn Components	
	Toll Free Canoga Park	800-624-5367
NY	Fagor Elctn Components	
	c/o TNT Corp New York	212-759-6201

FAIRCHILD WESTON SYSTEMS INC		
BOX 3041 SARASOTA FL 33578		
TWX 810-864-0406		
W DUNN EMP 800 ENG 210 OVER \$10,000K		
AL	Fairchild Weston Sys Huntsville	205-883-2582
CA	Fairchild Weston Sys Cupertino	408-257-1813
CA	Fairchild Weston Sys Lancaster	805-948-7614
MD	Fairchild Weston Sys Wheaton	301-933-2100
NM	Fairchild Weston Sys Albuquerque	505-884-5701
OH	Fairchild Weston Sys Dayton	513-258-0057

FAIRCHILD WESTON SYSTEMS INC		
300 ROBBINS LA SYOSSET		
NY 11791 TWX 510-221-1836		
EMP 1000 ENG 350		
OH	Fairchild Weston Sys Dayton	513-258-0057
VA	Fairchild Weston Sys Arlington	703-521-0448

FAIRCHILD WESTON SYSTEMS		
INC DATA RECORDERS BOX 3041		
SARASOTA FL 33578		
TWX 810-864-0406		
G PROZZO EMP 700 ENG 250 OVER \$10,000K		
AL	Flora & Boggs Inc Huntsville	205-881-2411
AZ	Vic Myers Assoc Mesa	602-897-7378
CA	Fairchild Weston Westlake Village	213-889-1057

CA	Fairchild Weston Cupertino	408-257-1813
CA	Elotek Systems Irvine	714-250-1144
CO	Vic Myers Assoc Ft Collins	303-223-8907
FL	Wade H Boggs Inc Maitland	305-647-2226
MD	Seltronics Silver Spring	301-589-3391
MA	Intersell Burlington	617-273-3844
MI	WK M Assoc Madison Hts	313-588-2300
NJ	KLS Assoc Cedar Grove	201-785-4450
NM	Vic Myers Assoc Albuquerque	505-884-6878
NY	Scientific Devices Rochester	716-334-2445
OH	WK M Assoc Dayton	513-434-7500
PA	Fairchild Weston Devon	215-687-3220
TX	Fairchild Weston Conroe	409-539-1315
WA	DPM Inc Bellevue	206-747-3309

FAIRMOUNT CHEMICAL CO INC		
117 BLANCHARD ST NEWARK		
NJ 07105 TWX 138905		
D BLUMEL EMP 60 ENG 5 \$5,000-\$10,000K		
CA	Vivion Chemical Co Belmont	415-595-3600

FAIR-RITE PRODUCTS CORP BOX J		
WALLKILL NY 12589		
TWX 510-249-4819		
B TOLAN EMP 175 ENG 5 \$5,000-\$10,000K		
		914-895-2055

AL	Macro-Marketing Huntsville	205-883-9630
CA	Micro Metals Inc Anaheim	714-630-7420
CA	SMI Assoc Santa Clara	408-986-1610
CO	TMC Littleton	303-773-0643
CT	Pettigrew Co West Hartford	203-236-5891
IL	Chas D Atwater Assoc Wheaton	312-653-5701
IN	F J Campisano Co Indpls	317-253-7651
MI	J L Montgomery Assocs Southfield	313-358-2616
MN	Holmes & Ladky Bloomington	612-884-2125
NY	Kaghan Sales Hempstead	516-538-2300
OH	F J Campisano Co Cincinnati	513-574-7111
PA	Kendon Co Easton	215-253-3100
TX	SEI Inc Dallas	214-690-9881
VA	A B Kreger Co Roanoke	703-989-4738
VA	Eltron Sales Ltd Front Royal	703-635-7201
WA	Quest Marketing Bellevue	206-747-9424
WI	Frank W Ladky Assoc Milwaukee	414-351-2112
FR	MacKay Assoc Bolton ON	416-857-4302

FR	Jum-Bo Trading Co Taipei	707-9805
FR	Apex Inductive Devices Alpertown MX	01-903-2944
FR	Electronics 2000 Denver	616-1385
FR	Numex S A Mexico 16 DF	905-561-0122
FR	TLM Neuilly/Seine	1-722-3789
FR	Dongwoo Corp Seoul	593-3237
FR	Stauffer Japan Tokyo	261-8967

FALCO DATA PRODUCTS INC		
1286 LAWRENCE STA RD		
SUNNYVALE CA 94089 TWX 172494		
D NAPLES EMP 85 ENG 9 OVER \$10,000K		
		408-745-7123

FALSTROM CO BOX 118 FALSTROM CT		
PASSAIC NJ 07055		
F VUCCI EMP 200 ENG 15 \$5,000-\$10,000K		
		201-777-00

FANCORT INDUSTRIES INC		
31 FAIRFIELD PL WEST CALDWELL		
NJ 07006		
		201-575-0610

FANON PRODUCTS FANON COURIER CORP		
15300 SAN FERNANDO RD		
MISSION HILLS CA 91345		
TWX 67-5448		
M TROTINER EMP 40 ENG 2 OVER \$10,000K		
AL	Russell Elect Assoc Birmingham	205-822-2196

CA	Russell Etc Etc Assoc Birmingham	205-822-2196
CA	HCM Consulting Inc San Mateo	415-349-6153
CA	GDS Mktg N Hollywood	213-877-8191
FL	TG Assoc Bradenton	813-792-7899
IL	Ken Levy & Assoc Chicago	312-763-5000
IN	Jim Church Mktg Bloomington	812-334-0383
KS	MCI Mktg Sales KC	816-455-2280
MA	Jonel Sales Co Milford	617-478-4650
MI	F & W Mktg Farmington Hills	313-855-0605
NY	Seeber Sales Latham	818-785-4523
OH	Roberts Mktg Group Brookpark	216-433-1450
PA	M Oberst Assoc Phila	215-743-2512
TX	Crockett Sales Dallas	214-350-3377
VA	Golenpaul & Assoc Arlington	703-525-5898
FR	Roburn Agencies New York	212-989-5939

FEEDBACK INC 620 SPRINGFIELD AVE
BERKELEY HEIGHTS NJ 07922 201-464-5181
F SPANO EMP 28 ENG 5 \$2,500-\$5,000K
FL D C Jaeger Corp Orlando 305-645-1500
GA Dixie Electronics Atlanta 404-266-0998
NC Dixie Electronics Apex 919-362-4488
SC Dixie Electronics Columbia 803-779-5332
VA Diversified Educational
Sys Berryville 703-955-2782
FR Feedback Ltd Crowborough 08926-3322

EL PRO INC 7450 N MCCORMICK
BLVD SKOKIE IL 60076
TWX 9910-223-3603 312-761-4500
K LEHMAN EMP 1600

ELTON BRUSH INC 315 WILSON ST
MANCHESTER NH 03105 603-669-1970
J BRISSON EMP 180 ENG 5 OVER \$10,000K
CA F & P Sales Emeryville 415-655-8686
CA Roglien, Nix & Pickrel Gardena 213-327-0900
CA W Johnson Evergreen 303-674-9785
IL D L Botkin Lakeland 813-665-2919
CA Cobb & Lester Atlanta 404-355-3555
FL Felton Skokie 312-673-1351
OH Felton Parma Hts. 216-886-0666
CA Felton Drexel Hill 215-446-5555
X R Kinsman Euless 817-540-0225
VA B Rutherford Seattle 206-762-4888

EMA ELECTRONICS CORP 12-6
EDGEBORO RD EAST BRUNSWICK
NJ 08816 TWX 299425 201-238-1223
B CHENG EMP 20 ENG 4 \$1,000-\$2,500K
AZ M R Engineering Sales Inc 602-956-4670
IL Cole-Tek Assoc 305-781-8110
CA Tek-Rep Marketing 404-963-1600
CA KMA Sales Co 312-398-5300
IL Midstates Marketing 317-639-9999
ND Phoenix Electronics Sales 301-628-2066
AN Electronic Innovators 612-941-0830
MO K & M Sales 913-262-1444
NY North East Components 201-447-0600
JR General Electronics Corp 503-641-5288
X Southern States Mktg Inc 214-238-7500
VA General Electronics 206-228-9505
VI KMA Sales Co 414-259-1771
R Norgay Enterprises Ltd 416-239-3025

ENNER INDUSTRIAL CONTROLS INC
14050 21 AVE N MINNEAPOLIS
MN 55441 612-553-1596

ENVAL ELECTRONICS 63 FOUNTAIN
ST FRAMINGHAM MA 01701
TWX 299550 617-872-8841
C TRICCA EMP 525 ENG 75
IL Conley & Assoc Inc Huntsville 205-882-0316
Z Dorton Enterprises Phoenix 602-944-2957
A Landa / Minyard Inc LA 213-879-0770
L Codella Group Cupertino 408-257-2561
C Conley & Assoc Oviedo 305-365-3283
Century Elctns Corp Chicago 312-777-9700
Century Elctns Corp Noblesville 317-849-2026
ID Naudain Assoc Southern
Gaithersburg 301-258-5040
A Andrews Airtronics Hathorne 617-246-2450
I Hilltronics Inc Ferndale 313-398-5556
N Northport Engrg So St Paul 612-457-8000
Y CDB Enterprises Inc Huntington 516-692-5200
H Upstate Component Sales Penfield 716-381-6071
A H Baier Co Cleveland 216-461-6170
X Metz Benham Assoc Wynnewood 215-896-3300
A W Pat Fralia Co & Assoc Bedford 817-267-3577
J Jas J Backer Co Seattle 206-285-1300
I Century Elctns Corp Milwaukee 414-645-3680
R John G Weiss Co-Ltd St
Laurent PQ 514-337-5022
R Fenwal Elctns Ltd Camberley,
Surrey 26838

DISTRIBUTORS
A Mil Comm Dist Chatsworth 818-998-3111
A Rose Elect San Jose 408-263-9700
O Newark Elect Denver 303-757-3351
O Industrial Elect Englewood 303-694-9444
L Newark Elect Ft Lauderdale 305-887-2372
A Newark Elect Norcross 404-448-1300
N Newark Elect Chicago 312-784-5100
J Graham Elect Indpls 317-634-8202
ID Newark Elect Cheverly 301-937-5085
N Newark Elect Woburn 617-935-8350
I Newark Elect Oak Park 313-967-0600
I Newark Elect Grand Rapids 616-241-6681
IN Stark Elect Mpls 612-332-1325
Y Summit Dist Buffalo 716-887-1800
Y Summit Elect Rochester 716-334-8110
Y CDB Development Huntington 516-692-5200
Y Newark Elect Rochester 716-427-8220
IC Kirkman Elect Winston-Salem 919-722-9131
J Newark Elect Cincinnati 513-771-7000
K Radio Inc Tulsa 918-587-9123
A Metz-Benham Assoc Wynnewood 215-896-3300
X Patco Supply Ft Worth 817-429-8596
X Newark Elect Garland 214-271-2511
T Standard Supply LLC 801-486-3371
T Newark Elect SLC 801-486-1048
R RAE Ind Elec Ltd Burnaby BC 604-291-8866
R Hooker Elec Ltd Montreal PQ 514-487-5151
R Cardinal Ind Elec Ltd Edmonton
AB 403-455-4122
R Electro Sonic Ind Sales
Willowdale ON 416-494-1555

ENVAL INC MAIN ST ASHLAND
MA 01721 TWX 710-380-1072 617-881-2000
F SHEA EMP 1200 ENG 85
A Bellowe Co Oakland 658-9011
A Pacific Thermal Sales Van Nuys 997-1772
O E & M Sales Inc Englewood 761-6202

CT Dittman & Greer Inc Middletown 347-4655
FL Ludlum Assoc Co Miami 592-6523
GA Applebee-Church Inc Atlanta 451-2747
IL Toulon Co River Forest 771-6300
IN Couchman-Conant Inc Indpls 849-9890
IA Volco Co Davenport 326-5233
KS R Greene Co Overland Park 492-6886
LA Ross & Pethel Inc Baton Rouge 293-0520
MD McCourt Co Baltimore 747-0044
MI Smith Inst & Equip Co Warren 755-3110
MN Volco Co Mpls 933-6631
MO Ross & Pethel Jackson 922-8487
MO Richard Greene Co St Louis 994-0222
NE Volco Co Omaha 393-5141
NJ Faber Assoc Clifton 773-8900
NY Robert F Lamb Co Inc Buffalo 874-4900
NY Robt F Lamb Co Albany 869-3355
NC W K Hile Co Inc Matthews 847-9125
OH Anderson-Bolds Inc Cleveland 229-4700
OR Driscoll Automatic Co Tulsa 747-6625
OR Cliff-Elec Control Inc Portland 246-5451
PA Tektronix B Ives & Co King
of Prussia 337-4660
PA Gilson Eng Sales Pittsburgh 931-6114
TN Jordan/Marlar/Hale Memphis 452-7441
TX McClanahan-Pruett Inc Houston 460-9336
TX Don Shuhart Co Inc Dallas 349-6000
VA Hile Cont of Va Chester 796-3001
WI Gordon Hatch Co Inc Milwaukee 671-6550
FR Canadian Chromalox Co Rexdale ON 743-8000
FR Canadian Chromalox Pte Claire PQ 697-1131

FERRANTI ELECTRIC INC SEMI-CONDUCTOR
GROUP 87 MODULAR AVE COMMACK
NY 11725 TWX 510-226-1490 516-543-0200
H NELSON EMP 20 ENG 6 OVER \$10,000K
AL A B Andrews & Co Huntsville 205-539-6817
AZ Sedco Sales Mesa 602-835-6281
CA Ward Electn Packaging Sunnyvale 408-730-4494
CA Angle Assoc Irvine 714-833-0692
CO McCarthy Co Littleton 303-773-0643
IL T Squared Assoc Palatine 312-991-2144
MA Whitehead Assoc Wakefield 617-246-5070
MI R P Urban & Assoc Grand Rapids 616-245-0511
MN Electro Mark Inc Mpls 612-881-3306
NJ F & F Metro Great Neck 516-482-4080
NY F & F Metro Great Neck 516-482-4080
NY Advanced Components Corp
N Syracuse 315-699-2671
NC A B Andrews & Co Res Triangle Pk 919-549-0563
OH ADM Cincinnati 513-579-8108
TX Oeler & Menelaides Richardson 214-234-6334
VA A B Andrews & Co Vinton 703-890-1128
FR Haltronics Ltd Oakville 416-844-2121

DISTRIBUTORS
AZ Arizona Components Phoenix 602-269-5655
CA Pacesetter Elec Santa Ana 714-557-7131
CA Myco/Vickers Canada Pk 213-340-2025
FL All American Miami 305-621-8282
IL Advent Elect Rosemont 312-297-6200
IN Advent Elect Indpls 317-872-4910
IA Advent Elect Cedar Rapids 319-363-0221
MA Cronin Elec Needham 617-449-5000
MA Electronic Specialties Westford 617-486-8495
MI Advent Elect Farmington Hills 313-477-1650
MN Industrial Comps Mpls 612-831-2666
NJ JDD Marlton 609-983-2988
NY Add Elec E Syracuse 315-437-0300
NY Jaco Electronics Hauppauge 516-273-5500
OH ADM Cincinnati 513-579-8108
TX Texcomp Inc Houston 713-995-5356
WA Radar Electronics Seattle 206-282-2511

FERRANTI INTERDESIGN INC
1500 GREEN HILLS RD
SCOTTS VALLEY CA 95066
TWX 910-598-4513 408-438-2900
J KINDREGAN EMP 228 ENG 73 OVER \$10,000K
MA Interdesign Inc Burlington 617-229-5811

FERRANTI PACKARD ELECTRONICS LTD
6030 AMBLER DR MISSISSAUGA
ON L4W2P1 TWX 06-961437 416-624-3020
R OLIVER EMP 180 ENG 5 OVER \$10,000K
NH Bell Controls Nashua 603-882-6984
OH Berberich Assoc Dayton 513-433-0342
PA Tyler Griffin Co Paoli 215-647-1550
WA Delcom Sales Co Seattle 206-248-0090
FR Cardinal Ind Elctns Calgary AB 403-483-6266
FR Rae Ind Elctns Burnaby BC 604-291-8866

FERRITE CONTROL CO DIV MICON INC
1105 INDUSTRIAL PKWY BRICK
NJ 08724 TWX 642-651 201-458-3333
R SEPULVEDA EMP 6 ENG 1 \$500-\$1,000K
CA Crown Elctns 11440 Collins
No Hollywood 201-877-3550
FR Microwave Intl 2000 W Glades
Boca Raton FL 305-391-7475

FERRO CORP COATINGS DIV
4150 E 56 ST BOX 6550
CLEVELAND OH 44101 216-641-8580

FERRO CORP ELCTN CERAMIC
MATLS DEPT BOX 217 PENN YAN
NY 14527 315-536-3357
D CHRISTENSEN EMP 100

FERRO CORP ELECTRONIC GLASSES
DEPT 4150 E 56 ST BOX 6550
CLEVELAND OH 44101 216-641-8580

FERRO CORP LOUTHAN PLANT
2000 HARVEY AVE EAST
LIVERPOOL OH 43920 216-385-1605
L WYCOFF EMP 100 ENG 2 \$2,500-\$5,000K

FERRO-ECA ELECTRONICS CO
3130 W 22 ST BOX 8305 ERIE
PA 16505 TWX 98-0165 814-838-2520
E BECKMAN EMP 250 ENG 3
AZ Wadsworth/Bryant Phoenix 602-275-7366
CA Wadsworth/Bryant Hacienda Hts. 213-330-5592
CA Wadsworth/Bryant Atherton 415-321-3619
IL G Mcl. Cole Co Chicago 312-774-3535
IN L R Woodling Co Carmel 317-844-7365
MA Normell Assoc Newton 617-969-5478
NY Hybrid Sales Bohemia 516-589-1700

FERROFLUIDICS CORP 40 SIMON ST
NASHUA NH 03061
TWX 710-228-8957 603-883-9800
J METZ EMP 225 ENG 35 OVER \$10,000K

FERRONICS INC 52 N MAIN ST
FAIRPORT NY 14450
TWX 510-254-2893 716-223-1010
M SCHROM EMP 40 ENG 6 \$1,000-\$2,500K
AL L & D Huntsville 205-837-1469
AZ Gansner & Clark Tempe 602-968-9037
CA Texel Seal Bch. 213-596-9411
CO West Inc Denver 305-898-4688
FL Delmac Orlando 404-455-3483
GA L & D Atlanta 312-931-8500
IL Sumner Inc Rolling Meadows 312-484-5400
MD Bernard White & Co Baltimore 617-828-4835
MA NEES Canton 313-644-0087
MI Forand Sales Co Birmingham 612-645-9151
MN Countryman Assoc St Paul 816-229-1404
MO Cairns Sales Co Blue Springs 201-825-1304
NJ Bob Cameron Assoc Upper
Saddle River 201-825-1304
NY Joe Rudy Co Syracuse 315-487-6951
NC L & D Inc Greensboro 919-292-3201
OK Jaro Electro Tulsa 918-252-7665
PA Joe Oberlies Co Hatboro 215-675-4226
TX Jaro Electro Richardson 214-231-6654
TX Alexander Entprns El Paso 915-591-3142
WA General Elctns Seattle 502-964-0640
WI Sumner Inc Brookfield 414-784-6641
FR R D Assoc Don Mills ON 416-444-0959

FERROTRAN ELECTRONICS CO INC
11 W 25 ST NEW YORK NY 10010 212-691-3610

FERROXUCUBE 5083 KINGS HWY
SAUGUSTINE NY 12477
TWX 510-247-5410 914-246-2811
J COTICH JR EMP 300 ENG 50 OVER \$10,000K
AL Hughes Assoc Huntsville 205-533-9108
AZ Ferroxcube Tempe 602-968-7917
CA Ferroxcube Santa Clara 408-727-6132
CA Ferroxcube No Hollywood 818-980-4212
CO Ferroxcube Denver 303-989-7310
FL Hutto-Hawkins-Peregoy Pompano
Bch. 305-971-5750
GA CSR Elctns Atlanta 404-396-3720
IL Ferroxcube Wood Dale 312-860-7373
IN Leslie M DeVoe Indpls 317-842-3245
KS Lowell Kangas & Assoc Shawnee
Mission 913-631-3515
MD Eastern Components Timonium 301-561-5811
MA Ferroxcube Norwood 617-769-6940
MI R C Merchant & Co Farmington
Hills 313-476-4600
MN Hi-Technology Sales Eden Prairie 612-944-7274
MO Lowell Kangas & Assoc St Louis 314-821-4050
NY Tech-Mark Inc Endicott 607-748-7473
NY Ampex Electronics Hicksville 516-931-6200
NC CSR Elctns Raleigh 919-878-9200
OH Ferroxcube Dayton 513-898-9577
OR Western Tech Sales Hillsboro 503-640-4620
TX Ferroxcube Dallas 214-231-3481
WA Western Tech Sales Bellevue 206-641-3900

DISTRIBUTORS
CA Ferroxcube Canoga Pk 818-998-7311
GA Ferroxcube Sales Atlanta 404-458-2835
NY Elva Ferrite Labs Woodstock 914-246-5861
PA Eastern Components West
Conshohocken 215-825-8610
FR L A Varah Ltd Oakville ON 416-842-8484

FIBERCOM INC BOX 11966 ROANOKE
VA 24022 TWX 883099 703-342-6700
J FREEMAN EMP 60 ENG 15 \$5,000-\$10,000K
CA Fibercom Inc Newport Beach 714-644-2252
MA Fibercom Inc Wellesley 617-239-8077

FIBERGUIDE INDUSTRIES INC
33 POPLAR ST STIRLING
NJ 07980 TWX 510-100-9180 201-647-6601
T RICH EMP 10 ENG 3 \$1,000-\$2,500K

FIBRA-SONICS INC 5312 N
ELSTON AVE CHICAGO IL 60630
TWX 9102216015 312-286-7377
M WINFREY EMP 20 ENG 1 \$500-\$1,000K

FIBRE MATERIALS CORP 40
DUPONT ST PLAINVIEW NY 11803 516-349-1660
D WASSERMAN EMP 62 ENG 3

FIBRONICS INTERNATIONAL
325 STEVENS ST HYANNIS
MA 02601 TWX 951297 617-778-0700
J HOTCHKISS EMP 350 ENG 120 OVER \$10,000K
CA Fibronics Intl Torrance 213-559-2723
CO Nettechniques Littleton 301-972-0933
CT Fibronics Intl Danbury 203-226-8673
FL David Brown Assoc Winter Spring 305-365-9330
GA David Brown Assoc Stone Mountain 404-498-2800
IL Fibronics Intl Arlington Hts. 312-885-0890
MD Fibronics Intl Laytonsville 301-963-2410
MO Stone Assoc St Louis 314-895-4565
NJ Fibronics Intl Westport 203-226-8673
NY Fibronics Intl Rochester 716-442-5631

OH Fibronics Intl Pittsburg..... 412-433-9210
PA Fibronics Intl Philadelphia..... 215-885-3115
TX Barry Sales Richardson..... 214-234-0255
WA Fibronics Intl Renton..... 206-228-1511

**FIC CORP 12216 PARKLAWN BOX 2046
ROCKVILLE MD 20852
TWX 710-828-9809..... 301-881-8124
R FRYE EMP 45 ENG 2 \$2,500-\$5,000
ADV PG 136**

MD FIC Corp USA Toll Free..... 800-638-6594

**FIDELITY TECH INC 35 EILEEN WAY
EDISON NJ 08837 TWX 844-370..... 201-549-5721
S LIM
ADV PG 352**

FIFTH DIMENSION INC 801
NEW YORK AVE TRENTON NJ 08638
TWX 510-681-8412..... 609-393-8350
T MCGILL EMP 50 ENG 5 \$2,500-\$5,000K

FIGARO ENGINEERING INC
1-5-3 SENBANISHI MINO CITY
OSAKA JAPAN..... 0727 28 2560
H MATOBA EMP 55 ENG 22 \$5,000-\$10,000K
IL FIGARO USA, Inc Wilmette..... 312-256-3546

FIL-COIL CO INC 800 AXINN AVE
GARDEN CITY NY 11530
TWX 960127..... 516-294-5445
B GOLDMAN EMP 85 ENG 3 \$2,500-\$5,000K

DISTRIBUTORS

AZ Thor Engrg Phoenix..... 602-867-1843
CA Thorson Co Goleta..... 805-964-8751
CA W A Borden Co Walnut Creek..... 415-937-5196
CA High Voltage Sales Tarzana..... 213-881-9194
DC Applied Eng Consultants
Washington..... 301-465-1272
FL Brennan Assoc Clearwater..... 813-446-5006
IL Esco Assoc Skokie..... 312-674-2376
MA Norem Wakefield..... 617-879-3835
MN Barnes Sales Assoc Chanhassen..... 612-245-5767
NM IMEC Albuquerque..... 505-883-9010
OH J D Babb Assoc Avon..... 216-934-6113

FILM CAPACITORS INC 174
POLIFLY RD HACKENSACK
NJ 07601..... 201-779-2240
S LIPMAN EMP 80 ENG 3 \$1,000-\$2,500K
NJ Kohi Leonia..... 201-944-6488
NY Lloyd Hart Assoc Rochester..... 716-244-3253
OH GA Barnett & Co Dayton..... 513-275-8646

DISTRIBUTORS

NY Jaco Electronics Hauppauge..... 516-273-5500
FILMTRONICS INC RD 4 BOX 1521
BUTLER PA 16001
TWX 710-790-4835..... 412-352-3790
N CHRISTENSEN EMP 5 ENG 3 \$100-\$250K

FILTER CONCEPTS INC 2624
S ROUSSELLE SANTA ANA
CA 92707..... 714-545-7003
D FRAIM

**FILTRON CO INC 148 SWEET
HOLLOW RD OLD BETHPAGE
NY 11804..... 516-752-1144
H SANKOFF EMP 70 ENG 5 \$2,500-\$5,000K
ADV PG 191**

AL Rakes Eng & Mktg Corp Huntsville..... 205-533-3763
AZ WJM Sales Tucson..... 602-888-4847
CA C & W Components Granada Hills..... 818-368-4032
CA ESCO Assoc Sunnyvale..... 408-745-1410
CO A Bissell Co Ind Sales Boulder..... 303-444-1173
FL Lobo Mktg Assoc New Port Richey..... 813-848-8578
KS Technical Sales Assoc Shawnee
Mission..... 913-888-3330
MD Bernard White & Co Baltimore..... 301-484-5400
MN Electronic Sales Agency
Bloomington..... 612-884-8291
MO Technical Sales Assoc Ferguson..... 314-725-5361
NH C A Wallace Manchester..... 603-622-8852
NJ W Carnes Hasbrouck Hts..... 201-393-9039
NM WJM Sales Albuquerque..... 505-268-9499
NY Carnes Assoc Melville..... 516-694-1600
NY Fountain, Young & Co Syracuse..... 315-437-7733
OH J May Assoc Kettering..... 513-299-8424
PA Rabal Assoc Huntingdon Valley..... 215-947-4825
TX Deardorn Enterprises Bedford..... 817-267-2048

**FILTRONETICS INC 6010 PARRETTA
DR KANSAS CITY MO 64120
TWX 910-771-3109..... 816-231-7375
B GABBERT EMP 64 ENG 6 \$1,000-\$2,500K
ADV PG 186**

CA RT Assoc Sherman Oaks..... 213-788-7588
MD Eastern Tech Corp West
Friendship..... 301-995-0202
MA J K Assoc Malden..... 617-321-2922

FINCOR INCOM INTL INC 3750
E MARKET ST YORK PA 17402
TWX 840432..... 717-757-4641
R EICHELBERGER EMP 600 ENG 30 OVER
\$1,000K

AL Simpson Kirtley & Assoc Pinson..... 205-854-2546
AR Indus Controls Assoc El Dorado..... 501-862-2051
CA Electramation Orange..... 714-541-4434
CA Finco Sunnyvale..... 408-984-1490
CO Robt L Palmer Co Englewood..... 303-922-5585
GA Simpson Kirtley & Assoc Marietta..... 404-973-4675
IL Finco Hinsdale..... 312-920-8118
IN Motion Control Inc Indpls..... 317-849-3381
IA HDI Ltd West Des Moines..... 515-225-3777
LA Indus Controls Assoc Baton Rouge..... 800-643-1109
MA Finco Canton..... 617-821-0580

MI MC2 Inc Troy..... 313-583-2066
MO I L Davidson Co St Louis..... 314-383-1360
NH New Eng Automation Portsmouth..... 603-431-4800
NJ KMC Assoc Warren..... 201-647-5020
NY KMC Assoc Coram..... 516-473-7770
NY G T Tech Sales Syracuse..... 315-437-1699
NC R W Chapman & Co Charlotte..... 704-525-2421
OH Fincor Hudson..... 216-653-7777
OK Indus Controls Assoc Tulsa..... 800-643-1109
OR Fry Controls Portland..... 503-226-2620
TN Fincor Knoxville..... 615-690-8110
TX Indus Controls Assoc Ft Worth..... 800-643-1109
VA Gregg & Assoc Midlothian..... 804-379-1562

FINLUX INC 20395 PACIFICA DR
CUPERTINO CA 95014..... 408-725-1972
U STROM EMP 4 ENG 2 \$250-\$500K

FIRING CIRCUITS INC MULLER
AVE BOX 2007 NORWALK CT 06852
TWX 710-468-3334..... 203-846-1633
C CLYNN EMP 100 ENG 9 \$5,000-\$10,000K

FIRST COMPUTER CORP 645
BLACKHAWK DR WESTMONT
IL 60559 TWX 910-651-1916..... 312-920-1050
L PECORA EMP 30 \$5,000-\$10,000K

**FISCHER AMERICA INC 13755
GLENDALES BLVD SYLMAR CA 91342
TWX 4994182..... 818-362-9396
S DEFFO
ADV PG 123**

CA Wayne Champa Assoc Santa Ana..... 714-662-2228
FL Bill Toy Assoc Indian Harbour..... 305-773-5805

FISCHER & PORTER CO COUNTY
LINE RD WARMINSTER PA 18974
TWX 845-215..... 215-674-6000
R VEIT EMP 2500 ENG 650 OVER \$10,000K

AL Fischer & Porter Co Birmingham..... 205 871-0371
AZ Fischer & Porter Co Tucson..... 888-3730
CA Fischer & Porter Co Anaheim..... 213-925-0497
CA Stoneman Equip Co Concord..... 415-798-8300
CO Hydrologics Inc Englewood..... 303-761-6960
DE Fischer & Porter Co Wilmington..... 302-994-3466
FL Fischer & Porter Co Winter Pk..... 305-628-4544
GA Fischer & Porter Co Stone Mtn..... 404-498-3930
HI Clemco Pacific Co Honolulu..... 808-847-3261
IL Fischer & Porter Co Arlington

Hts..... 312-394-9562
IA Fischer & Porter Co Bettendorf..... 312-394-9562
KY Fischer & Porter Co Louisville..... 502-897-1697
LA Thompson Equip Co Baton Rouge..... 504-355-6663
MD Fischer & Porter Co Towson..... 301-825-2960
MA Fischer & Porter Co Woburn..... 617-938-7887
MI Fischer & Porter Co Southfield..... 313-569-6400
MN Fischer & Porter Co Mpls..... 612-941-3323
MO Durkin Equip Co Maryland Hts..... 314-291-0000
NJ Fischer & Porter Co Clifton..... 201-472-8500
NY Fisher & Porter Co Rochester..... 716-323-1200
NC Fischer & Porter Co Charlotte..... 704-525-2686
OH Fischer & Porter Co Cincinnati..... 513-772-8000
OK Fischer & Porter Co Tulsa..... 918-627-2610
OR ADS Equip Co Portland..... 503-227-2600
PA Fischer & Porter Co Pittsburgh..... 412-922-7040
TN Fischer & Porter Co Memphis..... 901-363-3338
UT Weidner & Assoc SLC..... 801-328-3205
VA Fischer & Porter Co Richmond..... 804-271-0145
WA ADS Equipment Seattle..... 206-725-2600
WV Fischer & Porter Co Dunbar..... 768-2241
WI Fischer & Porter Co Milwaukee..... 463-2470
FR Fischer & Porter (Can)
Ltd Ontario..... 667-9800

FISHMAN CORP PHILIP BOX 539
HOLLISTON MA 01745..... 617-429-2050
D BEEBE EMP 3 ENG 1 \$1,000-\$2,500K

FLAMBEAU PRODUCTS CORP
15981 VALPLAST RD BOX 97
MIDDLEFIELD OH 44062..... 216-632-1631
E SUNYOG EMP 135 ENG 3 \$5,000-\$10,000K

CA Tri-West Ind Sales City
of Industry..... 818-369-7370
CO Franklin Sales Co Englewood..... 303-789-2526
FL LKS Assoc Ocala..... 904-694-4141
IL Anderson Sales Co Batavia..... 312-879-6354
KS TMR Materials Co Lenexa..... 913-888-2606
MA R Cutting Jr Belmont..... 617-489-1137
MI Gillespie Sls Eng Grand Rapids..... 616-949-4741
MN Faith Sales Co Burnsville..... 612-469-4014
NJ 3-D Marketing Edison..... 201-225-0004
TN Southstex Sales Assoc
Chattanooga..... 615-899-9336
TX C J Garvey Co Richardson..... 214-234-3371

FLEXAUST CO DIV CALLAHAN
MINING CORP 11 CHESTNUT ST
AMESBURY MA 01913
TWX 710-347-0593..... 617-388-9700
M WILSON EMP 60 ENG 4 \$1,000-\$2,500K

FLEX-CORE DIV MORLAN & ASSOCS INC
6625 MCVEY BLVD WORTHINGTON
OH 43085..... 614-889-6152

FLEX KEY CORP 18 SARGENT ST
GLOUCESTER MA 01930
TWX 940333..... 617-281-2040
P BODONI EMP 50 ENG 4 \$2,500-\$5,000K

FLEX PRODUCTS 445 INDUSTRIAL RD
CARLSTADT NJ 07072..... 201-933-3030
F RIMMELE EMP 75 ENG 1 \$2,500-\$5,000K

FLEXTRONICS INC 35325 FIRCREST
ST NEWARK CA 94560
TWX 910-381-7016..... 415-794-3532
H BOWERS EMP 1100 ENG 40 OVER \$10,000K
CA Flextronics/CGI Chatsworth..... 818-700-8560
MA Flextronics Inc Lowell..... 617-453-5900

FLIGHT RESEARCH A GEOTEL CO
5210 CHARLES CITY RD RICHMOND
VA 23231..... 804-222-0160
W WAYMACK EMP 23 ENG 3

FLIGHT SYSTEMS BOX 25 HEMPT RD
MECHANICSBURG PA 17055
TWX 842536..... 717-697-0330
D MOYER EMP 75 ENG 16 \$2,500-\$5,000K

FLOATING POINT SYSTEMS BOX 23489
PORTLAND OR 97223 TWX 360470..... 503-641-3135
P SHAPIRO EMP 1300 ENG 21 OVER \$10,000K
CA Floating Point Sys Laguna Hills..... 714-768-0550
CA Floating Point Sys Mt View..... 415-965-1060
CO Floating Point Sys Lakewood..... 303-989-4890
CT Floating Point Sys Simsbury..... 203-651-9300
FL Floating Point Sys Winter Pk..... 305-647-2500
GA Floating Point Sys Atlanta..... 404-255-8119
IL Floating Point Sys Schaumburg..... 312-882-4420
LA Floating Point Sys New Orleans..... 504-392-1330
MD Floating Point Sys Rockville..... 301-984-8950
MA Floating Point Sys Dedham..... 617-329-7540
NJ Floating Point Sys Red Bank..... 201-530-7670
NM Floating Point Sys Corrales..... 505-897-3650
PA Floating Point Sys Devon..... 215-688-8310
TX Floating Point Sys Houston..... 713-977-7778
WA Floating Point Sys Bellevue..... 206-451-8030
FR Floating Point Sys Ottawa ON..... 613-820-9600
FR Floating Point Sys St Laurent PQ..... 514-748-5340
FR Floating Point Sys Calgary AB..... 403-262-5670

FLORIDA DATA CORP 600D
JOHN RODES BLVD WEST MELBOURNE
FL 32935 TWX 56-210..... 305-259-4700
F PRICE EMP 75 ENG 4 OVER \$10,000K
CA B Booher..... 213-379-1880
FL J Burchfield..... 305-254-8990

DISTRIBUTORS

CA Mesa Engin San Diego..... 714-278-8000
CA Royce Mktg Systems Orange..... 714-978-3550
FL W A Brown Assoc Orlando..... 305-423-5500
IL Information Sys Arlington Hts..... 312-228-5440
IL JMK Professionals Campaign..... 717-351-8100
MD Source Assoc Silver Spring..... 301-431-0500
MD Data Systems Marketing Lanham..... 301-577-3730
MA Marketech Wellesley..... 617-237-4340
MA Instrument Dynamics Wakefield..... 617-245-5100
MI Birmingham Data Systems Troy..... 313-362-0010
MN Computer Express Minnetonka..... 612-474-0690
NJ Marketech..... 609-448-7920
NY Marketech New York..... 609-448-7920
PA QED Hattboro..... 215-674-9600
TX Automatic Computer Svcs Irving..... 214-255-8500
UT Peripheral Equip Inc Pleasant
Grove..... 801-785-5000
UT IBC Ogden..... 801-621-2220
VA Nine Assoc Fairfax..... 703-273-1800
FR Oceanic Information Systems
Montreal PQ..... 514-288-6400

FLOROD CORP 17360 S GRAMERCY PL
GARDENA CA 90247 TWX 698-363..... 213-532-2700
R WATERS EMP 30 ENG 10 \$1,000-\$2,500K
CO Arrowhead Sales Arvada..... 303-423-5500
FL DATCO Clearwater..... 813-531-4220
MD Scient Syst Sales Bowie..... 301-262-4100
MA Scient Syst Sales North Andover..... 917-938-9100
NY Scientific Sys Sales Jericho..... 516-822-4800
TX Springer Tech Sales Dallas..... 214-387-5500

FLOW TECHNOLOGY INC 4250
E BROADWAY RD BOX 21346
PHOENIX AZ 85036 TWX 668-344..... 602-437-1000
J MCINTOSH EMP 80 ENG 10 \$2,500-\$5,000K
AL Kemp Instruments Huntsville..... 205-837-4300
AZ Trembley Assoc Tempe..... 602-967-2000
CA D W Harmon Co Canoga Park..... 818-346-7550
CO Trembley Assoc Wheat Ridge..... 303-421-8900
CT Applied Measurements Hamden..... 203-268-5220
FL Quinn Assoc Tampa..... 813-254-5210
GA Kemp Instruments Atlanta..... 404-452-8000
ID R L Scott & Assoc Boise..... 208-322-0440
IL Olson Engrg & sales Crestwood..... 312-388-9300
IN Olson Engrg & sales New Haven..... 219-493-7338
IA Dy-Tronix Inc Cedar Rapids..... 319-377-8270
KS Dy-Tronix Inc Wichita..... 316-838-0880
MA Applied Measurements Acton..... 617-263-2700
LA Alpha Process Sales Baton Rouge..... 504-769-3740
MI WKM Assoc Madison Hts..... 313-588-2300
MN Trask Engineering Mpls..... 612-537-2400
MO Dy-Tronix Inc Bridgeton..... 314-291-4770
NJ RJM Sales Scotch Plains..... 201-322-7880
NM Trembley Assoc Albuquerque..... 505-266-8600
NY Terryberry Sales E Amherst..... 716-632-7400
OH WKM Assoc Dayton..... 513-434-7500
OR Technical Controls Portland..... 503-228-8100
PA WKM Assoc Pittsburgh..... 412-892-4800
SC E Capell & Assoc Greenville..... 803-297-6500
TX Collinsystems Corp Houston..... 713-464-9420
UT Trembley Assoc SLC..... 801-486-5200
VT Applied Measurements Arlington..... 802-375-9500
WA Technical Controls Bellevue..... 206-454-7600
FR CB Engrg Ltd Calgary AB..... 403-259-6220
FR Fielding Crossman & Assoc
Ltd Willowdale ON..... 416-497-9110

FLOYD BELL ASSOCIATES INC
897 HIGGS AV COLUMBUS
OH 43212 TWX 810-482-1763..... 614-488-3190
T SHAIN EMP 50 ENG 5 \$2,500-\$5,000K

DISTRIBUTORS		
CA	Pyramid Elect Santa Clara	408-727-9810
CA	Tim Co Sales Canoga	213-992-5040
CO	Electronic Parts Co Denver	303-744-1992
GA	Texocom Atlanta	404-433-1838
GA	Alltel Supply Norcross	404-447-8410
IL	Unitel of Chicago Glenview	312-729-7971
KS	North Supply Co Industrial Airport	913-791-7000
MN	Stark Elect Mnpls	612-332-1325
NE	Centel Supply Lincoln	402-473-4554
NC	Kirkman Elect Winston Salem	919-722-9131
OH	Alltel Supply Columbus	614-276-8131
TN	Power & Tel Supply Co Memphis	901-276-4442
TX	Texocom Garland	214-272-4511
UT	Standard Supply Co SLC	801-486-3371
FR	RAE Ind Elect Burnaby BC	604-291-8866

FL SURPRENT WIRE & CABLE DIV		
172 STERLING ST CLINTON		
MA	01510 TWX 710-347-1730	617-368-1401
M	BACIS EMP 500 ENG 25 OVER \$10,000K	
AZ	Brandel-Stephens & Co Huntsville	205-883-0445
AL	Bill Earl Assoc Scottsdale	602-663-6093
CA	Balzer-Wolf Assoc Costa Mesa	714-751-3001
CA	Con Cab Sales Co Sunnyvale	408-773-9290
FL	Brandel-Stephens & Co Orlando	305-425-3202
GA	Brandel-Stephens & Co Atlanta	404-261-7579
IL	Flaherty-Haines Des Plaines	312-298-2710
IN	D-M Assoc Indpls	317-842-4424
KS	Baka Corp Wichita	316-682-8411
MA	Browning-Naughton & Co Clinton	617-365-6364
MN	Forand Sales Co Birmingham	612-844-0087
MI	Heils TEMI Bloomington	313-652-2001
NJ	P Tutschek Assoc Mtn Lakes	201-335-2029
NY	L-Mar Assoc Rochester	716-323-1000
NC	Brandel-Stephens & Co Greensboro	919-274-6952
OR	Electronic Comp Sales Tigard	503-245-2342
TX	MGR Electronics Dallas	214-238-5246
UT	Rogers-Strong Assoc SLC	801-486-4778
WA	Electronic Component Sales Mercer Island	206-232-9301

DISTRIBUTORS		
AZ	Storm Prod Phoenix	602-269-3485
AZ	A E Putsche Tucson	602-746-3128
CA	Mil Spec Sup Chatsworth	213-700-1001
CA	Standard W & C El Segundo	213-536-0006
CA	Bay Assoc Menlo Pk	415-321-2940
CA	A E Putsche Carson City	213-639-9500
CA	Storm Prod Inglewood	213-649-6141
CO	Storm Prods Broomfield	303-466-1991
FL	Simcona Elect Ft Lauderdale	305-485-4455
FL	Sunset W & C Cocoa	305-632-3511
FL	A E Putsche Orlando	305-855-6997
GA	KSM Atlanta	404-458-2013
GA	Lance Eng Clarkson	404-292-4404
GA	A E Putsche Norcross	404-923-4180
IL	Storm Prod Hinsdale	312-323-9121
IL	Electro Wire Chicago	312-583-8833
KS	A E Putsche Wichita	316-943-9358
MD	Vertex Elect Hanover	301-796-5000
MA	QPL Elect Burlington	617-229-2424
MA	Colonial W & C Lowell	617-459-6400
MA	Pacer Woburn	617-935-8330
MA	E J Stephens E Hartford	203-568-1927
NY	K L Tannehill Inc Bloomington	612-881-6700
NY	Simcona Elect Rochester	716-328-3230
NY	Vertex Elect Farmingdale	516-923-9880
NY	Pacer Fairport	716-377-0462
OH	Vertex Elect Cleveland	216-831-7140
PA	Delphi Elect Folcroft	215-534-3900
PA	Pyrronius Indus Montgomeryville	215-643-2850
TX	A E Putsche Co Arlington	817-461-9473
TX	Storm Prod Dallas	214-330-1381
TX	Interstate Wire Co Garland	214-271-0541
WA	Universal Elect Redmond	206-881-2900
WA	Industrial Elect W & C New Berlin	414-782-2323

FLUKE MFG CO INC JOHN BOX C9090		
EVERETT WA 98206		
TXW	910-445-2943	206-356-5400
W	HOFFMAN EMP 2645 ENG 168 OVER \$10,000K	
AZ	John Fluke Mfg Co Huntsville	830-9671
AZ	John Fluke Mfg Co Tempe	967-8724
CA	John Fluke Mfg Co Irvine	863-9031
CA	John Fluke Mfg Co Santa Clara	727-0513
CO	John Fluke Mfg Co Denver	750-1222
CT	John Fluke Mfg Co Glastonbury	659-3541
FL	John Fluke Mfg Co Orlando	896-4881
GA	John Fluke Mfg Co Marietta	953-4747
IL	John Fluke Mfg Co Rolling Meadows	398-0850
IN	John Fluke Mfg Co Indpls	875-7870
MD	John Fluke Mfg Co Rockville	770-1570
MI	John Fluke Mfg Co Billerica	663-2400
MI	John Fluke Mfg Co Livonia	522-9140
MI	John Fluke Mfg Co Bloomington	854-5526
MO	John Fluke Mfg Co St Louis	993-3805
NY	John Fluke Mfg Co Paramus	262-9550
NY	John Fluke Mfg Co Albany	881-3550
NY	John Fluke Mfg Co Rochester	323-1400
NY	John Fluke Mfg Co Greensboro	273-1918
OH	John Fluke Mfg Co Middleburg Hts	234-4540
PA	John Fluke Mfg Co Malvern	647-9550
TX	John Fluke Mfg Co Dallas	233-9990
TX	John Fluke Mfg Co SLC	268-9331
WA	John Fluke Mfg Co Redmond	881-6966
FR	Allan Crawford Assoc Ltd Mississauga ON	678-1500
FR	Allan Crawford Assoc Ltd St Laurent PQ	731-8564
FR	Allan Crawford Assoc Ltd Ottawa ON	722-7682
FR	Allan Crawford Assoc Ltd Calgary AB	230-1341
FR	Allan Crawford Assoc Ltd N Vancouver BC	294-1326

FLUOROCARBON CHICAGO DIV		
1150 ALLANSON RD MUNDELEIN IL 60060		
B DICKINSON EMP 50 ENG 2 \$2,500-\$5,000K		312-949-0850
FLUORO-PLASTICS INC G & VENANGO STS PHILADELPHIA		
PA 19134		
H HIMBERT EMP 50 ENG 3 \$2,500-\$5,000K		215-425-5500
FOGG SYSTEM CO INC 15592 E BATAVIA DR AURORA CO 80011		
H FOGG		303-344-1883
FOIL TECHNOLOGY INC BOX 960 MENTOR OH 44061		
T QUIGLEY EMP 4 ENG 1		216-974-8118
AZ	Multitechnology Services Tempe	602-968-7360
MA	Quality Materials Reading	617-470-0680
MN	Multitechnology Services Mnpls	612-378-1235
FOOTE MINERAL CO RTE 100 EXTON PA 19341 TWX 510-668-9142		
J WATSON EMP 1056 ENG 67 OVER \$10,000K		215-363-6500
FORBES & WAGNER INC 192 CENTRAL AVE SILVER CREEK NY 14136 TWX 510-246-6940		
P DONOGHUE EMP 83 ENG 2 \$1,000-\$2,500K		716-934-2691
MA	Astro Rep of New Eng Boston	617-938-6692
NY	Promark Electronics Morrisville	315-662-3310
NY	Cane Tech Sales White Plains	914-694-9240
PA	Denco Norristown	215-609-8990
FORCE COMPUTERS INC 727 UNIVERSITY AVE LOS GATOS CA 95030 TWX 172465		
W FISCHER EMP 75 ENG 26 OVER \$10,000K		408-354-3410
FOREDOM ELECTRIC CO DIV BLACKSTONE IND INC RTE 6 BETHEL CT 06801 TWX 643483		
K KRISTENSEN EMP 80 ENG 2		203-792-8622

DISTRIBUTORS		
CA	Minit Tool Co LA	213-627-1501
CA	Air Tool & Control Redwood City	415-361-8181
CO	Coast Tool Co Arvada	303-422-3413
CT	Bartlett Assoc Darien	203-325-3471
FL	Nasco Torque Tool N Miami	305-652-5702
IL	H F Wilson Eng Glen Ellyn	312-469-8473
MA	Contact East Burlington	617-272-5051
MI	Electric Tool & Svc Detroit	313-366-3830
MN	Jewellmont Corp Mnpls	612-546-3800
MO	Paloma Sales Co KC	816-358-7272
NJ	Dorman Tool Co Parlin	201-727-0770
NY	High Speed Hammer Co Rochester	716-266-6740
OH	Dean Hamlyn Co Cleveland	216-267-3237
OR	Hall Tool Co Portland	503-233-7634
PA	Automation Aides Phil La Mott	215-224-1660
TX	Specialized Prods Dallas	214-358-4663
VA	Grimley & Grimley Portsmouth	804-487-3415
WA	Aranson Ind Supply S Seattle	206-762-0700
FR	Severance Tools of Can Downsvlew ON	416-661-3066
FORMA SCIENTIFIC DIV MALLINCKRODT INC MILLCREEK RD MARIETTA OH 45750		
J KNOWLTON EMP 350 ENG 10 OVER \$10,000K		614-373-4763
FORMED PLASTICS INC 215 STONEHEDGE LA CARLE PLACE NY 11514		
N TERRY EMP 140 \$5,000-\$10,000K		516-ED4-2300
CO	Robt W Moorhead Co Denver	303-758-3238
CT	Currie Industries Old Saybrook	203-388-4026
FL	Freeman Assoc Plantation	305-584-7638
MA	Tech-Line Co Needham	617-444-3880
VA	Small Business Assoc Salem	703-744-7896
WA	McKaig Engr Sales Belfair	206-275-3121

FORM FIT PLASTICS BOX 130 DRACUT MA 01826		
D THROPE		617-957-2943
FORMAX DIV INDICON INC 1120 FEDERAL RD BROOKFIELD CT 06804 TWX 710-456-1372		
		203-775-1287
FORMULABS INDUSTRIAL INKS INC 529 W 4TH AVE, BOX 1056 ESCONDIDO CA 92025 TWX 695405		
J REID ENG 5		800-531-9358
CA	Formulabs Escondido	619-741-2345
OH	Formulabs Ind Inks Piqua	513-773-8933

DISTRIBUTORS		
OH	Midwest Wire Svcs Piqua	800-451-3788
TX	Packaging Mats Co El Paso	915-772-9010
FORMULATED RESINS INC BOX 508 GREENVILLE RI 02828		
H OLDHAM EMP 20 ENG 5 \$1,000-\$2,500K		401-949-2060
FORTH INC 2309 PACIFIC COAST HWY HERMOSA BEACH CA 90254		
TXW 275182		213-372-8493
J PEREIRA EMP 15 ENG 6 \$1,000-\$2,500K		
FORTIN INDUSTRIES INC 12840 BRADLEY AVE SYLMAR CA 91342		
TXW 65-1496		818-362-4350
IL	KELTZ EMP 600 ENG 6	
IL	Watt & Assoc Chicago	312-239-2070
MA	R Lucier Burlington	617-273-2761
MN	Helix Machine Co Mnpls	612-537-2661
NC	Candor Co Myrtle Bch	803-448-8361
TX	Oliver Sales Co Richardson	214-231-1522

FOSTER TRANSFORMER CO 3820 COLERAIN AVE CINCINNATI OH 45223 TWX 810-461-2584		
J STEGMAN EMP 350 ENG 6 OVER \$10,000K		513-681-2420
FOSTORIA INDUSTRIES INC 1200 N MAIN ST FOSTORIA OH 44830		
H RUSSELL		419-435-9201
CA California Equip Sales Mission Viejo		
		714-472-8444
IL Thermal Process Engrg Co Villa Park		
		312-833-6270
MA	All Temp Inc Cotuit	617-756-2332
MN	Bemar Sales Co Willernie	612-426-3362
SC	J Faber Greer	803-292-0571
TX	Stout-Jenning & Schmidt Garland	214-272-5585
WA	Colbert & Assoc Seattle	206-332-9435
FOSTORIA INDUSTRIES INC GEN PRODS DIV 1200 N MAIN ST FOSTORIA OH 44830-0986		
M REINO EMP 160 ENG 10 OVER \$10,000K		419-435-9201
FOTEC INC 529 MAIN ST BOX 246 BOSTON MA 02129 TWX 501372		
D MACK EMP 30 ENG 5 \$2,500-\$5,000K		617-241-7810
FOTOFABRICATION CORP 3758-L BELMONT AVE CHICAGO IL 60618		
H FRIEDMAN EMP 31 ENG 2 \$1,000-\$2,500K		312-463-6211
JL	Paramount Sales Chicago	312-463-6211
MA	Petri & Jones Framingham	617-877-4233
MN	MacNamara Assoc Mound	612-472-4919
NJ	Thaw Sales & Mktg Florham Pk	201-992-2721
OH	Louis Tatl Assoc Northfield	216-467-7261
SC	Progressive Specialties Fort Mill	803-548-1097
FOUNDATION INSTRUMENTS INC 24 COLONNADE RD NEPEAN ON K2E 7J6 TWX 053-4153		
J CLERMONT EMP 60 ENG 21 \$2,500-\$5,000K		613-226-4000
4C ELECTRONICS 9330 PROGRESS PKWY BOX 868 MENTOR OH 44060		
TXW 361717		216-354-6800
EMP 15 ENG 2		
FOURJAY INDUSTRIES INC 2801 ONTARIO AVE DAYTON OH 45414		
M FRAWLEY		513-278-9416
AK	Harry J Lang & Assoc Anchorage	907-279-5741
CA	Roy Coleen Sales Mill Valley	415-383-8700
CA	Wes Alderson Co Culver City	213-870-9286
CA	Stan Sliz & Assoc Louisville	303-666-4760
GA	Murphy & Cota Inc Atlanta	404-875-2525
HI	Technical Sales San Francisco	415-467-1434
IL	Sunrise Sales Co Romeoville	815-886-6034
KS	RW Kunz & Assoc Prairie Village	913-648-3535
MD	Austin Assoc Middletown	609-871-9290
MI	Ted Firanek Sales Pontiac	313-373-9595
MN	Yore Co White Bear Lake	612-770-9760
NJ	Bi-State Marketers Ridgefield	201-943-5888
OH	Mandabach-Lehner Columbus	614-235-0265
PA	Martin Weinberg Assoc Glenside	215-885-4244
TX	Peregine SW Sales Houston	713-772-6765
WA	Pacnor Mktg Inc Lynnwood	206-771-6016
FR	Electronica Intl Miami FL	305-635-8670
THE FOXBORO CO FOXBORO MA 02035 TWX 927-602		
G GARRY EMP 12000 ENG 900 OVER \$10,000K		617-543-8750
AZ	Foxboro Co Birmingham	205-979-0170
AZ	Foxboro Co Phoenix	602-833-4470
CA	Foxboro Co El Monte	213-443-4191
CA	Foxboro Co San Leandro	415-357-7520
CO	Foxboro Co Denver	303-753-0587
CT	Foxboro Co W Hartford	203-236-6121
DE	Foxboro Co Wilmington	302-995-6031
FL	Foxboro Co Jacksonville	904-398-1545
GA	Foxboro Co Chamblee	404-458-2381
HI	Berkley Eng & Equip Co Honolulu	808-845-9379
IL	Foxboro Co Mt Prospect	312-640-3121
KS	Foxboro Co Wichita	316-682-9061
LA	Foxboro Co Baton Rouge	504-291-8872
ME	Foxboro Co Augusta	207-623-1126
MD	Foxboro Co Baltimore	301-377-9000
MA	Foxboro Co Wrentham	617-384-8901
MI	Foxboro Co Farmington Hills	313-851-8900
MN	Foxboro Co Mnpls	612-835-2191
MO	Foxboro Co St Louis	314-567-4377
NJ	Foxboro Co Springfield	201-379-4000
NY	Foxboro Co Albany	518-459-3021
NY	Foxboro Co N Y C	212-244-7373
NC	Foxboro Co Charlotte	704-535-1111
OH	Foxboro Co Cincinnati	513-851-1220
OK	Foxboro Co Tulsa	918-664-2030
OR	Foxboro Co Portland	503-682-2300
PA	Foxboro Co Media	215-565-4100
SC	Foxboro Co Greenville	803-288-4860
TN	Foxboro Co Knoxville	615-588-9768
TX	Foxboro Co Houston	713-783-5400
UT	Foxboro Co SLC	801-486-0133
VA	Foxboro Co Richmond	804-747-6681
WA	Foxboro Co Seattle	206-774-4559
WV	Foxboro Co S Charleston	304-744-5321
WI	Foxboro Co Milwaukee	414-258-3838
FR	Foxboro Controls S A San Juan, PR	809-782-8215
FOXBORO/ICT DIV FOXBORO CO 199 RIVER OAKS PKWY SAN JOSE CA 95134 TWX 910-338-2109		
S GUMA EMP 110 ENG 10		408-946-9630
AL	Kelley Systems Lake Guntersville	205-582-8677
AZ	Jayson Co Phoenix	602-867-1964
AR	Automation Supplies Hot Springs	501-767-5444
CA	Amasco Carson	213-516-8561

CA	Western Sales Sunnyvale	408-745-0673
CO	Western Sales Englewood	303-798-0945
CT	Applied Measurements Hamden	203-288-5288
FL	P Quinn Assoc Tampa	813-254-5211
FL	Berkley Engineering Honolulu	808-845-9377
IL	PVA La Grange	312-579-9300
IL	Berndt Assoc Chicago	312-283-0713
MD	Technical Sales Olathe	913-829-2800
MS	Powell Pendergraph Gaitersburg	301-921-4200
MA	Applied Measurements Acton	617-263-2766
MN	Berndt Assoc Mpls	612-546-2021
MO	Technical Sales St Louis	314-725-5361
NY	Terryberry Sales Williamston	716-632-7404
NC	Mec-Tric Controls Charlotte	704-376-8551
OH	Jim Finnegan & Co Cleveland	216-238-5905
OK	Advanced Tech Sales Tulsa	918-664-0482
PA	Powell Pendergraph Willow Grove	215-657-0330
TX	Advanced Technical Sales Houston	713-440-3888
VT	Applied Msmnts Arlington	802-375-9537
VA	Powell Pendergraph Richmond	804-270-1400
WI	Stapleman Corp Glendale	414-352-5777
FR	John De Groot Assoc Ontario	416-431-9331

FOX CO C J 236 ABORN ST	
PROVIDENCE RI 02940-6186	800-556-6868
R MEYERS	

FOX ELECTRONICS 6225 PRESIDENTIAL	
CT FT MYERS FL 33907	
TXW 510-951-7385	813-482-7212
V LEE EMP 150 ENG 5 \$5,000-\$10,00K	

DISTRIBUTORS

AL	Component Dist Huntsville	205-883-7501
AL	Contact Elect Huntsville	800-633-7200
AL	Rocket City Elect Huntsville	205-531-0179
AZ	Cetec Phoenix	602-882-0808
AZ	Insight Tempe	602-829-1800
AF	Component Dist Little Rock	501-227-6278
CA	Integrated Electronics San Jose	408-263-1100
CA	Cetec San Diego	619-278-5020
CA	Cetec Irvine	714-250-4141
CA	Cetec Chatsworth	818-700-0914
CA	Cetec Southgate	213-773-6521
CA	Arndt Belmont	415-592-8097
CA	Cal Cap Santa Clara	408-980-8495
CA	Cypress San Jose	408-945-8400
CA	Cypress Torrance	213-533-6005
CA	Integrated Electronics Chatsworth	213-988-2200
CA	Integrated Electronics Irvine	714-837-9960
CA	Integrated Electronics Sacramento	916-424-5297
CA	Insight Elect San Diego	619-587-0471
CA	Future Elect Corp San Jose	408-945-9100
CA	Cetec Santa Clara	408-748-8550
CA	Integrated Electronics Denver	303-292-6121
CO	Future Elect Corp Westminster	303-650-0123
CO	Cypress Wheatridge	303-431-2622
CT	Cronin Electronics Wallingford	203-265-3134
CT	Future Elect Corp Danbury	203-743-9594
CT	R C Components Milford	203-874-0006
FL	CAM/RPC Longwood	305-834-2031
FL	Future Elect Corp Clearwater	813-441-4771
FL	Summit Dania	305-920-6251
FL	Component Dist Ft Lauderdale	305-971-4950
FL	Repron Ft Lauderdale	305-735-1112
FL	Repron Tampa	800-282-1360
GA	Components Distributors Inc Atlanta	404-441-3320
GA	Repron Atlanta	404-446-1300
IL	Integrated Electronics Hoffman Estates	312-843-2040
IL	Repron Schaumburg	312-882-1700
LA	AFG Electronic Supply Harvey	504-368-9696
MD	Future Elect Corp Columbia	301-995-1222
MA	R C Components Wilmington	617-273-1860
MA	Cronin Elect Boston	617-449-5000
MA	Future Elect Boston	617-366-2400
MI	Ambur Elect Div Spemco St Clair Shores	313-771-2700
MI	Calder Elect Grand Rapids	616-698-7400
MI	Repron Livonia	313-525-2700
MO	Northern Electronics Edina	612-944-1167
MO	Franklin Elect St Louis	314-993-5333
NH	Cronin Salem	603-898-4440
NJ	Future Elect Corp Mt Laurel	609-778-7600
NY	Add Electronics E Syracuse	315-437-0300
NY	CAM/RPC Henrietta	716-334-5600
NY	Summit Buffalo	716-887-2800
NY	Future Elect Corp Liverpool	315-451-2371
NY	Summit Rochester	716-334-8110
NC	Component Dist Raleigh	919-834-9465
OH	CAM/RPC Cleveland	216-461-4700
OH	Televox Dayton	513-294-4499
OR	Repron Worthington	614-436-6675
OR	Almac Beaverton	503-629-8090
OR	Integrated Elect Corp Tigard	503-639-9661
PA	CAM/RPC Pittsburgh	412-782-3770
TX	Sunbelt Electronics McKinney	214-235-0587
TX	Tinkertronics Austin	512-926-0835
TX	Cypress Dallas	214-869-1435
TX	Essential Electronics Houston	713-493-5028
TX	Henry Electronics Channel View	713-452-4451
TX	Heiland Electronics Dallas	214-351-2050
TX	Component Dist Dallas	214-644-0373
UT	Integrated Electronics North Salt Lake	801-298-1868
UT	Future Elect Corp SLC	801-972-8489
WA	Integrated Electronics Bellevue	206-455-2727
WA	Almac Electronics Bellevue	206-643-9992
WA	Future Elect Corp Bellevue	206-881-8199
WA	Almac Spokane	509-924-9500
FR	Carsten Electronics Canada	416-729-5138
FR	Future Electronics Canada	514-694-7710
FR	Future Elect Calgary AB	403-235-5325
FR	Future Elect Edmonton AB	403-438-2858
FR	Future Elect Vancouver BC	604-438-5545
FR	Future Elect Downsview ON	416-638-4771
FR	Future Elect Ottawa ON	613-820-8313

FR	Carsten Scarborough ON	416-495-9999
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JOHN FRANEK CO INC 17346 EASTMAN
IRVINE CA 92714
EMP 6 ENG 3 OVER \$10,00K
ADV PG 331

FRANKEL ENGINEERING LABS INC
 125 S 5TH ST READING
 PA 19603
 E SHEETZ EMP 20 ENG 3 \$500-\$1,000K

FRANKLIN ELECTRIC CO INC
 400 E SPRING ST BLUFFTON
 IN 46714 TWX 810-323-1491
 J LINDSAY EMP 1250 ENG 40 OVER \$10,00K

CA	D Bacchetti Los Angeles	213-928-7488
CT	W Johnson Guilford	203-453-4159
FL	C Blackstone Orlando	305-293-0041
IL	T Wheeler Lisle	312-964-3838
IN	L Brown Noblesville	317-773-7151
KY	W Simpson Ft Mitchell	606-331-8889
MN	K Dickmann Mpls	612-370-0010
MO	F Fischer St Louis	314-965-4311
NY	C Boose Syracuse	315-463-6211
NC	R Tarolli High Point	919-889-1024
OH	M Middleton Elyria	216-366-5855
PA	D Baumgartner Lansdale	215-362-7400
TX	D Haecker Dallas	214-241-4078

FRAZIER INC 1930 VALLEY VIEW LA
 DALLAS TX 75234
 M PARDEE EMP 25 ENG 2 \$500-\$1,000K

CA	J G Humble Anaheim	714-750-2248
CO	Stan Slitz & Assoc Louisville	303-666-4760
FL	S R T Mktg Tampa	813-884-4805
IN	Kingston Sales Indpls	317-876-2545
KS	Corrigat Agency Leawood	913-341-7982
MI	Shalco Inc Pleasant Ridge	313-547-4771
MN	Norland Assoc Moorhead	218-233-4616
NJ	Fahy Mktg Marlton	215-923-4534
NY	Jas Altman Co Jackson Hts	212-972-0950
OH	AVCOM Inc No Olmstead	216-777-2060
SC	Rohr-Wagner-Roberts Rock Hill	803-324-5111

FREDERICK COMPONENTS INTL
 20806 PLUMMER AVE CHATSWORTH
 CA 91311 TWX 691531

FREDERICKS CO PHILMONT
 AVE & ANNE ST HUNTINGDON
 VALLEY PA 19006
 H SIMONS EMP 150 ENG 6 \$5,000-\$10,00K

CA	Int'l Technisystems Costa Mesa	714-646-0591
CT	Northeast Eng Hamden	CH 8-4481
MA	Northeast Eng Danvers	SP 4-3010
NY	Northeast Engrg Inc Manhasset	365-9633

FREED TRANSFORMER CO INC
 1718 WEIRFIELD ST RIDGEMOOD
 NY 11385
 M SALZBERG EMP 250 ENG 25

FRENCHTOWN CERAMICS CO
 8TH & HARRISON ST FRENCHTOWN
 NJ 08825 TWX 510-235-3399
 W WEAVER EMP 200 ENG 10 \$5,000-\$10,00K

FREQUENCY & TIME SYSTEMS INC
 34 TOZER RD BEVERLY MA 01915
 TWX 94-0518
 J MURPHY EMP 140 ENG 20 \$5,000-\$10,00K

FREQUENCY DEVICES INC 25
 LOCUST ST HAVERHILL MA 01830
 TWX 710-347-0314
 W MUNROE EMP 55 ENG 5 \$1,000-\$2,500K

AL	Lee Assoc Mid-South Huntsville	205-533-5896
CA	Textel Seal Beach	213-596-9411
CA	Textel San Jose	408-272-6836
IL	Kingston Components Inc Palatine	312-359-7990
MA	McLellan Assoc Holbrook	617-767-4771
NJ	Winch Sales Assoc E Brunswick	201-828-4615
TX	TCI Electronics Houston	713-774-5019
FR	R D Assoc Ontario	416-444-0959

FREQUENCY ELECTRONICS 55
 CHARLES LINDBERGH BLVD
 MITCHEL FIELD NY 11553
 TWX 310-475-8406
 J CUTHBERTSON EMP 400 ENG 50 OVER \$10,00K

FREQUENCY SELECTIVE NETWORKS INC
 69-20 GARFIELD AVE WOODSIDE
 NY 11377
 M IZZOLO EMP 25 ENG 4 \$1,000-\$2,500K
 ADV PG 191

FL	Donato Assoc Ft Lauderdale	305-733-3450
NY	Carnes Assoc Center	516-261-8100

FREQUENCY SOURCES SUB LORAL CORP
 16 MAPLE RD CHELMSFORD
 MA 01824 TWX 710-343-6506
 F BASHORE EMP 500 ENG 75 OVER \$10,00K

FRYE ELECTRONICS INC 9826
 SW TIGARD BOX 23391 TIGARD
 OR 97223
 G FRYE EMP 35 ENG 4 \$1,000-\$2,500K

FSI CORP 335 LAKE HAZELTINE DR
 CHASKA MN 55318
 TWX 910-578-0830
 P POPE EMP 246 ENG 20 OVER \$10,00K

AZ	Hecht-Henschen Phoenix	602-275-4411
CA	Bollinger & Assoc Chatsworth	213-882-8171
CA	FSI Sunnyvale	408-745-1214
CO	HRC Inc Coco Springs	303-598-4711
IL	R W Venn Co Lake Villa	312-395-5353
IN	Ken Oliver Assoc Dayton	513-298-1417

MD	Technical Sys Crofton	301-261-6600
MA	FSI Corp Northeast Wellesley	617-235-4260
MO	W A Shaw Co Leawood	816-361-3010
NJ	Metron Inc Allamuchy	201-361-7010
NY	Feikert Assoc Liverpool	315-652-5577
OR	Dryden Eng Co Beaverton	503-644-7070
PA	FSI Corp East Allentown	215-435-5681
TX	Metron Central Dallas	214-234-1411

FSI/FORK STANDARDS INC
 666 WESTERN AVE LOMBARD
 IL 60148
 A RAMIREZ EMP 14 ENG 2

FTS SYSTEMS INC BOX 158 RT 209
 STONE RIDGE NY 12484
 TWX 510-247-0547
 EMP 55 ENG 3

FUJI ELECTRIC CORP OF AMERICA
 727 W 7TH ST LOS ANGELES
 CA 90017 TWX 677318
 M DEGUCHI EMP 25 ENG 5 OVER \$10,00K
 NJ Fuji Electric Lincoln Park
 TX Fuji Electric Houston

FUJITSU COMPONENT OF AMERICA INC
 918 SHERWOOD DR LAKE BLUFF
 IL 60044 TWX 910-651-2259
 G LARSEN EMP 39 ENG 8 OVER \$10,00K

AZ	Sanford Sales Assoc Phoenix	602-957-3570
CA	Semi-Conductor Sales Tustin	714-731-9206
CA	Applied Elctn Mktg San Jose	408-971-9377
CO	Donohue Sales Denver	303-455-1719
FL	C Assoc Altamonte Springs	305-831-1717
GA	Tek-Rep Mktg Inc Lawrenceville	404-963-1600
IL	Bransky Sales Highland Pk	312-433-2375
KS	R W Kunz & Assoc Prairie Village	913-648-3535
MD	Component Sales Inc Baltimore	301-484-3647
MA	Electrical Components Natick	617-555-2225
MI	Dem Elctn Sales Warren	313-575-9444
MN	John C Twist Co Bloomington	612-835-1220
NJ	JMR Sales Parlin	201-254-8484
NY	Nycorn Inc E Syracuse	315-437-8343
NC	Robt W Chapman Co Charlotte	704-525-2421
OH	McFadden Sales Columbus	614-459-1280
PA	Pro-Mark Greensburg	412-832-3800
TX	United Components Inc Rowlett	214-475-8360
UT	Anderson Assoc Bonifant	801-292-8991
WA	Whisler Sales Co Bellevue	206-643-1463
FR	Votron Electronics Concord, ON	416-669-9870

DISTRIBUTORS

CA	Cypress Elect San Jose	408-945-8400
CA	Cypress Electronics Torrance	213-533-6005
CA	Control Design Supply Buena Park	213-802-2429
CA	Control Design Supply San Carlos	415-592-4808
CO	CSID Inc Denver	303-292-9594
CO	Cypress Elect Wheat Ridge	303-431-2622
CT	Glynn Elect Yalesville	203-795-0711
CT	Milgray Electronics Orange	203-265-2498
FL	Milgray Electronics Winter Park	305-647-5747
FL	Control Design Supply Altamonte Sprgs	305-788-3220
GA	Control Design Supply Stone Mtn	404-979-3500
GA	Milgray Electronics Atlanta	404-393-9666
GA	Prehler Elect Atlanta	404-447-5540
IL	Classic Comp Supply Northbrook	312-272-9565
IL	Hawk Elect Wheeling	312-459-4030
IL	Lectro Components Carol Stream	312-690-0520
IL	Milgray Elect Bensenville	312-350-0450
IL	Prehler Electronics Chicago	312-384-6101
IN	Classic Component Supply Indpls	317-872-4777
IN	Control Design Supply Indpls	317-788-0551
IA	Control Design Supply Marion	319-373-2923
KS	Milgray Electronics Overland Pk	913-236-8800
KS	L-Comp Wichita	316-265-5100
ME	Longhill Electro-Tech Gray	207-657-2183
MD	Milgray Electronics Rockville	301-468-6400
MA	Glynn Elect Middleboro	617-947-4262
MA	Milgray Elect Burlington	617-272-6800
MI	Prehler Elect Farmington Hills	313-473-7200
MN	Bergquist Mpls	612-835-2322
MN	Control Design Sply Mpls	612-721-1628
MO	L-Comp Maryland Hts	314-291-6200
MO	Control Design Supply St Louis	314-426-3160
NE	Radio Equip of Omaha Omaha	402-341-7700
NJ	Vantage Electronics Nutley	201-667-1840
NJ	Milgray Electronics Marlton	609-983-5010
NY	Milgray Elect Farmingdale	516-420-9800
NY	Pride Electronics Farmingdale	516-293-4020
NY	Milgray Electronics Pittsford	716-385-9330
NY	Vantage Elect Commack	516-543-2000
NY	Summit Distr Buffalo	716-887-2800
NC	Control Design Supply Charlotte	704-588-4410
NC	Prehler Elect Raleigh	919-876-9111
OH	Repro Solon	216-248-8900
OH	Milgray Electronics Cleveland	216-447-1520
OH	Prehler Elect Middleburg Heights	216-243-5510
PA	Advacom Inc McKean	814-476-7774
PA	Cumberland Electronics Harrisburg	717-232-5999
TX	Control Design Supply Dallas	214-358-1441
TX	Cypress Electronics Dallas	214-869-1435
TX	Milgray Elect Dallas	214-248-1603
WA	Integrated Electronics Bellevue	206-455-2727
WI	Classic Comp Supply New Berlin	414-786-5300
WI	Badger Elect Part Co Racine	414-637-1256
WI	Control Design Sply New Berlin	414-784-1016

FUJITSU COMPONENTS OF AMERICA INC
 3320 SCOTT BLVD SANTA CLARA
 CA 95054 TWX 910-338-0190
 J FOSTER
 ADV PGS 235,395

FUJITSU AMERICA STORAGE PRODS DIV		
3055 ORCHARD DR SAN JOSE		
CA 95134 TWX 910-338-2193	408-946-8777	
R RAFALOVICH		
CA Fujitsu America Irvine	714-553-1250	
GA Fujitsu America Atlanta	404-953-0130	
IL Fujitsu America Schaumburg	312-310-4434	
MA Fujitsu America Burlington	617-229-6310	
MN Fujitsu America Bloomington	612-835-0573	
PA Fujitsu America Malvern	215-648-3958	
TX Fujitsu America Austin	512-346-5342	

DISTRIBUTORS		
AZ Frontier Technology Scottsdale	602-998-4438	
CA Dex Corp Sunnyvale	408-985-8181	
FL Gentry Assoc Orlando	305-859-7450	
IL First Rep Co Elmhurst	312-530-2450	
MD Mesa Technology Gaithersburg	301-948-4350	
MA S & S Elect Lowell	617-273-0115	
MN Stan Clothier Co Mnpls	612-944-3456	
NY Cameron Computers Rochester	716-427-8190	
OH Micron Tec Columbus	614-451-2400	
PA Hopkins Assoc Conshohocken	215-828-7192	
TX Dallas Digital Plant	214-424-2800	
UT R2 Marketing Salt Lake	801-595-0631	
FR Miccos Computer Sys Mississauga		
ON	416-624-0320	

FUJITSU MICROELECTRONICS INC		
3320 SCOTT BLVD SANTA CLARA		
CA 95051 TWX 910-338-0190	408-727-1700	
G BETHEC EMP 33000 OVER \$10,000K		
AZ Novus Huntsville	205-881-2207	
AL Thom Luke Sales Scottsdale	602-941-1901	
CA Harvey King Inc San Diego	619-587-9300	
CA Norcomp Santa Clara	408-727-7707	
CO Front Range Mktg Boulder	303-443-4780	
FL Semtronix Assoc Altamonte Sprgs	305-831-8233	
GA Novus Lilburn	404-381-1015	
ID Cascade Boise	208-343-9886	
IL Beta Technology Glendale Hts	312-790-9886	
IN Gaertner Assoc Indpls	317-842-0373	
IA Electronic Sales Cedar Rapids	319-362-6413	
KS Kebo Inc Overland Park	913-541-8431	
MD Components Sales Baltimore	301-484-3647	
MA Mill-Bern Burlington	617-273-1313	
MI AP Assoc Brighton	313-229-6550	
MN Electromec Sales Inc Burnsville	612-894-8200	
MO Kebo Inc Maryland Hts	314-576-4111	
NJ TAM Cedar Knolls	201-285-9094	
NY Quality Components Manlius	315-682-8885	
NY Rahco Elect Sales Pleasantville	203-629-7666	
NC Novus Raleigh	919-872-3966	
OH Bear Marketing Richfield	216-659-3131	
OK Genzel Sales & Assoc Tulsa	918-622-7744	
OR L-Squared Ld Beaverton	503-644-8555	
UT Front Range Mktg SLC	801-364-6481	
WA L-Squared Ld Seattle	206-526-0641	
WI Beta Technology Mukwonago	414-363-5086	
FR Pipe-Thompson Ltd Islington ON	416-236-2355	
FR Mill-Bern Santurce	809-722-6942	

DISTRIBUTORS		
AL Marshall Huntsville	205-881-9235	
AZ Cetec Elect Phoenix	602-272-7951	
AZ Marshall Ind Tempe	602-968-6181	
CA Cetec Elect Southgate	213-773-6521	
CA Cetec Elect San Diego	619-278-5020	
CA Time Elect Sunnyvale	408-734-9888	
CA Time Elect Torrance	213-320-0880	
CA Marshall Ind El Monte	818-442-7204	
CA Marshall Ind Irvine	714-660-0951	
CA Image Elect Tustin	714-730-0303	
CA Western Microtechnology		
Cupertino	408-725-1660	
CO Marshall Ind Denver	303-427-1818	
CO Insight San Diego	619-587-0471	
CT Marshall Ind Wallingford	203-265-3822	
CT Milgray Orange	203-795-0711	
FL Time Elect Ft Lauderdale	305-974-4800	
FL Marshall Ind Orlando	305-841-1878	
FL Milgray Ft Winter Pk	305-647-5747	
GA Marshall Ind Norcross	404-923-5750	
GA Milgray Atlanta	404-393-9666	
IL Classic Components Northbrook	312-272-9650	
IL Intercomp Inc Hoffman Estates	312-843-2040	
IL Marshall Ind Schaumburg	312-490-0155	
KS Milgray Overland Pk	913-236-8800	
MD Marshall Ind Gaithersburg	301-840-9450	
MD Milgray Columbia	301-995-6169	
MA Milgray Elect Burlington	617-272-6800	
MA Time Elect Peabody	617-532-6200	
MA Marshall Ind Burlington	617-272-8200	
MA Interface Elect Hopkinton	617-435-6858	
MI Reptrom Livonia	313-525-2700	
MI Calder Elect Grand Rapids	616-698-7400	
MN Marshall Ind Plymouth	612-559-2211	
MN Diplomat Plymouth	612-559-2500	
MO Time Elect St Louis	314-391-6444	
NJ Marshall Ind Mt Laurel	609-234-9100	
NJ Milgray Marlton	609-983-5010	
NJ Vantage Clifton	201-777-4100	
NY Current Components Hauppauge	516-273-2600	
NY Milgray Elect Farmingdale	516-420-9800	
NY Marshall Ind Johnson City	607-798-1611	
NY Marshall Ind Hauppauge	516-273-2424	
NY Marshall Ind Rochester	716-235-7620	
NY Master Dist Hauppauge	516-273-4422	
NY Rome Dist Rome	315-337-5400	
NY Diplomat Melville	516-454-6400	
OH Marshall Ind Dayton	513-236-8088	
OK Radio Inc Tulsa	918-587-9123	
OR Western Microtechnology		
Beaverton	503-629-2082	
PA TimeElect Mid Atlantic		
King of Prussia	215-337-0900	
TX Marshall Ind Dallas	214-233-5200	
TX Marshall Ind Houston	713-789-6600	
TX Diplomat Dallas	214-980-1888	
UT Diplomat SLC	801-486-4134	

WA Marshall Ind Bellevue	206-747-9100	
WA IEC Bellevue	206-455-2727	
WA Western Microtechnology Redmond	206-881-6737	
WI Marsh Elect Milwaukee	414-475-6000	
WI Classic Components New Berlin	414-786-5300	
FR Future Elect Corp Pte Claire PQ	514-694-7710	
FR Carsten Elect Ltd Scarborough ON	416-495-7705	
FR Great Northern Technologies		
Burnaby	604-430-6677	

FULLER BRUSH CO MACHINE DIV		
381 E GOVERNORS HWY		
SOUTH WINDSOR CT 06074	800-243-2884	
F MEUNIER		

FURANE PRODUCTS CO 5121		
SAN FERNANDO RD W LOS ANGELES		
CA 90039 TWX 910-497-2060	818-247-6210	

FURNAS ELECTRIC CO 1000 MCKEE ST		
BATAVIA IL 60510 TWX 720-458	312-879-6000	
EMP 1250 ENG 22 OVER \$10,000K		
AL Austin Brown Assoc Birmingham	205-822-6198	
AZ Mahaffey & Assoc Phoenix	602-991-9790	
AR Controls & Power Little Rock	501-661-1737	
CA Furnas Elec Co San Francisco	415-887-8600	
CA Calhoun & Poxon Co L A	213-225-2328	
CO Peterson Co Denver	303-388-6322	
CT Tullimier Assoc Hartford	203-659-3531	
FL J Carl Turner Assoc Miami	305-758-4779	
GA Austin Brown Assoc Atlanta	404-457-6381	
IL Furnas Electric Co Chicago	312-789-3606	
IN Neal Eng Co Indianapolis	317-849-4201	
IA Furnas Electric Co Des Moines	515-243-0799	
KS Cleaves-Bessmer-Marietti		
Kansas City	816-353-6011	
LA Neal Eng Co Louisville	502-966-8787	
LY Mackenroth-Robbins & Assoc		
New Orleans	504-733-7524	
MA Electrical Components Inc Boston	617-655-2225	
MI Furnas Elec Co Detroit	313-588-8150	
MN Harold Mercer Co Mnpls	612-937-7111	
MO Mocker & Assoc St Louis	314-227-4777	
G & G Engrd Sales Omaha	402-333-1900	
NJ Furnas Elec Co Fairfield	201-227-5122	
NY Application Specialists Syracuse	315-437-2813	
NY H C Zang Agency Buffalo	716-877-3677	
NC R W Chapman & Co Charlotte	704-525-2421	
OH Motion Control Components		
Cleveland	216-526-6511	
OK Industrial Sales & Eng Co Tulsa	918-743-3610	
OR Dayne Hansen & Assoc Portland	503-297-1656	
PA Foster McClintion Inc Pittsburgh	412-941-4800	
SC Robt W Chapman & Co Greenville	803-288-8821	
TN Controls & Power Memphis	901-332-0036	
TX Furnas Electric Dallas	214-239-9864	
UT Bruce-Emmett Co SLC	801-973-7454	
VA Marchant & Field Sales Richmond	804-282-7227	
WA Dayne Hansen & Assoc Seattle	206-248-1884	
WV Foster McClintion Inc Huntington	304-757-6645	
WI H Mercer Co Milwaukee	414-786-6431	

FURUNO USA INC 271 HARBOR WAY		
SO SAN FRANCISCO CA 94083		
TX 331-419	415-873-9393	
D ABBOTT EMP 50 ENG 5 OVER \$10,000K		

FUSECOM 14864 NE 95 ST REDMOND		
WA 98052	206-881-2442	
R HART EMP 4 \$500-\$1,000K		

FUSECOM INC 393 EARHART WAY		
LIVERMORE CA 94550	415-449-1313	
I HENDRICKS EMP 10 \$1,000-\$2,500K		
WA Fusecom Redmond	206-881-2442	

FUSES INC 11010 SWITZER AVE		
DALLAS TX 75238	214-341-6407	
S MAYES EMP 10 ENG 2 \$1,000-\$2,500K		

FUSES UNLIMITED 9300 MASON AVE		
CHATSORTH CA 91311		
TX 880519	818-882-1515	
B BARNOT EMP 40		
ADV PG 197		

CA Fuses Unltd Toll Free In CA	800-228-5715	
CA Fuses Unltd Toll Free Outside CA	800-255-1919	
Bussmann, English Electric, Fuse Indicator		
Corp, General Electric, Gould Shawmut, Littlefuse,		
Marathon and Westinghouse		

FUSITE DIV EMERSON ELECTRIC CO		
6000 FERNVIEW AVE CINCINNATI		
OH 45212 TWX 810-461-2810	513-731-2020	
J GILLIGAN EMP 200 ENG 10		

FUTRONIX INC BOX 2269 SUNNYVALE		
CA 94087	408-735-1122	
T JAY EMP 8 ENG 2 \$100-\$250K		

FUTURENET CORP 6709 INDEPENDENCE		
AVE CANOGA PARK CA 91303		
TX 910-494-2681	818-700-0691	
R LEE		

FX SYSTEMS CORP CPO BOX 1818		
KINGSTON NY 12401 TWX 4992607	914-338-0515	
ENUTTER EMP 60 ENG 3 \$1,000-\$2,500K		
AL Kemp Instruments Huntsville	205-837-4304	
CA Westech Fullerton	714-680-0933	
CO R A Mayes Co Englewood	303-761-9447	
GA Kemp Instruments Atlanta	404-452-8050	
NM R A Mayes Co Albuquerque	505-292-2330	
NY Tee-Rep Inc Binghamton	607-772-6952	
PA Stein Inst Corp Jenkintown	215-885-2370	
TX Collinsystems Pro-Quip Houston	714-464-9428	

GABRIEL ELECTRONICS INC BOX 70		
SCARBOROUGH ME 04074		
TX 95-0113	207-883-5161	
D CRISMAN EMP 225 ENG 15 \$5,000-\$10,000K		
CA Gabriel Electronics Santa Rosa	707-576-1126	
MO Gabriel Electronics St Louis	314-878-2982	

GAERTNER SCIENTIFIC CORP		
1239 WRIGHTWOOD AVE CHICAGO		
IL 60614	312-281-5335	
R KUTKO EMP 87 ENG 10 \$5,000-\$10,000K		

GAI-TRONICS CORP BOX 31 READING		
PA 19603 TWX 836 458	215-777-1374	
D MOLL JR EMP 200 ENG 15 OVER \$10,000K		

AL Spader & Assoc Birmingham	205-879-1366	
AZ Frank W Gorman Co Phoenix	602-956-9820	
CA Bes-Co Dublin	415-829-2927	
CA Matzinger-Keegan Long Beach	213-434-5794	
CO Cliff Beabout Co Denver	303-831-7259	
FL Automation Specialists		
West Palm Beach	305-832-0565	
GA Spader & Assoc Decatur	404 296-3024	
IL Surin-Westerman Ltd Hinsdale	312-486-1616	
IN Bohannon & Assoc Cinc OH	513-522-1958	
KS Matney & Co Lenexa	913-888-9000	
LA Automation Specialists Kenner	504-466-1666	
MA Danek Assoc Needham Hts	617-444-8838	
MI Webco Inc Detroit	313-862-4673	
MN Act Elects Edina	612-937-9680	
MO Geo Dubois St Louis	314-842-5171	
NE Matney & Co Ralston	402-331-7330	
NJ Power Conversion & Cont		
Englewood Cliffs	201-569-0015	
NM Gorman Eng Co of NM Albuq	505-247-1596	
NY V J Brown Buffalo	716-839-4232	
NC Gal-Tronics Corp Charlotte	704-392-8333	
OH L W Cable Cleveland	216-662-1171	
OK Matney & Co Okla City	405-682-4557	
PA Foster-McClintion Inc Hurricane		
WV	304-757-6645	
TX Gal-Tronics Corp Houston	713-680-1980	
UT Pelton Equip Co S L C	801-484-3522	
WA J P Whalen Co Bellevue	206-747-2191	
FR Geuge-Seed Egypt Ltd Concord ON	416-665-0555	
FR C T H Inst Central Ltd		
St Lambert PQ	514-671-9396	
FR Intek Entrps Ltd Edmonton AB	403-451-5734	

GALILEO ELECTRO-OPTICS CORP		
GALILEO PARK STURBRIDGE		
MA 01518 TWX 710-347-1190	617-347-9191	
M HAYES EMP 300 ENG 30 OVER \$10,000K		

GALIL MOTION CONTROL 1928A		
OLD MIDDLEFIELD RD MOUNTAIN		
VIEW CA 94043 TWX 171-409	415-964-6494	
L WADE EMP 10 ENG 4		
AZ Flexible Technology Phoenix	602-996-6421	
CA Motion Technology Chatsworth	818-780-8868	
CO Integrated Motion Sys Littleton	303-794-7973	
FL Machine Controls Altamonte		
Springs	305-788-6606	
IN Shaum Manufacturing Elkhart	219-264-0771	
MA Servo Components & Sys Andover	617-475-1621	
NJ Precision Motion Sales		
Williamstown	609-629-4757	
NY Precision Motion Sales Glencove	516-676-1645	
NY Ross Equip Co Rochester	716-271-5660	
OH Cygnus Inc Medina	216-725-1663	
OR Cascade Data Mktg Beaverton	503-641-9266	
TX Automated Motion Control Dallas	214-340-4192	
VA Engineering Mktg Roanoke	703-986-1410	

GAMBLE INDUSTRIES, CHARLES T		
605 PERKINS LA DELANCO		
NJ 08075	609-461-1900	
C GAMBLE JR EMP 125 ENG 2 \$1,000-\$2,500K		
AZ Semi Systems AZ Scottsdale	602-991-1151	
CA J M Assoc 560 Oxford Palo Alto	415-857-1260	
CA Electro-Mech Sales Costa Mesa	714-642-2390	
FL EPM Corp Margate	305-752-0054	
IL Crimson Engrg Co Glenview	312-470-0024	
IN Insul-Reps Indpls	313-251-1994	
MA A & M Electronics Needham	617-444-8170	
MI L Electronics Novi	313-349-3304	
MN Berger & Assoc Mnpls	612-560-3435	
NJ TAI Corp Bellmawr	609-933-2600	
NJ Winch Sales E Brunswick	201-828-4615	
NY Lloyd Hart Assoc Rochester	716-244-3253	
NC AOI Co Smithfield	919-934-8136	
TN Insul-Reps Knoxville	615-691-7586	
VA Stinson Assoc Reston	804-973-2678	
FR R A Garcia-Acosta Rio Piedras PR	809-754-7730	

GAMMA-F CORP 3111 FUJITA ST		
TORRANCE CA 90505	213-539-6704	
F HENDRICKSON		
CA Graef Microwave Mktg Campbell.....	408-866-0931	
FL Microwave Mktg Inc Winter Park	305-678-2141	
GA Microwave Mktg Inc Marietta.....	404-425-5137	
TX Carey, McMahon, Zerbe		
Co Garland	214-681-1414	

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NAUTILUS AVE GARDEN GROVE
CA 92643 714-554-0773
J SHEA EMP 10 \$1,000-\$2,500K

GANDOLF DATA INC 1020 S NOEL AVE
WHEELING IL 60090
TWX 910-651-4951 312-541-6060
M SALUSTRI EMP 300 ENG 5 OVER \$10,000K

AL FM Assoc Ltd Box 1368 Huntsville 205-882-0689
AK John Drew & Assoc Anchorage 907-345-1900
AZ Zeus Elctns Phoenix 602-263-6022
CA Gandalf Data San Francisco 415-571-6100
CO Zeus Elctns Denver 303-321-4246
CT Gandalf Data Yalesville 203-269-2693
FL FM Assoc Ltd Orlando 305-851-5734
GA FM Assoc Ltd Atlanta 404-447-5425
HI Data Management Assoc Honolulu 808-943-1944
MD Terminal Networks Silver Spring 301-649-6000
MA Gandalf Data Dedham 617-329-7630
MI Arc Assoc Ann Arbor 313-973-1133
MN RAE Assoc Mnpls 612-941-3221
MO Gandalf Data St Louis 314-878-8099
NJ Tecinimat Inc Englewood 201-569-4200
NM Zeus Elctns Albuquerque 505-842-6633
NY Communications Technology
E Rochester 716-244-4431
NC FM Assoc Ltd Ramseur 919-824-2196
OH Arc Assoc West Lake 216-835-8400
PA Arc Assoc Pittsburgh 412-681-8609
TX Gandalf Data Dallas 214-980-2690
UT Zeus Elctns SLC 801-534-0500
WA Gandalf Data Redmond 206-881-1994
FR Gandalf Data Ltd Nepean ON 613-226-6500

DISTRIBUTORS

IL AHL Data Sys St Charles 312-377-9217

GAP INSTRUMENT CORP 40
OSER AVE BOX 4600 SMITHTOWN
NY 11787 TWX 510-227-6237 516-273-0909
H TORTI EMP 34 ENG 5 \$1,000-\$2,500K

GARDINER SOLDER CO 4820
S CAMPBELL AVE CHICAGO
IL 60632 TWX 910-221-2510 312-847-0100
J SEYDA

AZ Tooltronics Phoenix 602-257-0768
CA Gardiner Solder Co La Mirada 714-994-6350
CO Sherwood Entrps Longmont 303-442-5499
FL Jim Kennedy & Assoc Merritt
Island 305-452-9821
GA Electrical Concepts Inc Tucker 404-491-3154
IA Johnson Mfg Co Box 96 Princeton 319-289-5123
MA Yankee Tech Sales Woburn 617-935-6278
MI Fred Harris & Assoc E Detroit 313-776-5430
MN TLC Electronics Roseville 612-483-2226
MO Thos L Dowell Assoc St Louis 314-849-4234
NJ Gardiner Solder Scotch Plains 201-232-1965
NY Hurley & Caruso Assoc Fairfield 201-227-6568
NC Electro-Rep Assoc Charlotte 704-527-2530
PA Classen Doolittle Assoc York 717-741-1689
TX P J Scanlon Co Dallas 214-231-4661
VA Classen Doolittle Assoc
Annandale 703-750-3707
WA Doland Co Bellevue 206-454-4952
FR Electronic Sales Assoc
Rio Tiedras PR 809-762-6459

DISTRIBUTORS

AL Electrical Insul Supp Birmingham 205-252-9046
AZ Electrical Specialty Phoenix 602-275-5736
CA Macdonald & Co Glendale 818-241-1101
CA RGB Electro Indus Tool
& Sply Santa Clara 800-538-7756
CA Casco San Diego 619-560-9319
CA Electrical Specialty So
San Francisco 415-589-9611
CO Electrical Specialty Denver 303-321-0226
CT Astech Wallingford 203-265-4241
FL Mavidon Entrps Stuart 305-298-7324
FL Your Production Cupboard
Clearwater 813-447-2581
GA Electrical Insul Suppliers
Atlanta 404-355-1651
IL Intl Soldering Supplies Addison 312-628-8083
IL Complete-Reading Hillside 312-547-5400
IL Fay Elec Wire Chicago 312-267-9222

IN Complete Reading Indpls 317-872-3710
KS Complete Reading KC 816-471-5966
KY Electrical Insul Supp Louisville 502-636-0384
LA Complete Reading New Orleans 504-733-9435
MD Complete Reading Baltimore 301-646-1330
MA Pacer Elect Woburn 617-935-8330
MI Complete Reading Warren 313-755-6020
MN Cassidy Elect Eden Prairie 612-944-0100
MN Nordic Electronics St Paul 612-228-9027
MO Complete Reading KC 816-471-5966
NJ Fay Elec Wire Westville 609-881-7461
NY Complete Reading Liverpool 315-457-1350
NY Pacer Elect Fairport 716-377-0462
NY SAI Farmingdale 516-293-2710
NC Electrical Insul Supp Raleigh 919-781-4750
OH Argent Industries Englewood 513-836-8633
OH Complete Reading Cleveland 216-827-8891
OK Complete Reading Okla City 405-682-0200
OR Electrical Specialty Portland 503-227-3601
PA Complete Reading Pittsburgh 412-788-1580
PA Pytronic Ind Montgomeryville 215-643-2850
TN Electrical Insul Supp Memphis 901-947-4176
TX Complete Reading Houston 713-691-0080
TX Electrical Specialty El Paso 915-594-8521
TX Fay Elec Wire Plano 214-422-2797
UT Electrical Specialty SLC 801-972-4184
VA Electrical Insul Supp Richmond 804-649-9221
WA Electrical Specialty Tukwila 206-241-1010
WA RGB Electro Ind Tool Kirkland 800-958-5811
WI Complete Reading Mequon 414-241-3880
WI Fay Elec Wire Oshkosh 414-426-0792

FR Electrical Insul Supp Carolina
PR 809-757-6565

GARDNER-DENVER 1333 FULTON ST
GRAND HAVEN MI 49417 616-842-0200

GAR ENTERPRISES INC 2029
N LINCOLN AVE PASADENA
CA 91103 818-798-0786
EMP 40 ENG 5

GARFIELD INDUSTRIES 810
E CAYUGA ST PHILADELPHIA
PA 19124 215-743-4653
J SAMITZ
CA Garfield Industries Call Collect 215-743-GOLD
RI Garfield Industries New England 401-751-3771
WI J Fried Milwaukee 414-964-2892
Toll Free Outside PA. . . 800-523-0968

GARLET CO BOX 3178 SCRANTON
PA 18505-3178 TWX 510-671-4533 717-457-7426
M GROVER EMP 150 ENG 4 \$2,500-\$5,000K

GARNER GLASS CO 177 S INDIAN
HILL BLVD CLAREMONT CA 91711 714-624-5071
J HYATT EMP 50 ENG 3

GASONICS DIV ATOMEL CORP
250 CAIBBEAN DR SUNNYVALE
CA 94086 TWX 71430 408-745-1340
M TOOLE EMP 120 ENG 4
CA Applied Matis Inc Sunnyvale 408-745-1340
GA Applied Matis Inc Indianatic 305-777-2898
MA Applied Matis Inc North Andover 617-682-0035
NJ GaSonics 201-586-9340
TX GaSonics Dallas 214-243-1677

GATES & CO INC GEORGE W
HEMPSTEAD TPK & LUCILLE
BOX 216 FRANKLIN SQUARE
NY 11010 516-352-2904
T SCHULZ JR EMP 9 ENG 2 \$500-\$1,000K

GATES ELECTRONIC CO INC
526 VAN NEST AVE BRONX
NY 10460 212-881-5900

GATES ENERGY PRODUCTS INC
BOX 5887 DENVER CO 80217
TWX 910-931-2658 303-744-4806
H JONES EMP 500 ENG 50 OVER \$10,000K
ADV PG 32
AZ DAR-C Inc Scottsdale 602-948-2240
CA Gates Energy Prod Ramona 619-789-1225
CO Gates Energy Prod Denver 303-744-4653

GA Gates Energy Prod Stone Mtn 404-292-5525
IL Gates Energy Prod Libertyville 312-367-9229
IN France Enterprises Greenfield 317-462-6098
MD Gates Energy Prod Towson 301-321-0852
MA Gates Energy Prod Maynard 617-897-6991
NJ Gates Energy Prod Somerville 201-359-2019
TX Gates Energy Prod Irving 214-259-6282
WA ECCO Mktg Seattle 206-364-0200

DISTRIBUTORS

AL Remco Huntsville 205-533-3763
AK Revl Com & Sys Anchorage 907-349-8790
AZ Electro Mkt Div Phoenix 602-991-0110
CA Nesco Van Nuys 213-781-0505
CA Rose Elect San Francisco 415-348-0483
CA Tauber Elect San Diego 619-274-7242
CA Energy Sales Mt View 415-969-0801
CA Battery Specialties LA 213-437-1801
CA Powell Elec San Jose 408-943-9020
CO Ragon Elect Denver 303-744-3601
FL Elect Equip Co Miami 305-871-3500
GA Texocom Atlanta 404-433-1838
HI Honolulu Elect Honolulu 808-949-5564
IL Joseph Elect Chicago 312-297-4200
IL LCOMP Inc Chicago 312-628-1400
IL Power-Pak Inc Chicago 312-966-6000
MD Capitol Radio Whisr Rockville 301-881-2270
MD Harco Elect Aberdeen 301-838-7990
MD Mark Electronics Beltsville 301-595-5040
MA Adcour Sharon 617-784-8123
MI AP Sales Detroit 313-229-6550
MN Stark Elect Mpls 612-332-1325
MO LCOMP KC 816-221-2400
MO LCOMP St Louis 314-291-8200
NJ Engineered Assemblies Clifton 201-340-0600
NY Summit Dist Buffalo 716-884-3450
NY TNR Technical Long Island 516-242-4800
NY Rochester Radio Sply Rochester 716-454-7800
NC Kirkman Elect Winston-Salem 919-722-9131
OH Helden Sales & Dist Cincinnati 513-793-7027
OH REH Elect Cleveland 216-248-1636
OH Electronics Marketing Columbus 614-299-4161
OR Micro Power Elect Portland 503-694-5353
PA Herbach & Rademan Phila. 215-426-1700
PA Powell Electronics Phila. 215-365-1900
TX Southwest Elect Houston 713-240-4000
TX Norvell Electronics Dallas 214-233-0020
UT Standard Supply Co SLC 801-486-3371
WA Priebe Elect Seattle 206-821-4695
WA Energy Sales Seattle 206-883-2343

GAVITT WIRE & CABLE CO INC
CENTRAL ST BROOKFIELD
MA 01506 617-867-6476

H CHESSON EMP 75 ENG 4
CA Long & Assoc Burlingame 415-327-1300
CO High Plains Mktg Englewood 303-792-2020
IL Ropak Cahill & Vogt Chicago 312-631-0070
MA Bahr Sales Co Spofford N H 603-352-5444
MI Plas-Tronics Inc Detroit 313-871-6011
MN S & R Component Sales Mnpls. 612-559-3090
NJ BGR Assoc Marlton 609-983-1020
NY F P Sales Albuquerque 505-345-5553
NM Andrews & Andrews Inc Huntington 516-692-8686
NC W R Joyce Assoc Charlotte 704-366-1798
OH Loesch Assoc Inc Rocky River 216-333-0077
TX Campion Sales Co Rowle 214-475-8313
FR Wilson Enterprises Toronto ON 416-766-051C

GAYNOR ELECTRIC CO INC
135 S MAIN ST BOX 316
THOMASTON CT 06787 203-283-4386

J SWANSON EMP 65 ENG 2 \$1,000-\$2,500K
CA Porter Co Chatsworth 818-700-0808
CT United Components Madison 203-245-4810
IL Control Sales Elk Grove Vlg 312-595-2110
MN Lestronix St Louis 612-926-8466
NJ P Tutschek Assoc Mtn Lakes 201-335-2029
OH Appliance Electronics Grand
River 216-257-8019
WI Control Sales Thiensville 414-242-4580

GCA/IC SYSTEMS GROUP 209
BURLINGTON RD BEDFORD
MA 01730 TWX 95-1257 617-275-5400
C COTTON

AZ GCA Tempe 602-894-9831
CA GCA Sunnyvale 408-730-5200
CA GCA Costa Mesa 714-641-3527
CO GCA Colorado Springs 303-598-2020
CT GCA Danbury 203-744-0176
FL GCA Orlando 305-851-6800
OR GCA Wilsonville 503-682-6067
PA GCA Allentown 215-266-9202
TX GCA Richardson 214-644-3000
UT GCA SLC 801-562-9406
VA GCA Essex Junction 802-879-4215

GCA/INSTRUMENTS & EQUIP GROUP
3737 W CORTLAND ST CHICAGO
IL 60647 TWX 254028 312-227-2660
L RUSSO EMP 400 ENG 20 OVER \$10,000K

GC ELECTRONICS DIV HOUSEHOLD INTL
400 S WYMAN ST ROCKFORD
IL 61101 TWX 383956 815-968-9661
V GIOVINGO EMP 300 ENG 3 OVER \$10,000K

GEARTRONICS CORP 124 CHELMSFORD
RD N BILLERICA MA 01862
TWX 710-350-7544 617-933-1400
F KEAN EMP 89 ENG 4 \$2,500-\$5,000K

GEMINI INC 103 MENSING WAY
CANNON FALLS MN 55009 507-263-3957
G PEARSON EMP 125 ENG 8 \$5,000-\$10,000K

AL L & D Inc Huntsville 205-837-1469
AR Leo Barker Co North Little Rock 501-834-2537
CA Jim Innes San Jose 408-225-3362
CA XBX Sales Orange 714-998-8200

CO	Delconec Inc Arvada	303-422-7023
SA	L & D Inc Atlanta	404-455-3483
L	JRS Assoc Palatine	312-991-6826
N	Century Elect Noblesville	317-849-2026
MA	Dick Taylor Co Cedar Rapids	319-364-2282
MA	Harman Assoc Brookline	617-232-6687
MA	Jay Marketing Plymouth	313-459-1200
MA	Hell's Terni Bloomington	312-854-2001
MA	Harris-Hanson St Louis	314-432-3611
MA	Reuse Packaging New York	212-939-6080
MA	Leonard D Allen Inc Syracuse	315-437-8387
MA	Fin Finnegan & Co Cleveland	216-238-5905
MA	Freedman-Malta Assocs King of Prussia	215-337-9211
MA	J Clay Co Dallas	214-350-1281
MA	Medax Murray	801-266-4545
MA	Larsen Assocs Wawatoosa	414-258-0529

MA	ENAVE INC 802 E LORD ST INDIANAPOLIS IN 46202	
	TXW 027-445	317-262-2000
	EMP 80 ENG 5 \$2,500-\$5,000K	

MA	EN/COMP INC 6 ALGONQUIN RD CANTON MA 02021	617-828-2008
	G NUTTER	
MA	Storex Corp Norwood	617-769-3400

MA	GENERAL AVIATION ELECTRONICS INC 802 E LORD ST INDIANAPOLIS IN 46202	
	TXW 27-445	317-262-2000
	W ROBBINS EMP 100 ENG 6	

MA	GENERAL CIRCUITS INC 95 MT READ BLVD ROCHESTER NY 14611	
	TXW 821 941	716-235-2880
	M SUHR EMP 620 ENG 7 OVER \$10,000K	
MA	General Circuits Anaheim	714-630-0131
MA	Cummings Assoc Milpitas	408-263-4692
MA	General Circuits Ft Lauderdale	305-492-5108
MA	General Circuits Highland Park	312-433-1020
MA	General Circuits Waltham	617-899-8837
MA	General Circuits West Milford	201-487-0242
MA	General Circuits Greensboro	919-292-2858
MA	General Circuits Austin	512-835-1263

MA	GENERAL COMPUTERS INC 1624 VETERAN AVE LOS ANGELES CA 90024	213 939-7687
	D SINKER EMP 10 ENG 2 \$100-\$250K	

MA	GENERAL DATACOMM SYSTEMS INC BOX 1238 MELBOURNE FL 32902	
	TXW 305-676-3795	305-676-3500
	T JENKINS EMP 29 ENG 4 \$2,500-\$5,000K	
MA	Z E Hacker Tempe	802-345-0450
MA	R Miller Alexandria	703-370-0774

MA	GENERAL DEFENSE CORP SYSTEMS DIV BOX 500 PINELLAS PARK FL 34290	
	TXW 810-866-0433	813-541-6681
	W CLARK EMP 450 ENG 39 OVER \$10,000K	

MA	GENERAL DIGITAL CORP 700 BURNSIDE AVE EAST HARTFORD CT 06108	203-528-9041
	J MILLINGTON EMP 65 ENG 5	

MA	GENERAL DIGITAL INDUSTRIES INC 7702 GOVERNORS DR HUNTSVILLE AL 35805	205-837-8305
	O STREET IV EMP 40 ENG 12 \$2,500-\$5,000K	

MA	GENERAL DIODE CORP 94 EAMES ST FRAMINGHAM MA 01701	617-879-0880
	A TANG EMP 45 ENG 8 \$500-\$1,000K	

MA	GENERAL EASTERN INSTRUMENTS CORP 50 HUNT ST WATERTOWN MA 02172	
	TXW 710-327-1444	617-923-2386
	S WEISMAN EMP 58 ENG 8 \$2,500-\$5,000K	
MA	Newcomb Assoc Huntsville	205-852-0304
MA	Paul Rosen Co Berkeley	415-526-8286
MA	Tech Science Intl Inc Santa Ana	714-558-6964
MA	Wade H Boggs Inc Maitland	305-647-2226
MA	B & B Inst Hammond IN	219-932-4474
MA	B & B Inst Indpls	319-251-3811
MA	Bi-Mac En Prod Co Louisville	502-267-5252
MA	Slaton & Assoc Metairie	504-455-3855
MA	SOC Assoc Silver Spring	301-439-3200
MA	Douglas Lee Assoc Harvard	617-456-8726
MA	G R Peters Assoc Troy	313-362-1220
MA	KIM Controls St Paul	612-636-9594
MA	Adelphi Inc St Louis	314-821-1232
MA	Roberts Eng Co Radmor PA	215-688-6525
MA	Burt Diezuff Assoc Albuquerque	505-299-0989
MA	ShorTech Orchard Park	716-662-6100
MA	Teck-Rep Eng Sales ml Westbury	516-997-7946
MA	Algay Controls Charlotte	704-568-4546
MA	G Drysdale & Assoc Cincinnati	513-528-2200
MA	Control Sys Cons Tulsa	918-622-8867
MA	L H Boleky Co Pittsburgh	412-761-8994
MA	JD Industries Houston	713-468-8087
MA	Instrumentation Sales S L C	801-943-1881
MA	Algay Controls Charlotte	704-568-4546
MA	Coccolich & Co Seattle	206-525-8952
MA	ASW Controls Downsview ON	416-630-5883
MA	Jerome & Francis Co N Vancouver BC	604-986-1286

MA	ECO AUTOMATION CONTROLS OPER BOX 8106 CHARLOTTESVILLE VA 22906	
	TXW 822441	804-978-5000
MA	GE MASD San Francisco	415-546-4268
MA	GE MASD Meridian	203-238-6860
MA	GE MASD Atlanta	404-262-6216
MA	GE MASD Oak Brook	312-986-3133
MA	GE MASD Troy	313-552-3020
MA	GE MASD Florham Park	201-966-5439
MA	GE MASD Blue Ash	513-530-7210

TX	GE MASD Dallas	214-688-6185
DISTRIBUTORS		
FR	GE MASD Philadelphia	215-241-5304
GEN ELEC CO CUSTOM INTEGRATED CIRCUIT DEPT ONE MICRON DR RESEARCH TRIANGLE PK NC 27709		
	J BOUFAISSAL	919-549-3100
GEN ELEC CO GLASS & METALLURGICAL PRODS DEPT 24400 HIGHLAND RD CLEVELAND OH 44143		
	TXW 985569	216-266-2451
	ADV PGS 205,533	
MA	GE Westwood	617-762-6662
NJ	GE West Orange	201-736-5305
OH	GE Cleveland	216-266-8191
FR	Canadian GE Co Toronto ON	416-530-2731

GENERAL ELEC CO MOBILE COMMUNICATIONS DIV BOX 4197 LYNCHBURG VA 24502		
	TXW 710-871-1528	804-528-7000
	D E MILLER EMP 3000 OVER \$10,000K	

GENERAL ELEC CO NELA PARK CLEVELAND OH 44112		
		216-266-2121

GENERAL ELECTRIC CO ORDNANCE SYS DIV 100 PLASTICS AVE PITTSFIELD MA 01201		
		413-494-3634
	D HARRINGTON EMP 4500 ENG 1000 OVER \$10,000K	
DC	F Tiernan Washington	202-637-4528

GENERAL ELECTRIC CO PLASTICS GROUP ONE PLASTICS AVE PITTSFIELD MA 01201		
		800-845-0600

GENERAL ELEC CO QUARTZ PRODS DEPT 24400 HIGHLAND RD CLEVELAND OH 44143		
	TXW 297640	216-266-9058
CA	GE San Jose	408-298-4126
NJ	GE West Orange	201-736-5305
TX	GE Dallas	214-661-2793
FR	Canadian GE Co Toronto ON	416-530-2731

GENERAL ELECTRIC SEMICONDUCTOR BLDG 7 ELECTRONICS PARK SYRACUSE NY 13221		
	J BOUFAISSAL	315-456-3447

GENERAL ELECTRIC CO SILICONE PRODS DIV WATERFORD NY 12188		
		516-237-3330
	W WADSWORTH EMP 1200	

CA	GE-Silicone Prods Los Gatos	408-925-4126
CA	GE-Silicone Prods City Of Industry	818-965-3301
CO	GE-Silicone Prods Denver	303-329-2271
FL	GE-Silicone Prods Orlando	305-894-3174
GA	GE-Silicone Prods Atlanta	404-662-1080
IL	GE-Silicone Prods Oak Brook	312-986-3450
IN	GE-Silicone Prods Indpls	317-298-5316
KS	GE-Silicone Prods Overland Pk	913-967-6314
MA	GE-Silicone Prods Framingham	617-879-2985
MI	GE-Silicone Prods Southfield	313-356-3000
MN	GE-Silicone Prods Mpls	612-854-5140
MO	GE-Silicone Prods St Louis	314-426-9441
NJ	GE-Silicone Prods Cranford	201-276-5117
NC	GE-Silicone Prods Greensboro	919-292-5921
OH	GE-Silicone Prods Independence	216-447-1750
PA	GE-Silicone Prods Carnegie	412-566-4311
SC	GE-Silicone Prods Greenville	803-288-0920
TX	GE-Silicone Prods Dallas	214-233-5683
WA	GE-Silicone Prods Seattle	206-575-2920
WI	GE-Silicone Prods Milwaukee	414-464-4664
FR	Canadian GE Co Ltd Toronto ON	416-530-3000

GENERAL ELEC CO WIRE & CABLE DEPT 1285 BOSTON AVE BRIDGEPORT CT 06602		
	TXW 964209	800-252-0900
	R KULAKOWSKI EMP 1100 ENG 100 OVER \$10,000K	

FL	GE-Wire & Cable Jacksonville	398-9473
GA	GE-Wire & Cable Norcross	448-2324
IL	GE-Wire & Cable Oakbrook	986-3350
IN	GE-Wire & Cable Indpls	298-5337
MA	GE-Wire & Cable Waltham	647-7200
MA	GE-Wire & Cable Charlotte	372-8541
NC	GE-Wire & Cable Cleveland	523-5490
PA	GE-Wire & Cable King of Prussia	962-6119
TN	GE-Wire & Cable Nashville	259-4351
TX	GE-Wire & Cable Houston	978-5102

GENERAL ENGINEERING USA LTD BOX 718 SOUTH WINDSOR CT 06074		
	TXW 964212	203-526-4474
	G STEPHENS EMP 12 ENG 5	

GENERAL INDUSTRIES CO TAYLOR & OLIVE STS ELYRIA OH 44036		
	TXW 810-424-2109	216-323-3136
	B RAYNES EMP 1415 ENG 14 OVER \$10,000K	

AL	M Young Assoc Montgomery	205-284-1948
AR	Meredith Young Assoc Hot Springs	501-262-1365
CA	Halbar Assoc Glendale	818-246-8263
FL	R J Assoc Boynton Beach	305-736-1276
IL	K-W Assoc Prospect	312-253-6680
MI	Jack Broe Sales Granger	219-272-7868
NH	Leo Scarzello & Assoc Amherst	603-673-7746
NJ	Mech-Elec Sales Co Medford	609-654-8209
NY	Wm J Gillette II Inc Rochester	716-232-1179
OH	Mong & Assoc Mansfield	419-524-2835
SC	G P O Malley & Assoc Ltd Raleigh	919-848-9865
TX	Fred Schoeck & Assoc Dallas	214-369-3553
WA	Tempco NW Bothell	206-625-0180

GENERAL INSTRUMENT CORP DISCRETE SEMICONDUCTOR DIV 600 W JOHN ST HICKSVILLE NY 11802		
	TXW 510-221-1865	516-933-3333
	B GRAZIANO EMP 2800 ENG 200 OVER \$10,000K	
AL	Electro-Mech Huntsville	205-533-2100
AZ	Fred Board Assoc Scottsdale	602-984-9388
CA	Western Area HQ Canoga Park	818-982-0982
CA	Ewing-Foley Los Altos	415-941-4522
CA	Arigon Assoc El Segundo	213-322-1120
CO	Straube Assoc Westminster	303-426-0890
FL	Assoc Altamonte Springs	305-831-1717
GA	Electro-Mech Atlanta	404-447-6478
IL	Central Area HQ Arlington Hts	312-364-5880
IL	Metcom Assoc Park Ridge	312-969-1490
IN	Valentine & Assoc Greenwood	317-888-2260
IA	Dy-Tronix Inc Cedar Rapids	319-377-8275
KS	Dy-Tronix Inc Wichita	316-838-0834
MA	Bay Colony Reps Framingham	617-820-0607
MA	Rathsburg Assoc Detroit	313-882-1717
MN	Quantum Sales Bloomington	612-884-4700
MO	Dy-Tronix Inc Bridgeton	314-291-4777
NJ	Reid Assoc Teaneck	201-692-0200
NJ	Janco Technology Palisades Pk	201-941-4008
NY	Q A Elect Albuquerque	505-888-1121
NY	Quality Components Inc Buffalo	716-837-5430
NC	Zucker Assoc Raleigh	919-782-8433
OH	G & H Sales Co Cincinnati	513-272-0580
PA	Bresson Assoc Narberth	610-663-6460
PA	Russell F Clark Co Pittsburgh	412-242-9500
TN	Electro-Mech Jonesboro	615-753-2964
TX	Bonsor-Philhower Richardson	214-234-8438
UT	Straube Assoc S L C	801-263-2640
WA	Vantage Bellevue	206-455-3460
WI	Metcom Assoc West Allis	414-476-130
FR	Electronic Sales Assoc Rio Piedras PR	809-762-6707
FR	Pipe-Thompson Ltd Islington ON	416-236-2355

DISTRIBUTORS		
CA	Anthem Elect San Jose	408-295-4200
CA	Wyle Elect Irvine	714-863-9953
CA	Marshall Ind El Monte	213-442-7204
CA	Bell Ind Sunnyvale	408-734-8570
IL	Advent Elect Rosemont	312-298-4202
MD	Pioneer Elect Gaithersburg	301-921-0660
MA	A W Mayer Billerica	617-229-2255
MA	R M Grand Rapids	616-531-9300
NY	Arrow Elect Melville	516-694-6800
NY	Zeus Elect Portchester	914-937-7400
NY	ICI Elect Plainview	516-293-6630
TX	Hallmark Elect Dallas	214-343-5000
TX	Sterling Elect Houston	713-627-9800
FR	Future Elect Pte Claire PQ	514-694-7710

GENERAL INSTRUMENT CORP GOVT SYSTEMS DIV 600 W JOHN ST HICKSVILLE NY 11802		
	TXW 511512	516-933-3408
	A HECKLER EMP 550 ENG 150 OVER \$10,000K	

GENERAL INSTRUMENT CORP MICROELECTRONICS 600 W JOHN ST HICKSVILLE NY 11802		
	TXW 510-221-1868	516-733-3107
	W GSAND	

GENERAL INSTRUMENT LAMP DIV 4433 N RAVENSWOOD AVE CHICAGO IL 60640		
	TXW 910-221-5445	312-784-1020
	J FLANAGAN	

GENERAL INSTRUMENT/OPTOELECTRONICS DIV 3400 HILLVIEW AVE PALO ALTO CA 94304		
	TXW 470208	415-493-0400
	J BEACH EMP 400 ENG 40 OVER \$10,000K	
	ADV PG 298	

AL	Beacon Elects Huntsville	205-881-5031
CA	Landa/Minyard Inc LA	213-879-0770
CA	Harvey King Inc San Diego	619-566-5252
CO	D/J Assoc Westminster	303-429-9369
CT	Scientific Components Cheshire	203-272-2963
FL	Beacon Elect Maitland	305-647-3498
GA	Beacon Elect Atlanta	404-256-9640
IL	Sumner Inc Rolling Meadows	312-991-8500
IA	Lorenz Sales Cedar Rapids	319-377-4686
KS	Lorenz Sales Overland Pk	913-649-5556
MD	Beacon North Randallstown	301-655-2265
MA	Kanan Assoc Needham Heights	617-449-7400
MN	Mel Foster Tech Sales Edina	612-941-9790
NY	SYN Tech Albuq	505-266-7951
NY	Bob Dean Ithaca	607-257-1111
NY	Comtronic Assoc Melville	516-249-0505
NC	Beacon Elect Raleigh	919-787-0330
OH	Midwest Mktg Dayton	513-433-2511
OR	West Tech Sales Hillsboro	503-640-4621
PA	R F Clark Pittsburgh	412-242-9500
TN	Beacon Elect Johnson City	615-282-2421
TX	Southern States Mktg Richardson	214-238-7500
VA	Beacon North Forest	804-239-8486
WA	West Tech Sales Bellevue	206-641-3900
WI	Sumner Inc Brookfield	414-784-6641

FR Cesco Elect Montreal PQ..... 514-694-7710
FR Cardinal Elect Edmonton AB..... 403-483-6266

GENERAL KINETICS INC 12300
PARKLAWN DR ROCKVILLE
MD 20852 TWX 89-8378..... 301-881-2044
L SCHAPE EMP 162 ENG 6 \$5,000-\$10,000K

GENERAL LASER INC 7662 E GRAY RD
SCOTTSDALE AZ 85260..... 602-991-0674
J YARUSO EMP 9 ENG 3

AZ Rich Sales Co Tempe..... 602-968-7787
CO Phase 4 Inc Tempe..... 602-966-2018
FL Laser Parts Inc Maitland..... 305-645-5611
MD L B Products Reisterstown..... 301-833-9042
MA Enmark Assoc Boston..... 617-770-2557
MN LaserFab Systems Mnpls..... 612-546-4772
NJ Enmark Assoc Nutley..... 201-667-8114
OK Rich Sales Co Rockwell..... 214-257-0761
TX Rich Sales Co Austin..... 512-833-9042

GENERAL MAGNETICS INC 211
GROVE ST BLOOMFIELD NJ 07003..... 201-743-2700
R FROESE EMP 75 ENG 4 \$1,000-\$2,500K

GENERAL MICRO SYSTEMS INC
4740 BROOKS ST MONTCLAIR
CA 91763..... 714-625-5475
AZ I M Systems Tempe..... 602-438-1435
CA Basic Systems Corp Inglewood..... 213-673-4300
CA Basic Systems Corp Santa Clara..... 408-727-1800
CO I M Systems Bloomfield..... 303-469-5435
IN Carter McCormick & Peirce Indpls..... 317-244-1685
MA Northern Computer Sales Canton..... 617-821-2180
MI Carter McCormick & Peirce
Farmington Hills..... 313-477-7700
NY Crane & Egert Corp Elmont..... 516-872-0800
OH Carter McCormick & Peirce
Cleveland..... 216-779-5100
PA KSI King of Prussia..... 215-783-6400
TX Lelko-Paulsen Sales Dallas..... 214-680-9588
VA Scott Data Corp Alexandria..... 703-765-7901

GENERAL MICROWAVE CORP
5500 NEW HORIZONS BLVD
AMITYVILLE NY 11701
TWX 310-287-780..... 516-226-8900
P FERRY EMP 280 ENG 26 OVER \$10,000K
ADV PGS 274,445

AL Saber Assoc Huntsville..... 305-724-0920
AZ Odyssey I Phoenix..... 602-246-8846
CA R F Assoc Los Angeles..... 213-478-1586
CA R F Assoc Palo Alto..... 415-494-3331
CO Odyssey I Englewood..... 303-773-8176
FL Saber Assoc Melbourne..... 305-724-0920
IL Cain-Forlaw Co Mt Prospect..... 312 253-3578
MA Microwave Mktg Specialists
Burlington..... 617-272-7350
NJ EF Technical Sales West Orange..... 201-731-7203
NM Odyssey I Albuquerque..... 505-265-6645
NY EF Technical Sales Huntington..... 516-549-1818
NY Technical Component Sales
Rochester..... 716-342-2406
NC Saber Assoc Clayton..... 305-724-0920
OH Cain-Forlaw Co Lancaster..... 614-654-4800
PA Hes Assoc Andalusia..... 215-245-5250
TX Cain & Co Dallas..... 214-247-3901
VA Creative Mktg Assoc McLean..... 703-442-9100

GENERAL OPTRONICS CORP
2 OLSEN AVE EDISON NJ 08820
TWX 710-997-9556..... 201-549-9000
J DREYFUSS EMP 180 ENG 30

GENERAL POWER SYSTEMS DIV
ALS CORP 1400 N BAXTER ST
ANAHEIM CA 92806 TWX 182283..... 714-956-9321
M HEYMAN EMP 400 ENG 30

GENERAL RELIANCE CORP 10
KICE AVE BOX R WHARTON
NJ 07885 TWX 710-987-7929..... 201-361-1400
J LARK EMP 55 ENG 3 \$2,500-\$5,000K

GENERAL RESISTANCE INC
BOX 185 TWIN LAKES RD
N BRANFORD CT 06471
TWX 710-453-3092..... 203-481-5721
EMP 45 ENG 5

AZ Qualtech Inc Tempe..... 602-967-4655
CA Testco Saratoga..... 408-253-1900
CO J D Hurlbut Co Golden..... 303-279-7796
IL Marsland Assoc Des Plaines..... 312-298-2620
MA Meco Inc Reading..... 617-944-6660
MI Hummon & Assoc Farmington..... 313-474-0661
NJ CB Assoc Hillsdale..... 201-664-6230
NY Tae-Rep Inc Whitney Point..... 607-692-3705
OH Rixan Assoc Dayton..... 513-278-4216
RI Datacom Assoc Seattle..... 206-285-2525
TX Blackburn Assoc Dallas..... 214-692-8885
VA Beacon North Fairfax..... 703-591-1300

GENERAL RUBY & SAPPPIRE CORP
BOX 610 EBG NEW PORT RICHEY
FL 34291..... 813-849-0638
W MILLS EMP 10 ENG 4 \$500-\$1,000K
CA Wolff Engrg Corp Newport Bch..... 714-646-1754

GENERAL SCANNING INC 500
ARSENAL ST WATERTOWN MA 02172
TWX 443-0105..... 617-924-1010
H DUMAS EMP 200 ENG 18 OVER \$10,000K
CA General Scanning Los Gatos..... 408-358-1456
CA General Scanning Redondo Beach..... 213-543-4525
WI General Scanning Campbellsport..... 414-533-4312

GENERAL SCIENTIFIC EQUIPMENT CO
1821 JFK BLVD PHILADELPHIA
PA 19103..... 215-564-6366
D SMITH EMP 25 \$500-\$1,000K

GENERAL SEMICONDUCTOR INDUSTRIES
INC 2001 W 10 PL TEMPE
AZ 82281 TWX 910-950-1942..... 602-968-3101
J WILLIAMS

GENERAL TECHNOLOGY CORP
6816 WASHINGTON AVE NE
ALBUQUERQUE NM 87109..... 505-345-5591
R ANDERSON EMP 50 ENG 5
ADV PG 361

AZ K-Tec Tempe..... 602-966-7551
CA Fox Marketing San Jose..... 408-984-2221
CA Joe Cetinas Sales San Diego..... 619-487-3335
CO Romulus Electronics Englewood..... 303-770-4888
IL MM & I Des Plaines..... 312-296-1694
IA Beams Co Des Moines..... 515-255-1148
KS Beams Co Kansas City..... 913-631-0300
MO Beams Co St Louis..... 314-434-8448
NM Westfall & Assoc Albuquerque..... 505-881-0995
NY J-Square Mktg Jericho..... 516-935-3200
TN STEC Sales Chattanooga..... 615-899-6831

GENERAL TELEVISION NETWORK
13201 CAPITOL AVE OAK PARK
MI 48237..... 313-399-2000
R HIPPLER EMP 50 ENG 15 \$2,500-\$5,000K

GENERAL THERMODYNAMICS CORP
210 S MEADOW RD BOX 1105
PLYMOUTH MA 02360..... 617-746-0200
S LETO EMP 45 ENG 2 \$500-\$1,000K

GENERAL WIRE PRODUCTS INC
425 SHREWSBURY ST WORCESTER
MA 01614 TWX 710-340-0635..... 617-752-8260
EMP 45 ENG 3 \$5,000-\$10,000K

GENESIS MICROSYSTEMS 196
CASTRO ST MOUNTAIN VIEW
CA 94041 TWX 4998093..... 415-964-9001

GENEVA GROUP OF CO'S INC
7255 FLYING CLOUD DR
EDEN PRAIRIE MN 55344
TWX 510-600-5005..... 612-829-1724
J KUHN EMP 25 ENG 2

GENICOM CORP WAYNESBORO
VA 22980..... 703-949-1000
J TOWELL

CA W Garrity Westminster..... 714-895-1779
CT M Mellon Meriden..... 203-238-6876
IL R DeMars Rolling Meadows..... 312-577-1100
TX D Stigge Dallas..... 214-661-5137

GEN RAD INC 170 TRACER LA
WALTHAM MA 02254
TWX 710-347-1051..... 617-369-4400
EMP 3000 OVER \$10,000K

CA GenRad Irvine..... 714-540-9830
CA GenRad Santa Clara..... 408-727-0127
CO GenRad Colorado Springs..... 303-593-8238
FL GenRad Maitland..... 305-660-8250
IL GenRad Arlington Hts..... 312-557-1881
MD GenRad Columbia..... 301-964-1314
MA GenRad Waltham..... 617-890-4900
NJ GenRad Fairlawn..... 201-797-8001
OH GenRad Milford..... 513-831-9210
TX GenRad Richardson..... 214-234-3357
FR GenRad Ltd 307 Evans Ave
Mississauga ON..... 416-890-0160

GENSTAR RENTAL ELECTRONICS INC
6307 DE SOTO AVE WOODLAND
HILLS CA 91367 TWX 348-368..... 818-887-4000
J CUNNINGHAM EMP 160 ENG 30 OVER \$10,000K

FL Genstar Rental Elctns Orlando..... 305-859-0322
MD Genstar Rental Elctns
Gaithersburg..... 301-948-0620
MA Genstar Rental Elctns Woburn..... 617-938-0900
NY Genstar Rental Elctns Rochester..... 716-442-2340
TX Genstar Rental Elctns Dallas, TX..... 214-931-8770
FR Genstar Rental Elctns Toronto ON..... 416-675-7513
FR Genstar Rental Elctns Ville
St Laurent PQ..... 514-337-5575

GEN TERM CORP 1304A LOGAN AVE
COSTA MESA CA 92626
TWX 910-595-2428..... 714-662-0630
J SPENCER EMP 8 ENG 1 \$1,000-\$2,500K

GENTRON CORP 6667 N SIDNEY PL
MILWAUKEE WI 53209 TWX 26881..... 414-351-1660
W TENNIE EMP 100 ENG 10

AL MURCOTA Huntsville..... 205-539-8476
CA Steven Engrg San Francisco..... 415-588-9200
CA M W Riedel & Co Alhambra..... 213-283-7694
FL Over & Over Brandon..... 813-689-9104
IN Valentine & Assoc Greenwood..... 317-888-2260
MI Selmak Assoc Millis..... 617-376-2914
MI Alexander-Prendergast Detroit..... 313-534-9730
MN Furber-Smith Sales Mnpls..... 612-881-3620
MO Web Elctns Florissant..... 314-921-5720
NJ Winch Sales East Brunswick..... 201-828-4615
NY D L Eiss Assoc Rochester..... 716-328-3000
NC MURCOTA Winston-Salem..... 919-722-9445
OH Omega Sales Inc University Hts..... 216-381-1404
OR SPS Electronics Portland..... 503-285-0214
PA Fite-Petro Phila..... 215-248-3171
TX Dunbar Assoc Dallas..... 214-239-7151
WI Stumm Sales Mequon..... 414-241-8414

DISTRIBUTORS

CA Amcotec Santa Ana..... 714-957-3003
NC JMT Elect Supply Gastonia..... 704-867-4401

TX Allied Elect Fort Worth..... 817-336-5401
WI Seaker Electronics Union Grove..... 414-878-3727

GEORATOR CORP 9617 CENTER
ST BOX 70 MANASSAS VA 22110..... 703-368-2101
C TREZFGER EMP 50 ENG 6 \$5,000-\$10,000K
ADV PGS 9,141,286,330,333

GERBER SCIENTIFIC INSTRUMENT CO
83 GERBER RD W SOUTH WINDSOR
CT 06074 TWX 7104272218..... 203-644-1551
A JOYCE EMP 620 ENG 50 OVER \$10,000K

CA D Zamberlin San Jose..... 408-297-2224
CA R Kinney Tustin..... 714-259-0151
CO J Bonati Denver..... 303-753-6791
FL D Dickerson Clearwater..... 813-797-5033
GA R Uhlmann Atlanta..... 404-953-8483
IL J Merrill Burr Ridge..... 312-655-2903
KS J Rossini Overland Park..... 913-341-1940
MD B Buckser Rockville..... 301-840-0555
MI D Hoskins Lexington..... 617-862-2590
MI W Helgason Livonia..... 313-525-3003
MN M Giordano St Louis Pk..... 612-926-0620
NJ S Danna Ridgewood..... 201-652-1300
NY T Flynn Syracuse..... 315-432-0575
OH M McDonald Cincinnati..... 513-474-3955
PA J Clemens Blue Bell..... 215-643-4461
TX D Wilkins Richardson..... 214-235-4536
WA Dale Showalter Bellevue..... 206-746-6032
FR D Dorey Oakville ON..... 416-842-2802

GERMANIUM POWER DEVICES CORP
BOX 3065 SVS ANDOVER
MA 01810 TWX 94-7150..... 617-475-5982
R KASSIOTIS EMP 100 ENG 5 \$2,500-\$5,000K

CA Col-Rob Electronics San Diego..... 714-565-6814
CA Wm J Purdy Co Burlingame..... 415-347-7701
CA Wm J Purdy Co Sacramento..... 916-422-0128
CO Wm J Purdy Co Denver..... 303-777-1411
IL H Grubb & Co Addison..... 312-543-2880
IA Snider Sales Co Cedar Rapids..... 319-362-4410
KY K W Electronics Louisville..... 502-451-1860
MI KW Electronics Plymouth..... 313-459-5544
MN Grayden & Flemmer Edina..... 612-941-1120
NM Wm Purdy Co Albuquerque..... 505-266-7955
OH K W Electronics Dayton..... 513-890-2150
OH K W Electronics Shaker Heights..... 216-491-9177
OH K W Electronics Columbus..... 614-888-0483
PA K W Electronics Allison Park..... 412-487-4300
UT Wm Purdy Co Salt Lake City..... 801-486-8557
WI H Grubb & Co Milwaukee..... 414-545-7810

GETTYSBURG TRANSFORMER CORP
1380 OLD HARRISBURG RD BOX 99
GETTYSBURG PA 17325..... 717-334-2191
C RITTER EMP 70 ENG 2 \$1,000-\$2,500K

GGB INDUSTRIES INC PICOPROBE DIV
BOX 125 GILLETTE NJ 07933
EMP 12 ENG 3 \$1,000-\$2,500K..... 201-464-1745
MN Marketiers Corp Burnsville..... 612-890-5400
NJ Bob Most Assoc Newfoundland..... 201-697-0800

GHIEMMETTI INC 6290 SUNSET BLVD
LOS ANGELES CA 90028
TWX 9103212903..... 213-463-5111
D MENDOZA EMP 3 \$500-\$1,000K

AZ JY Engrg Phoenix..... 602-956-4670
IL Baltzer Hill Gray Assoc Elmhurst..... 312-832-4101
MA Sturgeon Co Needham Hts..... 617-444-6603
MN HMR Inc Mnpls..... 612-888-2122
NJ Design Electronics Paramus..... 201-645-6222
NY Compr Assoc White Plains..... 914-761-1041
TX Merco Sales Co Mesquite..... 214-931-5650

G & H TECHNOLOGY INC 750
W VENTURA BLVD CAMARILLO
CA 93010 TWX 910-336-1237..... 805-484-0541
C HUEBERT EMP 425 ENG 56 OVER \$10,000K

AZ SSA Inc Tempe..... 602-829-9338
CA Mackay Component Mktg Downey..... 213-861-4300
CA Ruppert Sales San Jose..... 408-998-8717
CO High Plains Marketing Denver..... 303-751-7111
FL Southland Components Ft
Lauderdale..... 305-491-6111
GA Mountain Electro Norcross..... 404-448-5599
IL Len Felder Assoc Wheaton..... 312-665-9077
IN Valentine & Assoc Greenwood..... 317-888-2260
IA Dy-Tronix Inc Cedar Rapids..... 319-377-8275
MD Technical Sales Inc Ellicott
City..... 301-461-2400

MN High Tech Sales Assoc
Bloomington..... 612-888-8088
MO Dy-Tronix Inc Bridgeton..... 314-731-5795
NH Sollatronics Nashua..... 603-882-7144
NJ GT Assoc Wayne..... 201-694-6044
OH Rixan Assoc Dayton..... 513-222-0011
OK Advanced Technical Sales Tulsa..... 918-664-0481
TX Advanced Technical Sales Dallas..... 214-340-1300
WA Gentech Redmond..... 206-881-6456

DISTRIBUTORS

CA Insulectro Costa Mesa..... 714-957-8099
MO Time Electronics St Louis..... 314-391-6444

GIBSON-EGAN CO 2666 E HUNTINGTON
DR DUARTE CA 91010..... 818-358-0199
G EGAN EMP 35 ENG 2

GIGABIT LOGIC 1908 OAK
TERRACE LA NEWBURY PARK
CA 91320 TWX 6711358..... 805-499-0610
B MESSICK EMP 130 ENG 45

AL Novus Group Huntsville..... 205-881-2207
AZ Quatra Assoc Tempe..... 602-820-7055
CA Pinnacle Sales Santa Clara..... 408-249-7400
CA Centaur Corp San Diego..... 619-278-4955
CO Waugaman Assoc Wheat Ridge..... 303-423-1021
CT New Eng Tech Sales Meriden..... 203-237-8827
FL Dyne-A-Mark Corp Ft Lauderdale..... 305-771-6507

GA	Novus Group Norcross	404-939-1135
MD	Delta III Assoc Columbia	301-730-4700
MA	Wayland Engrg Sales Natick	617-655-6080
MM	Comprehensive Tech Sales Mnpls	612-888-7011
NM	Quatra Assoc Albuquerque	505-821-1455
NY	SSC Assoc Jamaica	718-291-3232
NY	NYCOM Inc East Syracuse	315-437-9343
OR	Westerberg & Assoc Tigard	503-620-1931
PA	Knowles Assoc Feasterville	215-322-7100
TX	Southern Sales Mktg Richardson	214-238-7500
UT	Waugaman Assoc SLC	801-261-0802
WA	Westerberg & Assoc Bellevue	206-453-8881
FR	Cantec Reps Ottawa ON	613-725-3704

GILBRETH INTERNATIONAL CORP		
3300 STATE RD CORNWELLS HGTS		
PA	19020 TWX 510-667-1503	215-638-7100
H BEALMEAR EMP 150 \$5,000-\$10,000		
IL	Special Elec Co 1780 Maple St Northfield	
MO	Special Elec Co 19818 Mack Grosse Pt Woods	
MI	Special Elec Co 687 Marshall St Louis	
OH	Special Elec Co 5618 Hamlet Av Cleveland	
WI	Special Elec Co 3628 W Pierce Milwaukee	

DISTRIBUTORS		
NY	Insulation Plastics Cary	312-639-5117
NY	Cole-Flex West Babylon	516-249-6150
WA	Astra Elec Prod Edmonds	206-775-4507
FR	Dilwol Wires & Cable Mississauga ON	416-275-1001

GILLIES CO INC DUNCAN M		
66 CENTRAL ST WEST BOYLSTON		
MA	01583 TWX 6971405	617-835-4445
D GILLIES EMP 21 ENG 2		
IL	Mathers Assoc Elk Grove Vlg	312-640-1070

GILMONT INSTRUMENTS INC		
401 GREAT NECK RD GREAT NECK		
NY	11021	516-487-0120
I WEISS EMP 8 ENG 2 \$500-\$1,000K		

GILWAY TECHNICAL LAMP 165M		
NEW BOSTON ST WOBURN MA 01801		
TX	949 329	617-935-4442
R TARPY EMP 16 ENG 2 \$500-\$1,000K		

GIMIX INC 1337 W 37 PL CHICAGO		
IL	60609 TWX 910-221-4055	312-927-5510
R DON EMP 15 ENG 5 \$2,500-\$5,000K		

GKD ELECTRONICS 1901 E		
CARNEGIE AVE 1Q SANTA ANA		
CA	92705	714-261-2271
R HUNT		

GLAR-BAN DIV MARK IV INDUSTRIES		
199 WALES AVE TONAWANDA		
NY	14150 TWX 91578	716-694-5076
EMP 90 ENG 6 \$2,500-\$5,000K		

GLASS BEADS CO 580 MONASTERY DR		
LATROBE PA 15650		
D MARKS EMP 30 ENG 3 \$1,000-\$2,500K		
AZ	Sterns & Assoc Phoenix	602-996-9077
CA	Calif Tech Svcs Tarzana	408-496-1155
MO	DeSpain & Assoc Lee's Summit	816-525-0800
JO	Int'l Scientific Sales Ossining	914-762-0685

GLASSEAL PRODUCTS INC 485		
OBERLING AVE BOX 978 LAKEWOOD		
NJ	08701 TWX 710-723-8314	201-370-9100
J NICODEMI EMP 150 ENG 5		
Interconnect Specialties		
VA	Van Nuys	213-988-7620
CO	A G Eltns Englewood	303-771-8088
IL	Over & Over Fl Inc Orlando	305-857-4057
IL	Hill Sales Corp Rolling Meadows	312-259-5190
CA	Technical Sales Shawnee Mission	913-888-3330
GA	Near, Inc Scituate	617-545-6327
MO	Electro Serv Co Mnpls	612-827-2907
MO	Technical Sales Assoc St Louis	314-524-2570
NC	Over & Over Inc Charlotte	704-527-3070
OR	Dale G Weber Co Portland	503-234-7671
FR	D T Shaw Co Ltd W Islington ON	416-231-2706

GLASSMAN HIGH VOLTAGE INC		
RT 22 E SALEM PK BOX 551		
WHITEHOUSE STATION NJ 08889		
TX	710-480-2839	201-534-9007
EMP 60 ENG 6 \$2,500-\$5,000K		
AZ	Power Specialists Scottsdale	602-996-4100
CA	Power Specialists Los Alamitos	213-594-9418
VA	ICS Assoc Chelmsford	617-256-3350

GLASTIC CO 4321 GLENRIDGE RD		
CLEVELAND OH 44121		
I SWANSON EMP 350 ENG 15		
216-486-0100		

DISTRIBUTORS		
CA	Electrical Specialty Co San Fran	415-589-9611
CA	Electrical Insul Suppliers	
	Atlanta	404-355-1651
L	Complete-Reading Hillside	312-547-5400
L	Prehler Elect Insul Chicago	312-384-6100
MA	Insulfab Plastics Watertown	617-923-9800
MO	RM White & Assoc St Louis	314-291-0862
JO	Brownell Electro New York	212-924-6000
NY	Fabritron Alden	716-937-9167
NY	Curbell Inc Buffalo	716-873-9540
OH	Dayton Plastics Dayton	513-276-3921
CA	PLC Beach Yeadon	215-472-3832
TX	Hisco Dallas	214-343-8730

GLEASON-AVERY DIV J G RUBINO INC		
45 AURELIUS AV BOX 635 AUBURN		
NY	13021	315-253-7396
J BRUTON EMP 35 ENG 2 \$500-\$1,000K		

GLENLAIR INC 1211 AIR WAY		
GLENDALE CA 91201		
TX	910-497-2066	818-247-6000
R PLATZ EMP 480 ENG 16 OVER \$10,000K		
AL	Brandel-Stephens & Co Huntsville	205-883-0445
AZ	Hans Technical Assoc Phoenix	602-893-0004
CA	Earle Assoc San Diego	619-278-5441
CA	Buffa Co Downey	213-923-4618
CO	Spectrum Mktg Assoc Denver	303-480-9991
FL	Brandel-Stephens & Co Orlando	305-425-3202
GA	Brandel-Stephens & Co Atlanta	404-261-7579
IL	Heartland Tech Mktg Rolling Meadows	312-577-9222
IN	Valentine Assoc Greenwood	317-888-2260
KS	Harris-Hanson Co Grandview	816-763-6200
MD	Carwithen Assoc Silver Spring	301-589-9040
MA	T Maguire Assoc Norwood	617-551-0500
MI	Luebbe Sales Co Livonia	313-477-3131
MN	Nygaard Sales Co Mnpls	612-881-3727
MO	Harris Hanson Co St Louis	314-432-3611
NJ	GT Assoc Wayne	201-694-6040
NY	Fountain Young & Co Syracuse	515-437-7733
NC	Brandel-Stephens & Co Greensboro	919-274-6952
OH	Luebbe Sales Co Cincinnati	513-294-0420
OR	Eclipse Mktg Group Beaverton	503-642-1661
PA	PSA Inc Treviso	215-245-0513
TX	Aid Electronics Irving	214-790-4761
UT	Spectrum Mktg Assoc Ogden	801-972-8552
WA	Barrett Squibb Assoc Redmond	206-885-6991
WI	Heartland Tech Mktg Milwaukee	414-931-0606
FR	Lenbrook Electronics Markham ON	416-477-7722

GLENAYRE ELECTRONICS LTD		
1570 KOOTENAY ST VANCOUVER		
BC	V5K 588 TWX 04-354808	604-293-1611
C ELMER EMP 254 ENG 49		
TX	A Parker Pinehurst	713-894-2287
WA	P Safund Seattle	206-575-0888

DISTRIBUTORS		
CA	Wm J Purdy Burlingame	415-347-7701
CA	Communication Signalling	
	N Hollywood	213-980-5414
CA	General Comm. Sys Glendale	714-545-6358
KS	North Supply Co Lenexa	913-888-9800
MI	Metro Communications Detroit	313-534-9740

GLENTEK INC 208 STANDARD ST		
EL SEGUNDO CA 90245		
R VASAK EMP 55 ENG 9 \$2,500-\$5,000K		
213-322-3026		

GLOBAL SPECIALTIES CORP		
70 FULTON TERR BOX 1942		
NEW HAVEN CT 06509		
TX	710-465-1227	203-624-3103
F GREGORIO EMP 90 ENG 7 \$5,000-\$10,000K		
CA	Global Specialties San Francisco	415-467-8228
IL	Global Specialties Chicago	312-988-5730
TX	Global Specialties Dallas	214-341-4259

DISTRIBUTORS		
CT	Local Distributor Call Toll Free	1-800-572-1028
GLOBE NICKEL PLATING CO		
303 COMMERCIAL ST MALDEN		
MA	02148	617-322-2390
F LIQUORE EMP 75 ENG 2 \$1,000-\$2,500K		

GLOBE PLASTICS INC 1342		
S SIGNAL DR POMONA CA 91766		
EMP 27 ENG 3 \$1,000-\$2,500K		
714-623-2747		

DISTRIBUTORS		
CA	Alatec Products North Hollywood	213-875-1790
CA	Alatec Products Fremont	415-657-7701
NJ	Alatec Products Pinebrook	201-227-8140
TX	APX Plastics Arlington	817-275-3883

GLOBE-UNION INC 5757 N		
GREEN BAY AVE MILWAUKEE		
WI	53201	414-228-1200

GLO-QUARTZ ELECTRIC HEATER CO INC		
7084 MAPLE ST BOX 358 MENTOR		
OH	44060 TWX 980-284	216-255-9701
D MARTIN EMP 51 ENG 4 \$1,000-\$2,500K		
CA	Glo-Quartz Elec Htr Pasadena	213-681-4891

GLUCO INC 1825 RTE 286		
PITTSBURGH PA 15239		
D BITTNER EMP 20 ENG 3 \$500-\$1,000K		
412-327-7575		

G M I ELECTRONICS INC 16-20		
WASHINGTON AVE PLAINFIELD		
NJ	07060	201-755-5980
G LEVEL LI EMP 225 ENG 6 OVER \$10,000K		

GNT AUTOMATIC INC 1560		
TRAPELO RD WALTHAM MA 02154		
EMP 12 ENG 2 \$5,000-\$10,000K		
617-890-3305		

GODFREY MFG CO 2039 N DAMEN AVE		
CHICAGO IL 60647		
W MARTIN EMP 1 ENG 1		
312-384-7550		

GOE ENGINEERING CO 250 S 9TH AVE		
CITY-OF-INDUSTRY CA 91746		
BICNULTY EMP 50 ENG 1 \$2,500-\$5,000K		
IL	Ellinger Sales Corp Cary	763-1570
NJ	Greggson Corp South Orange	763-7900
TX	Indian Industries Arlington	265-6731

GOODYEAR AEROSPACE CORP		
1210 MASSILLON RD AKRON		
OH	44315 TWX 810-431-2080	216-796-2121
F NEBIKER EMP 7000 ENG 1800		
AZ	Goodyear Aerospace Phoenix	602-932-7000
CA	Goodyear Aerospace LA	213-725-4140
DC	Goodyear Aerospace Washington	202-331-9500

FL	Goodyear Aerospace Fort Walton Bch	904-862-4231
GA	Goodyear Aerospace Atlanta	404-762-9527
KS	Goodyear Aerospace Wichita	316-262-5265
MA	Goodyear Aerospace Burlington	617-273-3244
MO	Goodyear Aerospace St Louis	314-731-1986
NY	Goodyear Aerospace Ronkonkoma	516-588-7727
OH	Goodyear Aerospace Dayton	513-224-8301
TX	Goodyear Aerospace Dallas	214-631-8340
UT	Goodyear Aerospace Clearfield	801-773-3131
WA	Goodyear Aerospace Tukwila	206-575-3680

GORDON CO CLAUD S 5710		
KENOSHA ST BOX 500 RICHMOND		
IL	60071 TWX 72-2427	815-678-2211
CA	Claud S Gordon Co Stanton	213-775-8688
CO	J M C Instr Denver	303-777-8833
CT	Claud S Gordon Co Manchester	203-633-6887
FL	Malcolm D Duncan & Assoc Orlando	305-295-2432
GA	Chester Tech Sales Atlanta	404-496-0227
IL	Claud S Gordon Co Richmond	815-678-2211
IN	Claud S Gordon Co Indpls	317-547-1057
KS	B J Alberts Co Wichita	316-263-4941
LA	Lumac Inc Baton Rouge	504-924-7340
MI	Robick Tech Sales Detroit	313-531-7881
MO	C S Gordon Co Baldwin	314-426-7341
NJ	Buck Sales Inc Middlesex	201-560-0700
NM	Electronic Devices Co Albuquerque	505-884-2950
NY	Control Equip Corp Cazenovia	513-655-9700
NY	Lawrence Industrial Sales Buffalo	716-685-1993
OH	Claud S Gordon Co Cleveland	216-321-7771
OK	Paul King Co Tulsa	918-836-2500
PA	Claud S Gordon Co King of Prussia	215-337-8511
SC	C S Gordon Co Greenville	803-255-9613
TX	Instruments Div Houston	713-957-2620
UT	Weidner & Assoc SLC	801-328-3205
WA	Eustis Co Bellevue	206-451-0700
WI	Claud S Gordon Co Milwaukee	414-645-2380
WY	JMC Instruments Casper	307-234-7979

GORDON ENTERPRISES INC		
5362 CAHUENGA BLVD BOX 3914		
NORTH HOLLYWOOD CA 91609		
TXW	910-321-4526	818-985-5500
D SAH EIN EMP 85 ENG 2 \$5 000-\$10 000K		

KS	L Comp Wichita	316-265-8501
KY	Newark Electronics Louisville	502-423-0280
MA	Time Elect NE Woburn	617-935-8080
MN	Control Design Mnpls	612-721-1628
MO	LCOMP St Louis	314-291-6200
NE	Newark Electronics Omaha	402-392-1221
NJ	Resco Electronics Pennsauken	609-662-4000
NY	Jaco Hauppauge	516-273-5500
NC	Hammond Elect Greensboro	919-275-6391
OH	Electronic Mktg Co Columbus	614-299-4161
PA	Pioneer Pittsburgh	412-782-2300
TX	Control Design Dallas	214-358-1441
WI	Industrial Elect Milwaukee	414-276-1212
FR	LA Varrah Hamilton ON	416-561-9311
FR	Future Elect Vancouver BC	604-438-5545

GO	RE & ASSOC INC W L 555	
PAPER MILL RD NEWARK DE 19711		
TXW 510-666-0825		302-738-4880
A CHASE EMP 350 ENG 18		
AZ	W L Gore & Assoc Flagstaff	602-526-1290
CA	W L Gore & Assoc Huntington Bch	714-895-6666
CA	W L Gore & Assoc Sunnyvale	408-733-6105
CO	W L Gore & Assoc Lakewood	303-989-7752
FL	W L Gore & Assoc Orlando	305-345-1311
MA	W L Gore & Assoc Wakefield	617-246-1818
MN	W L Gore & Assoc Burnsville	612-435-6200
NY	W L Gore & Assoc E Setauket	516-928-4141
TX	W L Gore & Assoc Manor	512-276-7600

GORMAN MACHINE CORP 7 BURKE DR		
BROCKTON MA 02401		
TXW 710-345-0679		617-588-2900
H LA BELLE EMP 25 ENG 2		
ADV PG 243		
CA	Gorman Machine Corp Fullerton	714-521-1473

GOULD AMI SEMICONDUCTORS		
3800 HOMESTEAD RD SANTA CLARA		
CA 95051 TXW 910-338-0018		408-246-0330
M LANDIN EMP 3600 ENG 200		
AL	AMI Huntsville	205-830-1435
AZ	AMI Scottsdale	602-996-5638
CA	AMI Santa Clara	408-738-4151
CA	AMI Carlsbad	619-434-6031
CO	AMI Englewood	303-694-0629
FL	AMI Altamonte Sprgs	305-830-8889
IL	AMI Elk Grove Vlg	312-437-6496
IN	AMI Noblesville	317-773-6330
MA	AMI Lexington	617-861-6530
MI	AMI Livonia	313-478-4220
MN	AMI Edina	612-893-1214
NY	AMI Monsey	914-352-5333
NY	Advanced Components N Syracuse	315-699-2671
NC	AMI Raleigh	919-847-9468
OH	AMI Worthington	614-436-0330
PA	AMI Ambler	215-643-0217
TX	AMI Richardson	214-231-5721
UT	AMI Salt Lake City	206-462-8870
WA	AMI Bellevue	206-462-8870

DISTRIBUTORS

CA	Anthem Elect San Jose	408-946-8000
CA	Kierulff Elect LA	213-725-0325
NY	Schweber Electronics Westbury	516-334-7474

GOULD INC COMPUTER SYSTEMS DIV		
6901 W SUNRISE BLVD		
FT LAUDERDALE FL 33313-9148		
TXW 510-955-9825		305-587-2900
G MCFARLAND EMP 2400 ENG 530 OVER \$10,000K		

GOULD INC DEFENSE ELECTRONICS DIV		
6711 BAY MEADOW DR GLEN		
BURNIE MD 21061		301-760-3100
VA	Gould Inc Arlington	703-521-5900

GOULD INC DESIGN & TEST SYS DIV		
4650 OLD IRONSIDES SANTA		
CLARA CA 95050-1279		
TXW 910-338-0509		408-988-6800
D COCKCROFT EMP 292 ENG 30		

AL	W A Brown Inst Huntsville	205-883-8660
AZ	Barnhill Assoc Scottsdale	602-947-7841
CA	Ward Davis Assoc Redondo Bch	312-973-7772
CA	Ward Davis Assoc Santa Clara	408-245-3700
CO	Barnhill Assoc Englewood	303-779-3600
CT	Pat Jenks Assoc No Haven	203-239-6201
FL	W A Brown Inst Orlando	305-425-5505
GA	W A Brown Inst Atlanta	404-455-1035
HI	EMC Honolulu	808-836-1138
IL	Dytec Central Arlington	312-394-3380
IN	Dytec Central Indpls	317-247-1316
KS	Dytec South Lenexa	913-888-0215
MA	Pat Jenks Assoc Woburn	617-938-0488
MI	CMP Farmington Hills	313-477-7700
MO	Dytec South Maryland Hts	314-569-2990
NM	Barnhill Assoc Albuquerque	505-299-7658
NY	DB Assoc DeWitt	315-446-0220
OH	CMP Cleveland	216-779-5100
OK	Barnhill Assoc Englewood	513-836-0951
OR	Northwest Test & Msmnt Beaverton	503-646-9966
PA	Eastern Instr Bensalem	215-245-6660
SC	W A Brown Inst Columbia	803-798-8070
TN	W A Brown Inst Oak Ridge	615-482-5761

TX	Barnhill Assoc Houston	713-688-9971
UT	Barnhill Assoc Murray	801-262-3000
VA	Creative Mktg Assoc McLean	703-442-9100
WA	Northwest Test & Msmnt Redmond	206-881-8857
WI	Dytec Central Elm Grove	414-784-9886
FR	Allan Crawford Assoc Ottawa ON	613-722-7682
FR	Allan Crawford Assoc Edmonton AB	403-451-4893
FR	Allan Crawford Assoc Mississauga ON	416-678-1500
FR	Allan Crawford Assoc Burnaby BC	604-294-1326
FR	Allan Crawford Assoc St Laurent PQ	514-731-8564
FR	Allan Crawford Assoc Calgary AB	403-230-1341
FR	Allan Crawford Assoc Dartmouth NS	902-463-8640

GOULD INC FOIL DIV 35129		
CURTIS BLVD EASTLAKE OH 44094		
TXW 810-427-2606		216-953-5000
J CALLAHAN EMP 100 ENG 20		

GOULD INC IMAGING & GRAPHICS DIV		
46360 FREMONT BLVD FREEMONT		
CA 94538		415-498-3300

GOULD INC RECORDING SYSTEMS DIV		
3631 PERKINS AVE CLEVELAND		
OH 44114 TXW 810-421-8580		216-361-3315
D FRIGGLE EMP 600 ENG 50		

AZ	Gould Inc Mesa	602-833-1602
CA	Gould Inc Cerritos	213-404-1919
CA	Gould Inc Hayward	415-782-0852
CO	Gould Inc Englewood	303-781-4473
FL	Gould Inc Altamonte Sprgs	305-230-0695
GA	Gould Inc Norcross	404-441-5556
IL	Gould Inc Elk Grove Village	312-640-4135
IN	Gould Inc Indpls	317-842-4484
LA	Gould Inc Metairie	504-443-6325
MD	Gould Inc Greenbelt	301-345-0050
MA	Gould Inc Billerica	617-667-8550
MI	Gould Inc Madison Hts	313-588-4020
MN	Gould Inc Mnpls	612-544-5235
MO	Gould Inc Florissant	314-921-3444
NJ	Gould Inc Saddle Brook	201-845-0220
NM	Gould Inc Albuquerque	505-292-4083
NY	Gould Inc Fairport	716-377-1669
NY	Gould Inc Saratoga Spgs	518-584-6648
NC	Gould Inc Greensboro	919-275-1978
OH	Gould Inc Centerville	513-433-9586
PA	Gould Inc Malvern	215-647-2214
TN	Gould Inc Hermitage	615-754-7100
TX	Gould Inc Houston	713-680-1121
VA	Gould Inc Richmond	804-282-5533
WA	Gould Inc Bellevue	206-453-8100
FR	A Crawford Assoc Ltd Mississauga ON	416-678-1500
FR	A Crawford Assoc Ltd St Laurent PQ	514-731-8564
FR	A Crawford Assoc Ltd Ottawa ON	613-829-9651
FR	A Crawford Assoc Ltd Calgary AB	403-230-1341
FR	A Crawford Assoc Ltd Dartmouth NS	902-463-8640

GOW-MAC INSTRUMENT CO BOX 32		
BOUND BROOK NJ 08805		
TXW 833-174		201-560-0600
R MATHIEU EMP 50 ENG 5 \$1,000-\$2,500K		
CA	Applied Inst Corp Anaheim	714-535-6551
CA	Western Sci Assoc Danville	415-837-4622
IL	L C Company Schaumburg	312-529-1880
MD	J Lawson Edgewater	301-956-5641
MI	Anspec Ann Arbor	313-665-9666
MO	P J Cobert St Louis	314-423-8388
NM	Hiltech Albuquerque	505-268-1733
OR	Extel Ltd Portland	503-292-9219
TX	Indextecl Corp Houston	713-528-1258

GOWANDA ELECTRONICS CORP		
1 INDUSTRIAL PL BOX 111		
GOWANDA NY 14070		
TXW 710-529-1211		716-532-2234
K STROHMEYER EMP 250 ENG 4 \$5,000-\$10,000K		
AL	L & D Huntsville	205-837-1469
CA	Earle Assoc San Diego	619-278-5441
CA	Wm Parks Assoc Fremont	415-490-2011
CO	Gowanda Westminster	303-750-3501
FL	NSL Assoc Longwood	305-629-5226
GA	L & D Atlanta	404-455-3483
IL	W F Hamilton Co Chicago	312-867-5030
IA	Snider Sales Co Cedar Rapids	319-362-4410
KS	Barnes MidWest Sales Overland Pk	913-341-9317
MA	Lincoln Assoc Reading	617-944-9020
MI	F H Gehrke & Assoc Southfield	313-559-5363
MN	Barnes Sales Assoc Chanhassen	612-934-2907
NJ	Robt Smith Assoc NYC	212-541-4885
NY	Naylor Electric Co Cazenovia	315-655-8174
NY	Robt Smith Assoc Plainview	516-681-3155
NC	L & D Inc Greensboro	919-292-3201
OH	Stegman Blaine Mktg Cincinnati	513-729-1969
TN	L & D Seymour	615-573-6511
TX	P J Scanlon Dallas	214-231-4661
UT	Sage Sales SLC	801-467-5451
VA	L & D Midlothian	804-257-7717
WA	Bergford & Assoc Olympia	206-866-2001
FR	McIntyre Agencies Montreal PQ	514-731-9617

DISTRIBUTORS

CA	KEA San Leandro	415-352-2277
NY	Broadline Elex Hauppauge	516-231-4100
GPE CONTROLS A BRUNSWICK CO		
6511 OAKTON ST MORTON GROVE		
IL 60053 TXW 210216		312-966-4000
J FAUSEL EMP 300 ENG 50 OVER \$10,000K		
AL	McConnell Sales & Eng Corp Birmingham	942-3501
CA	Barth Eng Co Pleasant Hill	415-680-7600
CA	GPE Controls Anaheim	213-595-4541
CO	Process Controls Lakewood	303-232-4996
DE	GPE Controls Newark	302-731-0972
FL	Recary Intl Inc Miami	305-232-0836
GA	Process Supplies & Access Chamblee	404-458-4455
IL	GPE Controls Morton Grove	312-966-4000
MN	Simone Engr Mnpls	612-566-6966
MO	S & M Equipment Arnold	314-296-6900
NY	GPE Controls Kenilworth	201-276-3434
NC	Algay Controls Charlotte	704-366-6976
OH	Process Valve & Equip Co Chagrin Falls	216-247-6111
OK	GPE Controls Tulsa	918-683-1141
OR	Norman Rupp Co Portland	503-231-7701
TX	GPE Controls Houston	713-820-0965
UT	Process Engrd Prods Bountiful	801-292-5020
WY	Process Controls Laramie	307-745-4122
FR	Lytle Specialties Ltd Montreal	514-487-7820
GRAND TRANSFORMERS INC		
1500 MARION BOX 188 GRAND		
HAVEN MI 49417		616-842-5430
T JACKSON EMP 160 ENG 4 \$5,000-\$10,000K		
CA	Savage Assoc San Diego	619-457-2644
CA	Motion Technology Chatsworth	808-700-8868
GA	Hollingsworth & Still Norcross	404-447-1700
IN	Fred A Dorsey & Assoc Indpls	317-842-0060
MA	Shain Assoc Needham Hts	617-449-4380
MI	Lowell-Wendt Mktg Co Livonia	313-464-2722
MN	Grayden & Flemmer Edina	612-941-1120
MO	Mertens Co Clayton	314-993-6600
NJ	DynoRep Inc Manville	201-685-0135
NY	Bastian Sales Fairport	716-223-0327
OH	KW Elctn Sales Dayton	513-890-2150
PA	John Wurts Co Gladwyne	215-649-6300
TX	W T Blackburn Assoc Richardson	214-783-2200
WI	Artmor Ltd 10040 N Sheridan Mequon	414-241-4040
WI	Artmor Ltd Oconomowoc	414-367-8789
GRANT HARDWARE CO DIV GRANT		
IND INC 7 HOOVER AVE		
HAVERSTRAW NY 10927		
TXW 710-575-2634		914-358-4400
J BROSS EMP 300 ENG 15 OVER \$10,000K		
CA	Catlin Ind Canoga Pk	213-347-0444
CA	Nova-Tronix Inc Santa Clara	408-243-9531
CO	Challenge Sales North Glenn	303-450-2402
FL	Electro-Corp Assoc Deerfield Bch	305-429-0802
IL	Lincoln Hodges & Assoc Des Plaines	312-297-3810
KS	J Singer Overland Park	913-381-3684
MA	E F Delfino Co Lexington	617-938-1217
MI	Carter McCormick & Peirce Farmington	313-477-7700
MN	Reppo St Paul	612-642-2828
NJ	M Dc Industries Ridgefield	201-941-3113
NY	Necco Ft Lee NJ	201-461-2789
NY	Precision Sales Liverpool	315-451-3480
NC	J Corn Assoc Charlotte	704-552-0991
OH	Tri State Mktg Inc Cincinnati	513-761-7993
PA	Carter McCormick & Peirce Monroeville	412-372-4415
TX	Blackburn Assoc Dallas	214-692-8885
WA	Norwest Co Inc Kirkland	206-827-9562
WI	Lincoln Hodges & Assoc Waukesha	414-542-3087
FR	Electrodesign Ltd Lachine	514-636-4838
GRANVILLE-PHILLIPS CO 5675		
E ARAPAHOE AVE BOULDER		
CO 80303 TXW 45-791		303-443-7660
T FEAVER EMP 100 ENG 20 \$5,000-\$10,000K		
AZ	Cleek Co Phoenix	602-802-0699
CA	Granville-Phillips Co Sunnyvale	408-734-1024
GA	Sealey Instruments Atlanta	404-491-3777
IL	Danielson Assoc Downers Grove	312-960-0086
MO	Semitor Assoc Colo Springs	303-593-7881
NY	Granville-Phillips Fishkill	914-896-8789
OR	Demarest Assoc Aloha	503-642-4515
PA	Hovac Co Churchville	215-355-7061
TX	Yarborough Southwest Richardson	214-690-0800
VA	Hovac Midatlantic Falls Church	703-280-0488
WA	Demarest Assoc Seattle	206-523-3210
GRAPHIC CONTROLS CORP 189		
VAN RENSSLAER BOX 1271		
BUFFALO NY 14240 TXW 091-306		716-853-7500
J BARANOWSKI EMP 600 ENG 5 OVER \$10,000K		
CA	Graphic Controls Tustin	714-731-3600
GA	Graphic Controls Atlanta	404-451-4738
TX	Graphic Controls Houston	713-531-9103

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R DEBLOIS EMP 12 ENG 3 \$1,000-\$2,500K

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NY 10702 TWX 13-1571 914-968-8400
E WALKER EMP 178 ENG 7 \$2,500-\$5,000K
ADV PG 47

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LA GRANGE IL 60525
TWX 910-683-1850 312-354-1040
R NEUMANN EMP 1000 ENG 35
ADV PGS 207,234,398,433,439,443,449

AL Rep Inc Huntsville 205-881-9270
AZ Mercury Engrg Sales Phoenix 602-244-0123
CA Impact Elctns Anaheim 714-533-1351
CA West-Comp Inc Cupertino 408-996-1001
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CO Newell-Hynes Assoc Deerfield Bch 305-429-3207
GA Rep Inc Tucker 404-938-4358
GA Menze Sales Ft Wayne 219-747-5616
GA Lorenz Sales Cedar Rapids 319-377-4666
MS PMR Inc Overland Park 913-381-0004
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MA Newscott Co Needham Hts 617-444-1923
MA C B Jensen & Assoc Troy 313-643-0506
MN Northport Engrg Inc St Paul 612-457-8000
MO PMR Inc St Louis 314-569-1220
NJ Naudain Assoc Maritton 609-983-5300
NJ Lindberg Co Albuquerque 505-881-1006
NY Bob Dean Inc Ithaca 607-257-1111
NY R W Chapman Charlotte 704-525-2421
NY R W Chapman & Co Raleigh 919-782-2624
NY A H Baier Co & Assoc Cleveland 216-461-6161
NY A H Baier Co & Assoc Dayton 513-276-4128
OH Eltech Inc Tigard 503-684-3458
OH Rep Inc Jefferson City 615-475-9012
TX W Pat Fralia Co Arlington 817-267-3577
TX W Pat Fralia Co Houston 713-772-1572
TX W Pat Fralia Co Austin 512-835-7911
TX Lindberg Co S L C 801-277-2643
UT Eltech Inc Bellevue 206-643-4330
WI Badgerep Mequon 414-241-9200

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AL Powell Elect Huntsville 205-539-2731
AZ Harper SID Tempe 602-967-1464
AZ Carlton Bates Co Little Rock 501-562-9100
CA Calif Switch & Signal Gardena 213-770-2330
CA Harper SID Santa Clara 408-988-6041
CA Electric Switches Inc LA 213-660-1310
CA Electronic Sply Riverside 714-683-7300
CA Powell Elect San Jose 408-943-9020
CA Richey/Western Elect Sun Valley 714-895-0060
CA Richey/Western Elect San Diego 619-271-4511
CA Harper SID San Diego 619-560-8545
CA Ragon Electronics Denver 303-777-9430
CA Newark Elect Denver 303-757-3351
CA CSID Inc Denver 303-292-9594
CA Sager Elect Wallingford 203-265-4600
CA Midan Elect Wallingford 203-265-2077
CA Heiland Elect Bethel 203-797-8600
CA Peerless Radio Pompano Beach 305-973-4141
CA Powell Elect Ft Lauderdale 305-972-4300
CA Hammond Elect Orlando 305-849-6060
CA A-A Elect Inc Norcross 404-449-8670
CA Precision Radio Ltd Honolulu 808-537-5291
CA Classic Comps Northbrook 312-272-9650
CA Klaus Radio Peoria 309-691-4840
CA Newark Elect Chicago 312-638-4411
CA OHM Electronics Palatine 312-359-5500
CA Graham Elect Ft Wayne 219-423-3422
CA Graham Elect Indpls 317-634-8202
CA Hutch & Sons Evansville 812-425-7201
CA PEI/Genesis Elect Indpls 317-637-5571
CA Deeco Inc Cedar Rapids 319-365-7551
CA Lcomp Inc Wichita 316-265-5100
CA Resco/Balt Baltimore 301-529-0500
CA Pioneer Wash Gaithersburg 301-921-0660
CA Powell Elect Columbia 301-621-4070
CA Marine Air Supply Kensington 301-949-9560
CA Electronic Sup Ctr North Adams 413-663-6828
CA Gerber Elect Norwood 617-329-2400
CA R M Elect Worcester 617-791-7861
CA Sager Elect Hingham 617-749-6700
CA Heiland Electronics Wilmington 617-657-4870
CA Newark Detroit Oak Pk 313-967-0600
CA Pioneer/Michigan Livonia 313-525-1800
CA R S Elect Livonia 313-525-1155
CA Spemco St Clair Shores 313-771-2700
CA Gopher Elect St Paul 612-483-3352
CA Newark Elect Mpls 612-331-6320
CA Stark Elect Mpls 612-332-1325
CA Millington Elect Supply Jackson 601-355-0561
CA Lcomp Inc KC 816-221-2400
CA Lcomp Inc Maryland Hts 314-291-6200
CA Olive Indust Elect St Louis 314-426-4500
CA Scott Elect Sup Lincoln 402-466-8221
CA State Elect Parts East Hanover 201-887-2550
CA Federated Purchaser Kenilworth 201-272-0505
CA Jerseyswitch Inc Mt Laurel 609-778-8190
CA Walker Elect Supply Albuquerque 505-883-2992

NM International Elect Albuquerque 505-345-8127
NY ASI Elect Endwell 607-754-3823
NY Car-Lac Elect Bohemia 516-567-4200
NY Rome Elect Rome 315-337-5400
NY Peerless Radio Lynbrook 516-593-2121
NY Simcona Elect Rochester 716-328-3230
NY Summit Dist Buffalo 716-887-2800
NC Hammond Elect Greensboro 919-275-6391
NC Southeastern Elect Raleigh 919-828-2311
NC Pioneer/Carolina Charlotte 704-527-8188
NC Hughes-Peters Cincinnati 513-351-2000
OH Hughes-Peters Columbus 614-294-5351
OH Pioneer/Cleve Cleveland 216-587-3600
OH Pioneer/Dayton Dayton 513-236-9900
OH URI Elect Cincinnati 513-761-4030
OH Stotts-Friedman Dayton 513-298-5555
OK Electro Entrps Okla City 405-427-6591
OR Component Resources Inc
Beaverton 503-641-8488

PA Almo Electronics Phila 215-698-4000
PA Cumberland Elect Harrisburg 717-232-5999
PA Herbach & Rademan Phila 215-426-1700
PA REM Electronics Erie 814-453-5626
PA Pioneer/Pittsburgh Pittsburgh 412-782-2300
PA Powell Elect Phila 215-365-1900
RI Major/Edwards Elect Pawtucket 401-725-7400
SC Dixie Elect Columbia 803-779-5332
SC EMSCO Greenville 810-281-2233
TX Newark Elect Garland 214-494-5911
TX Harrison Elect Dallas 214-329-2750
TX International Elect El Paso 915-598-3406
TX Norvell Elect Dallas 918-233-0020
TX Southwest Elect Stafford 713-491-4900
TX Harpers SID Richardson 214-235-3177
TX Harrison Elect Co Dallas 214-239-2750
UT Standard Supply SLC 801-486-3371
VA Sterling Elect Richmond 804-226-1200
WI Marsh Elect Milwaukee 414-475-6000

GREAT EASTERN METAL PRODUCTS CO
11 SUNNYSLOPE TERR YONKERS
NY 10703 914-476-7300
L WEINBERG EMP 17 \$250-\$500K

GREENRAY INDUSTRIES INC
840 W CHURCH RD MECHANICSBURG
PA 17055 TWX 510-650-4939 717-766-0223
J GRIFFIN EMP 64 ENG 4 \$2,500-\$5,000K

DISTRIBUTORS

AZ Faser Tech Sales 602-948-4404
CA H B Marketing 415-941-4080
CA L & M Engineering 213-674-6850
IL Cudahy Sales Co 312-526-2484
MD Brimberg Sales Co 301-946-2670
MA Geder Assoc 617-944-3105
NY Spectrum Sales 914-472-8600
NY Robtrn Inc 710-542-0621
PA W & M Assoc 215-643-4119
FR RF-MW Ltd 514-335-2335

GREEN RECTIFIER CORP 59
NICOLA PL NUTLEY NJ 07110 201-667-8721
S CARLSON EMP 31 ENG 3 \$1,000-\$2,500K
FR Delmar Elctns Lindenhurst NY 516-884-7100

GREIBACH INSTRUMENTS 25 DOCK ST
MT VERNON NY 10550 914-699-9717
G FRANK EMP 35 ENG 2 \$250-\$500K
IL Saffro & Assoc Lincolnwood 312-677-9720
MD Whitcomb Assoc Baltimore 301-889-1245
MN Hei-Lite Sales Mpls 612-861-6051
WI Saffro & Assoc Lake Mills 414-648-2605

GRIES/DYNACAST DIV COATS
& CLARK INC 1401 FRONT ST
YORKTOWN HTS NY 10598
TWX 710 563 0630 914-633-8600
EMP 450 ENG 15

DISTRIBUTORS

CA Gries/Dynacast Company Santa Ana 714-972-2735
IL Gries/Dynacast Co Schaumburg 312-351-6100
TN Coats & Clark/Plastics
Div Seneca 803-882-5652
TN Gries/Dynacast Co Spartanburg 803-576-0838
WI Larson & Co Milwaukee 414-264-2210
FR Gries/Dynacast Co Lachine PQ 514-636-4734

GRIEVE CORP 500 HART RD
ROUND LAKE IL 60073
TWX 72-2436 312-546-8225
P CALABRESE EMP 140 ENG 4

AL Guest Assoc Huntsville 205-837-2330
AZ TechScience Intl Inc Phoenix 602-995-9088
CA Hart Latimer Assoc Santa Ana 714-973-9200
CA Hart Latimer Assoc San Carlos 415-591-2497
CO Romarc Inc Denver 303-458-6600
CT William K Duff & Co Avon 203-678-1100
FL State Instruments Inc Tampa 800-282-1606
GA United Eng Co Atlanta 404-256-4871
IL F Calabrese Buffalo Grove 312-546-8225
IN Couchman-Conant Inc Indpls 317-849-9899
IA BSI Ltd Bettendorf 319-355-5623
KS TechScience Intl Inc Overland
Park 913-381-2600

MA Eastern Appliance Co Raynham 617-824-1495
MI Jesse W Eakins Co Detroit 548-4855
MN Sabco St Paul 612-636-7634
MO T L Maddox Co Chesterfield 314-532-7667
NJ Faber Assoc Clifton 201-773-8900
NY Elliott Indus Equip Inc Buffalo 716-634-1550
NC Henry Walke Co Charlotte 704-334-5391
OH Cleveland Ind Equip Sales
Co Cleveland 216-431-8640
PA Advent Electric Bridgeport 215-277-6610
TX TechScience Intl Inc Dallas 214-661-3730
VA Henry Walke Co Norfolk 800-572-3230
WA TechScience Intl Inc Seattle 206-762-4260
WI Schram Assoc Waukesha 414-547-0600
FR Scarborough & Grant Co
Ltd Weston ON 416-746-6805

DISTRIBUTORS

AL Pickett Birmingham 205-833-3708
GA Kittner Atlanta 404-394-1666
NC Crofts & Saunders Winston-Salem 919-765-7250

GRIM CORP BOX 67 MEDFORD
NJ 08055 TWX 510-683-9392 609-267-7950
EMP 80 ENG 6 \$5,000-\$10,000K

GRIMES DIV MIDLAND ROSS CORP
550 RTE 55 BOX 247 URBANA
OH 43078 TWX 810-457-2852 513-652-1431
R SMITH EMP 2150 ENG 113 OVER \$10,000K
CA Grimes Div El Segundo 213-615-0643
NY Harold DeSoye Sales Garden City 516-486-4800
OH Product Support Ctr Urbana 513-653-5225
TX T W Toler Inc Euless 817-267-0631
WA Grimes Div Seattle 206-575-1941

GROBET FILE CO OF AMERICA INC
750 WASHINGTON AVE CARLSTADT
NJ 07072 TWX 710-989-0141 201-939-6700
CA Grobet File Co Glendale 213-245-0301
TX J W Woodard & Co Garland 214-271-2556
FR Grobet File Co of Can Scarborough
ON 416-293-2475

GROOV-PIN 1125 HENDRICKS
CAUSEWAY RIDGEFIELD NJ 07657
TWX 710-992-8963 201-945-6780
D KOETSIER EMP 125 ENG 3 \$2,500-\$5,000K

GRUMMAN ELECTRONICS SYSTEMS DIV
BOX 608 GREAT RIVER NY 11739
TWX 516-435-6445 516-435-6000
K SPEISER EMP 1600 ENG 80 OVER \$10,000K
CT Phoenix Sales Co Ridgefield 203-438-9644
MD Component Sales Baltimore 301-484-3647

GSE INC 23640 RESEARCH DR
FARMINGTON HILLS MI 48024
TWX 23-0738 313-476-7875
H MUNN EMP 100 ENG 15 \$5,000-\$10,000K
CA Feeger Lucas Wolfe Costa Mesa 714-751-7512
CA Torque & Tension Equip Campbell 408-374-7970
CO Fluid Power Tech Northglenn 303-450-9500
FL Structural Engrg & Testing
Svcs Clearwater 813-442-7767
IL Van Meter Inst Lansing 312-474-3580
MA J M Lancaster Co Framingham 617-875-8893
MN Industria Co Mpls 612-835-5535
NY C S Mathewson Co Rochester 716-288-5956
NC Industrial Power Sales Raleigh 919-876-6115
OH Stress Analysis Svcs Medina 216-725-7733
PA Measurements Inc Exton 215-524-0310
TX Seaton Corp Dallas 214-380-0414
WA Industrial Elect Inst Co
Arlington 206-775-3516
FR Master Dyne Ltd Mississauga ON 416-890-1557

GSI CORP 1917E GREENSPRING DR
TIMONIUM MD 21093 301-252-1768
L MORGAN EMP 28 ENG 3 \$1,000-\$2,500K
CT Omni-Rep Madison 203-421-4561
IL Noble Assoc Crystal Lake 815-455-5084
MA Omni-Rep Burlington 617-245-4511
VA Electronic Sources
Charlottesville 804-293-4041

GTCO CORP 1055 FIRST ST
ROCKVILLE MD 20850 TWX 898471 301-279-9550

GTE GOVT SYSTEMS WESTERN DIV
BOX 7188 MT VIEW CA 94039
TWX 910-379-6948 415-966-2000
E BAKER EMP 3000 ENG 1300
NY GTE Govt Systems Rome 315-337-1100
OH GTE Govt Systems Dayton 513-256-7605
VA GTE Govt Systems Arlington 703-247-9230

GTE LIGHTING PRODUCTS SYLVANIA
LIGHTING CTR DANVERS MA 01923 617-777-1900
D CANFIELD EMP 200 OVER \$10,000K
CA Sylvania Box 2795 LA 213-726-1666
CA Sylvania Burlingame 415-697-3500
CO Sylvania Denver 303-399-1760



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FL	Sylvania Orlando	305-859-6220
GA	Sylvania Atlanta	404-762-1781
IL	Sylvania Elk Grove Vlg	312-593-3400
KS	Sylvania Kansas City	913-371-3773
LA	Sylvania New Orleans	504-733-6970
MA	Sylvania Salem	617-777-1900
MI	Sylvania Dearborn	313-582-8754
MN	Sylvania Fridley	612-571-9400
MO	Sylvania Hazelwood	314-731-5515
NJ	Sylvania Teterboro	201-288-9484
NY	Sylvania Buffalo	716-668-6125
NC	Sylvania Charlotte	704-334-4671
OH	Sylvania Cincinnati	513-793-6440
PA	Sylvania Devon	215-293-9330
TX	Sylvania Dallas	214-239-8171
VA	Sylvania Springfield	703-354-3100
WA	Sylvania Seattle	206-763-2660

GTE MICROCIRCUITS 2000 W 14 ST		
TEMPE AZ 85281		
TXW	910-951-1383	602-968-4431
D THOMPSON EMP 500 ENG 80		
CA	GTE Microcircuits Sepulveda	213-546-4731
NY	GTE Microcircuits Hauppauge	516-724-8300

DISTRIBUTORS

AZ	Bell Industries Tempe	602-966-7800
CA	Pacesetter Electronics Anaheim	714-777-4711
CA	Bell Industries Sunnyvale	408-734-8570
CA	Pacesetter Elect Sunnyvale	408-734-5470
CO	Bell Industries Wheatridge	303-424-1985
FL	Interlec Components Inc Orlando	305-834-7777
GA	QC Southeast Norcross	404-448-9508
IL	Spectrum Electronics Norcross	404-448-1516
IL	Prehler Electronics Chicago	312-384-6100
MN	Voyager Electronics Fridley	612-571-7766
NJ	Vantage Components Clifton	201-777-4100
NM	Bell Industries Albuquerque	505-292-2700
NY	Rome Electronics Rome	515-337-5400
NY	Vantage Components Commack	516-543-2000
OK	Televox Inc Dayton	513-294-4499
OR	Quality Components Tulsa	918-664-8812
OR	Bell Industries Lake Oswego	503-241-4115
TX	Quality Components Addison	214-733-4300
UT	Sterling Electronics Dallas	214-243-1600
WA	Bell Industries SLC	801-972-6969
WA	Bell Industries Bellevue	206-747-1515
WI	Bell Industries Waukesha	414-547-8879

GTE PRECISION MATERIALS		
100 ENDICOTT ST DANVERS MA 01923		
J PARKS EMP 6000 ENG 300 OVER \$10,000K		
CA	GTE Wesgo Belmont	415-592-9440
ME	GTE Prods Corp Standish	207-642-4535
MI	GTE Valeron Troy	313-689-1000
NH	GTE Prods Corp Exeter	603-772-4331
NC	GTE Products Reidsville	919-342-2381
PA	GTE Prods Corp Towanda	717-265-2121

GTE SYLVANIA CONTROL DEVICES		
RT 35 STANDISH ME 04084		
TXW	710-365-0145	207-642-4535
M SHEDD EMP 1000 ENG 25 OVER \$10,000K		
MI	G Swintek Dearborn	313-582-8754
OH	E Monnin Dayton	513-223-6227

GTE SYLVANIA INC CONNECTOR		
PRODS OPER RD 2 BOX 29 TITUSVILLE PA 16354		
TXW	510-692-6763	814-589-7071
EMP 294 ENG 20 OVER \$10,000K		

GTE TECHNICAL PRODUCTS DIV		
1704 BARNES ST REIDSVILLE NC 27320 TXW 574493		
TX	HART EMP 300 ENG 15 OVER \$10,000K	919-342-2381
CT	GTE Hartford	203-249-5823
IL	GTE Chicago	312-593-3400
MI	GTE Dearborn	313-582-8754
NC	GTE Charlotte	704-334-4671
PA	GTE Devon	215-293-9330
FR	GTE Etobicoke ON	416-675-7496
FR	GTE San Juan PR	809-769-7040

GTI CORP CIRCUITS DIV BOX 217		
LEESBURG IN 46538 TXW 23-2653		
TX	R SNYDER EMP 100 ENG 5 \$5,000-\$10,000K	219-453-3261
IN	GTI Corp Box 217 Leesburg	219-453-3261

GUARDIAN ELECTRIC MFG CO		
1550 W CARROLL AVE CHICAGO IL 60607 TXW 254116		
TX		312-243-1100

GUILDLINE INSTRUMENTS INC		
4403 VINELAND RD ORLANDO FL 32811 TXW 856443		
TX		305-423-8215
L BANTON EMP 75 ENG 8 \$5,000-\$10,000K		

AZ	Trembley Assoc Tempe	602-966-4428
CA	T Louis Snitzer Co Cupertino	408-257-8333
CA	T Louis Snitzer Co LA	213-366-6170
CO	Emcar Mktg Wheat Ridge	303-424-0108
IL	Dytec/Central Arlington Hts	312-394-3380
IL	Dytec/Central Arlington Hts	312-394-3380
MI	WKM Assoc Madison	313-588-2300
MN	Dytec/North St Paul	612-645-5816
MS	Dytec/South Maryland Hts	314-569-2990
NJ	Mark Roberts Assoc Mt Arlington	201-398-8425
NM	Trembley Assoc Albuquerque	505-266-8616
OH	WKM Assoc Cleveland	216-267-0445
OH	WKM Assoc Dayton	513-434-7500
OR	Westcon Inc Portland	503-283-0132
VA	Scientific Assoc Fairfax	703-385-0600

GULTON GRAPHIC INSTS DIV		
GULTON IND PARK EAST GREENWICH RI 02818		
TXW	710-387-1500	401-884-6800
EMP 350 ENG 20 OVER \$10,000K		

CA	Graphic Insts Div Anaheim	714-978-1300
CA	Graphic Inst Div Sunnyvale	415-856-3000
IL	Graphic Insts Div Schiller Park	312-678-3336
NJ	Graphic Insts Div Metuchen	201-548-7540
OH	Graphic Inst Div Columbus	614-861-3538

GULTON INDUSTRIES INC ENGRD		
MAGNETICS DIV 13041 CERISE AVE HAWTHORNE CA 90250		
TXW	910-325-6208	213-679-0111
C MAY EMP 221 ENG 25 OVER \$10,000K		
CA	G Heffner Hawthorne	213-679-0111
IA	Dy-Tronix Inc Cedar Rapids	319-377-8275
KS	Dy-Tronix Inc Wichita	316-838-0884
MO	Dy-Tronix Inc Bridgeton	314-291-4777
NY	J Auletta Ridge	516-929-4190
TX	M Cox Richardson	214-669-2280
WA	Thorsen Co NW Bellevue	206-455-9180

G W THREE INC 7623 FULLERTON RD		
SPRINGFIELD VA 22153		
TX		703-451-2043

HABIA/NEK CABLE INC 2150		
FIFTH AVE RONKONKOMA NY 11779		
TXW	645353	516-588-0200
E CRONIN EMP 60 ENG 4 \$5,000-\$10,000K		

HACKER INSTRUMENTS INC BOX 657		
FAIRFIELD NJ 07007 TXW 642769		
TX	I HILLS EMP 12 ENG 1 \$1,000-\$2,500K	201-226-8450

HADCO CORP 12A MANOR PKWY SALEM		
NH 03079 TXW 710-366-0500		
TX		608-898-8000
G BARRY EMP 1500 ENG 50 OVER \$10,000K		
AL	B Smalley Huntsville	205-881-2688
CA	R MacMann Irvine	714-552-4686
CO	C Freeman Longmont	303-772-4892
DE	T Sniogowski Newark	302-737-0415
MN	S Hewitt Northfield	507-645-9869
NY	J Griffin Owego	607-687-3425
NC	M Giggey Raleigh	919-782-4753
TX	F Newman Dallas	214-343-2571

HADES MFG CORP 151A VERDI ST		
FARMINGDALE NY 11735		
TX		516-249-4244
K NORRIS EMP 30 ENG 4 \$500-\$1,000K		

HADLEY CO INC ROBERT M		
750 W 51ST LOS ANGELES CA 90037		
TX		213 234-9091
A HADLEY EMP 130 ENG 4 \$2,500-\$5,000K		

HAL COMMUNICATIONS CORP BOX 365		
URBANA IL 61801		
TXW	910-245-0784	217-367-7373
K SARTAIN EMP 45 ENG 15 \$1,000-\$2,500K		

HALE INSTRUMENT INC 343 W 23 ST		
HOUSTON TX 77008		
TX		713-861-7574
O HALE EMP 15 ENG 3 \$100-\$250K		

HALLMARK NAMEPLATE INC		
1855 NEW HIGHWAY FARMINGDALE NY 11735 TXW 510-222-0884		
TX		800-645-9502
Z PAPERNY EMP 39 ENG 1 \$1,000-\$2,500K		

HALCYON COMMUNICATIONS INC		
2121 ZANKER RD SAN JOSE CA 95131 TXW 910-338-0562		
TX		408-293-9970
P. HULBERT EMP 250 ENG 25 OVER \$10,000K		
CA	Halcyon Fullerton	714-680-8605
GA	Halcyon Atlanta	404-998-2210
IL	Halcyon Rolling Meadows	312-255-3000
MD	Halcyon Laurel	301-953-7474
NJ	Halcyon Edison	201-225-5350
TX	Halcyon Bedford	817-481-7548

HAMAMATSU CORP 420 SOUTH AVE		
MIDDLESEX NJ 08846 TXW 803		
TX		201-469-6640
G MARSHALL EMP 60 ENG 7 OVER \$10,000K		

HAMEG INC 88-90 HARBOR RD		
PORT WASHINGTON NY 11050		
TXW	510-223-0889	516-883-3837
J ARONOVICH		

HAMILTON DIGITAL CONTROLS INC		
2118 BEECHGROVE PL UTICA NY 13501 TXW 646839		
TX		315-797-2370
S DENIGRO EMP 180 ENG 9 \$5,000-\$10,000K		

CA	C Locke San Clemente	714-498-9536
NY	K Both Yaphank	516-924-4450

HAMILTON-HALL RESISTOR CORP		
227 N WATER ST MILWAUKEE WI 53202 TXW 910-262-3024		
TX		414-273-6460
K DEGNAN EMP 50 ENG 2 \$1,000-\$2,500K		

CA	Mod Co Burbank	213-848-2215
IL	ESCO Assoc Des Plaines	312-298-5310
IL	Belford Electronics Addison	312-691-1100
IN	Technical Repts Indpls	317-882-4007
NY	F Dasso Rochester	716-338-1699
TX	Design Mkt Inc Irving	214-607-0611
WA	Richard S Thorp Co Kent	206-763-0545

HAMILTON INDUSTRIES 18TH ST		
TWO RIVERS WI 54241		
TX		414-793-1121
G KLECKNER EMP 1500 ENG 65		

HAMLIN INC LAKE & GROVESTES		
LAKE MILLS WI 53551		
TXW	910-260-3740	414-648-2361
K DEANS EMP 1836 ENG 45 OVER \$10,000K		
AZ	Heiland Elect Phoenix	602-437-1060

DISTRIBUTORS

AZ	Circuit Specialties Tempe	602-966-0764
CA	Pyramid Elect Santa Clara	408-727-4810
CA	Patane Avionics Van Nuys	213-988-4455

CA	Cypress San Jose	800-538-5112
CO	Industrial Elec Englewood	303-694-9444
CT	Hatry Elect Hartford	203-527-1881
CT	Sager Elec Supply Wallingford	203-265-0400
FL	Interlec Inc Longwood	305-834-7777
FL	Electronic Equip Miami	305-871-3500
FL	AA Elec Lakeland	813-682-6181
FL	Leader Elect Tampa	813-870-3315
GA	A A Elect Norcross	404-449-8670
IL	Newark Elect Chicago	312-638-4411
IL	Ohm Elect Palatine	312-599-5500
IN	Graham Elect Indianapolis	317-834-8202
MD	Pioneer/Wash Galtersburg	301-948-0710
MA	Heiland Elect Burlington	617-272-5610
MA	Sager Elec Supply Hingham	617-749-6700
MI	Newark Elect Oak Park	313-967-0600
MN	Voyager Electronics Fridley	612-571-7766
MO	Olive Elect St Louis	314-426-455
NH	Heiland Elect Hudson	603-883-955
NJ	Resco Elect Pennsauken	609-662-4000
NJ	Relay Specialties Fair Lawn	201-797-3313
NM	Bell Ind Albuquerque	505-292-2700
NY	Peerless Radio Lynbrook	516-593-2121
NY	Summit Distb Buffalo	716-884-3450
NY	Masline Electronics Rochester	716-546-5373
NC	Kirkman Elec Winston-Salem	919-722-9131
OH	Repco Solon	216-248-8900
OH	Graham Elect Cincinnati	513-772-1681
OK	Radio Inc Tulsa	918-587-9123
OR	Radar Elec Portland	503-233-3691
PA	Barno Radio Co McKeesport	412-751-5966
TX	Allied Elect Ft Worth	817-336-5401
TX	Heiland Elect Dallas	214-351-2058
TX	Harrison Equip Houston	713-879-2771
TX	Allied Elect Ft Worth	214-265-9341
WA	Radar Elec Co Seattle	206-282-2511
WA	Interface Electronics Kent	206-872-5800
WI	A A Elect Cedarburg	414-377-7500
WI	Taylor Elect Co Mequon	414-241-4321
FR	Semad Elect Downsview ON	416-663-6650
FR	Semad Elect Calgary AB	404-252-5660
FR	Semad Elect Dorval PQ	514-636-4614
FR	Semad Elect Ottawa ON	613-722-6571
FR	RAE Indus Elect Downsview ON	416-736-1750
FR	Medco Surrey BC	604-590-1553
FR	RAE Indus Elect Burnaby BC	604-291-8866

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3263 KIFER RD SANTA CLARA
CA 95051 TWX 80165
M S HAN EMP 3000 ENG 80 OVER \$10,000K
ADV PG 168

AL	J Tibbs Huntsville	205-830-1540
AZ	Macronix Inc Phoenix	213-670-2833
CA	Knight Co Los Angeles	213-670-2833
CA	Straube Assoc Mt View	415-969-6060
CA	Marcon Sales Inc Mt View	415-964-8046
FL	C Vaughn Deerfield Beach	305-429-3400
FL	M Wintenburg Orlando	305-422-2531
GA	Cartwright & Bean Inc Atlanta	404-233-2939
IL	Ellinger Sales Cary	312-639-1850
MA	Ad Systems Burlington	617-861-6370
MI	Gehrke & Assoc Southfield	313-559-5363
MS	G Marcos Minneapolis	612-374-5199
MN	K Byrd Jackson	601-981-1170
NY	J O'Shea Rochester	716-427-7860
NY	P Bartlett Syracuse	315-463-1248
NC	S Elam Charlotte	704-536-0303
NC	T Michael Raleigh	919-876-4130
OH	Scientific Systems West Carrollton	513-253-3141
TN	C Sullivan Knoxville	615-693-7450
TN	L Hatfield Memphis	901-276-4442
TX	Barry Sales Richardson	214-234-0255
UT	Macronix Inc Murray	801-261-4867

DISTRIBUTORS

CA	W Treleven Mt View	415-968-1080
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HANDY & HARMAN 850 THIRD AVE		
NEW YORK NY 10022		
TWX 710-581-3397		212-752-3400
P SEXTON EMP 1000 ENG 11 OVER \$10,000K		
CA	Handy & Harman El Monte	CU 3-8181
IL	Handy & Harman Elk Grove Vlg	625-0944
MA	Handy & Harman Attleboro	226-1000
NJ	Handy & Harman Northvale	767-0800
OH	Handy & Harman Westlake	835-9120
TX	Handy & Harman Dallas	387-2501
FR	Handy & Harman of Can Ltd	
	Rexdale ON	387-2501

HANDY & HARMAN ELECTRONIC		
MATLS CORP 72 ELM ST		
NORTH ATTLEBORO MA 02760		
TXW 710-346-0201	617-695-1401	
C LEHMAN EMP 550 ENG 16		
AZ	T Longo Phoenix	602-269-5627
CA	B Kundlich Mt View	408-735-1150
CA	Sam Gerard Redondo Beach	813-725-1841
CT	Compak Wethersfield	203-563-4784
KS	H L Thompson Desoto	913-585-1810
NJ	J Brown Morganville	201-536-8010
NY	J Lazor Rochester	716-461-4040
NY	Trymet Tryon	704-859-9556
PA	Tom Armstrong & Assoc Lancaster	717-397-2942
TX	Worth & Assoc Carrollton	214-394-1070

HANDY & HARMAN TUBE CO WHITEHALL RD NORRISTOWN PA 19401 TWX 510-660-1793 W SPELLANE EMP 225	215-539-3900
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HANDY PRODUCTS/RSP ELEC 7 BUSINESS PK DR BOX 699 BRANFORD CT 06405 TWX 910-997-0684 R PORTUGAL	203-488-6603
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HARBISON INDUSTRIAL PRODUCTS SUB POLYMER CORP 7205 HIBBS LA LEVITTOWN PA 19057 E ORRINO EMP 50 ENG 1	215-943-9000
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For Sales Offices See Polymer Corp Listings

HARBOR ELECTRONICS INC 650 DANBURY RD RIDGEFIELD CT 06877 TWX 710-467-0699.....		203-438-9625
I SJUNNEMARK EMP 75 ENG 5		
CA	Chuck Cooper Co Buena Park.....	714-739-8526
CA	Norwest Electronics Los Gatos.....	408-395-1190
FL	Onyx Assoc Ft Lauderdale.....	305-733-9263
MD	Macro Tech Assoc Glen Burnie.....	301-437-5588
MJ	Teskey & Assoc Fridley.....	612-571-0876
NN	J A Kais Assoc Roebing.....	609-499-9488
NY	Northeastern Electronics Cazenovia.....	315-475-2187

HARBOUR INDUSTRIES INC BOX 188		
SHELburne VT 05482		
TWX 510-299-0010		802-985-3311
J GAREN EMP 90 ENG 4 OVER \$10,000K		
CA	Barcel Wire & Cable Irvine	714-863-0300
FL	Glenn Tech Sales Orlando	305-299-8700
IL	Donco Arlington Hts	312-392-5783
KS	John F Guernsey Co Overland Pk	913-381-2225
MA	M A Olsen Assoc Newton	617-244-4030
MN	Custom Products Plymouth	612-546-9259
NJ	D J Fisher Co Ho-Ho-Kus	201-652-0090
NY	B H Tollefson Assoc Rochester	716-271-4141
OH	G W Thelen Co Ft Mitchell	606-241-8181
PA	Metz Assoc Ardmore	215-649-3966
TX	Service Assoc Crowley	817-297-4604
FR	Vitel Elctns St Laurent PQ	514-331-7393

HARDIGG INDUSTRIES INC N MAIN ST SOUTH DEERFIELD MA 01373 TWX 955431 N ROBERTS EMP 180 ENG 12	413-665-2163
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HARDMAN INCORPORATED 600 CORTLANDT ST BELLEVILLE NJ 07109 TWX 710-995-4940		201-751-3000
C SANFORD EMP 90 ENG 20 OVER \$10,000K		
CA	Litco Assoc Garden Grove	714-893-5081
IL	P Leek Park Forest	312-748-8011
MA	T DeSisto Hubbardston	617-928-5123

NC	J J Doyle Charlotte	704-552-9985
TX	B T Hill Rockwall	214-475-0565

HAROWE SERV CONTROLS INC		
WESTTOWN RD WEST CHESTER		
PA 19382 TWX 510-663-0335		215-692-2700
C BECKER EMP 275 ENG 15 \$5,000-\$10,000K		
AZ	TC Electronic Sis Scottsdale	602-994-5153
CA	Westalronics Inc Culver City	213-641-4122
CA	Quigley Entnps Belmont	415-591-6319
CO	Spectrum Mktg Assoc Denver	303-480-9991
CT	H N Smith Windsor Locks	203-627-9940
FL	Over & Over Inc Coral Springs	305-753-7050
IL	KMA Sales Co Rolling Meadows	312-398-5300
IN	J & B Eng Sis Co Ft Wayne	219-483-2813
MO	ARD Sales Co Cedar Rapids	319-393-6392
MO	Abrams & Assoc St Louis	314-569-0447
NH	Mark Rep Assoc Plaistow	603-382-9563
NJ	R C Assoc Westwood	201-664-1241
NY	A & D Devices East Rochester	716-385-2778
NC	Over & Over Charlotte	704-527-3070
OH	Raystan Controls Dayton	513-962-2517
PA	Homer Smith Inc Media	215-543-2434
TX	Robt R Thomas Co Addison	214-233-8235
WA	Poggi Assoc Bellevue	206-544-2026
FR	Subtec Ltd Ottawa ON	613-744-3066

HARPER ELECTRIC FURNACE CORP SHELDON & DRILLARD AVES LANCASTER NY 14086 TWX 710-263-1380 N RUSSELL EMP 75 ENG 10 \$5,000-\$10,000K	716-684-7400
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HARREL INC 16 FITCH ST EAST NORWALK CT 06855 W BECKER	203-866-2573
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HARRIS CALORIFIC DIV EMERSON ELEC CO 400 CLARK ST ELYRIA OH 44036	216-961-5700
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HARRIS CORP COMPUTER SYSTEMS DIV		
2101 W CYPRESS CREEK RD		
FT LAUDERDALE FL 33309		
TWX 5109569473		305-974-1700
F CAROLLO EMP 1100 ENG 400 OVER \$10,000K		
AZ	Harris Computer Systems Phoenix	602-997-4980
CA	Harris Computer Sys San Mateo	415-349-5900
CA	Harris Computer Sys Culver City	213-641-5032
CO	Harris Computer Sys Englewood	303-799-8600
FL	Harris Computer Systems Orlando	305-629-5020
GA	Harris Computer Systems Atlanta	404-256-4000
HI	Harris Computer Systems Honolulu	808-523-5991
IL	Harris Computer Systems Rosemont	312-692-4960
KS	Harris Computer Sys Shawnee	
	Mission	913-384-0882
MA	Harris Computer Sys Burlington	617-273-1020
MI	Harris Computer Systems Troy	313-879-2021
MN	Harris Computer Sys Bloomington	612-854-7375
MO	Harris Computer Sys Brentwood	314-961-9927
NY	Harris Computer Systems New York	212-966-7600
OH	Harris Computer Sys Cincinnati	513-563-7800
PA	Harris Computer Systems Wayne	215-687-4010
TX	Harris Computer Systems Dallas	214-248-3218
UT	Harris Computer Systems SLC	801-328-2504
VA	Harris Computer Systems McLean	703-448-5470
WA	Harris Computer Systems Bellevue	206-453-0303

HARRIS CORP DRAGON DIV		
809 CALLE PLANO CAMARILLO		
CA 93010		805-987-9511
B WITT EMP 500 ENG 40		
CA	M Chase Anaheim	714-921-1156
CA	K Boutillier Cypress	714-892-1439
CO	R JONES Denver	303-337-7779
FL	J Hearsey Eustis	904-589-4412
IL	H Darnell Fisher	217-897-6666
MO	G Foster Lake Ozark	314-365-5055
MO	C Allen Manchester	314-394-9120
PA	I Morris Gettysburg	717-334-1721

HARRIS CORP FARINON DIV		
1691 BAYPORT AVE SAN CARLOS		
CA	94070 TWX 34-8491.....	415-594-3000
J GRAAF EMP 1500 ENG 100 OVER \$10,000K		
IL	Farinon Div Rosemont	312-692-4960
TX	Farinon Div The Woodlands..	713-363-4567
FR	Farinon Canada 657 Orly Ave Dorval Que.....	514-636-0977

HARRIS CORP GOVT SUPPORT SYS DIV		
6801 JERICHO TPK SYOSSET		
NY	11791 TWX 510-222-4494	516-364-0400
J PRICE EMP 3000 ENG 700		
CA	T L Snitzer Co LA	213-836-6170
CA	T L Snitzer Co Cupertino	408-257-8333
CO	Aztec Entnps Littleton	303-795-0250
KS	Technical Sales Assoc Shawnee	
	Mission	913-888-3330
MN	Bohlig & Assoc Mnpls	612-922-7011
NJ	G L Williams Assoc Haddonfield	609-428-6060
NM	Aztec Entnps Albq	505-255-2440
VA	Q T Electronics Annandale	703-941-4242
WA	Datacom Assoc Seattle	206-285-2525
FR	Louis Albert Assoc Ottawa ON	610-562-8918

HARRIS CORP GOVT SYS SECTOR BOX 37 MELBOURNE FL 32902 TWX 510 9596182 EMP 10000 ENG 3000 OVER \$10,000K	305-727-4000
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HARRIS MFG CO INC BOX 38 BILLERICA MA 01862 TWX 710-347-6623 W WALSH EMP 50 ENG 5 \$2,500-\$5,000K	617-667-5116
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HARRIS CORP RF COMMUN GRP 1680 UNIVERSITY AVE ROCHESTER NY 14610 B FENNIE EMP 1600	716-244-5830
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HARRIS SEMICONDUCTOR BOX 883		
MELBOURNE FL 32901		
TXW	510-959-6259	305-724-7418
B WAGNER OVER \$10,000K		
AL	S Gary Huntsville	205-837-8886
AZ	Compass Mktg & Sales Phoenix	602-966-0635
CA	Brooks Tech Group Mt View	415-960-3880
CA	Hadden Assoc San Diego	619-565-9444
CO	Component Sales Englewood	303-779-8060
CT	Phoenix Sales Co Ridgefield	203-438-9644
FL	Delmec Sales Ft Lauderdale	305-726-1330
GA	J Bohne Atlanta	404-256-4000
IL	Oasis Sales Elk Grove Vlg	312-640-1850
IN	Corrao-March Inc Ft Wayne	219-637-5548
KS	Advance Technical Sales Olathe	313-782-8702
MA	M Marsh Burlington	617-273-5942
MI	Tri-Tech Sales Farmington Hills	313-553-3370
MN	Cahill Schmitz & Cahill St Paul	612-646-7217
NH	Access Systems Corp Nashua	603-888-5128
NY	Trionic Assoc Great Neck	516-466-2300
NY	Gen-Tech Elctns Liverpool	315-451-3480
NC	J Phillips Raleigh	919-847-8985
OH	Midwest Mktg Assoc Dayton	513-433-2511
OR	D PPost Vancouver	503-283-7027
PA	L D Lowery Inc Broomall	215-566-5300
TX	Nova Marketing Dallas	214-750-6082
WA	W Christensen Federal Way	206-838-4878
FR	Blakewood Elect Sys West Vancouver BC	604-926-8000
FR	Clark-Hurman Assoc Brampton ON	416-453-1118

DISTRIBUTORS

CA	Anthem Electronics San Jose	408-946-8000
CA	Hamilton/Avnet Culver City	213-558-2000
CA	Western Microtech Sales	
	Cupertino	408-725-1660
MA	R C Components Wilmington	617-273-1860
MA	Lionex Elect Wilmington	617-657-5170
NY	Schwabe Electronics Westbury	516-334-7474
NY	Add Elect East Syracuse	315-437-0300
NY	Falcon Electronics Hauppauge	516-724-0980
TX	Hall-Mark Electronics Dallas	214-343-5000
FR	Semad Electronics Markham ON	416-475-8500
FR	L A Varah Edmonton AB	403-461-2222

HARTLEY PRODUCTS CORP BOX 316 RAMSEY NJ 07446 R SCHMETTER EMP 15 ENG 2 \$1,000-\$2,500K GA Audio-Video Mktg Atlanta	201-327-4443 404-256-4388
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HARTWELL CORP 900 S RICHFIELD RD PLACENTIA CA 92670 TWX 910-596-1294 EMP 430 ENG 15 OVER \$10,000K	714-993-4200
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HARVA CO INC 100 FAIR ST		
SCHOHARIE NY 12157		518-295-8101
S MCGHARIE EMP 50 ENG 2 \$1,000-\$2,500K		
AZ	Burro Engrd Sales Scottsdale	602-949-5010
FL	Lead Time Concepts Ft Lauderdale	305-741-1245
MA	Betronic Assoc Waltham	617-894-8400
NJ	W Griffin Edison	201-846-4136
NY	B Gathercole Morrisville	315-662-3310
TX	Talo Products Inc Dallas	214-644-6010

HARVEL PLASTICS INC BOX 757E EASTON PA 18042 J WILLIAMS EMP 55 ENG 3 \$5,000-\$10,000K	215-252-7355
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HARVEY HUBBELL INC BOX 3999		
BRIDGEPORT CT 06605		
TWX 964213.....		203-333-1181
W MURPHY EMP 800 ENG 20		
CA	Harvey Hubbell Inc San Ramon	415-838-1982
GA	Harvey Hubbell Inc Atlanta	404-256-2300
IL	Harvey Hubbell Inc Broadview	312-379-7920

HARWELL ENTERPRISES INC 1617 S YORK RD GASTONIA NC 28052 TWX 802175 R HARWELL EMP 82	704-864-9777
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HARWIL CO 1548 17TH ST SANTA MONICA CA 90404 H HUTCHINSON EMP 7 ENG 2 \$250-\$500K	213-829-2310
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DISTRIBUTORS

CA	Acme Ind Sply Los Angeles	213-323-3211
CA	MacDonald & Co Glendale	213-241-1101
PA	H Mann Inc Huntingdon Valley	215-355-7200
PA	Techni-Tool Plymouth Mtg	215-825-4990

HARWORTH MFG CO 136 OAKWOOD DR REDWOOD CITY CA 94061 EMP 3 ENG 1	415-369-3644
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HASCO COMPONENTS INC 247-40 JERICHO TPK BELLROSE VILLAGE NY 11001 TWX 710-582-5750 EMP 12 ENG 3 \$5,000-\$10,000K ADV PG 392	516-328-9292
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HATHAWAY CORP 5250 E EVANS AVE DENVER CO 80222 TWX 45-4542 R KLINKERMAN EMP 100	303-756-8301
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HAYDON SWITCH & INSTRUMENT INC		
1500 MERIDEN RD WATERBURY		
CT 06705 TWX 643852		203-756-744
J MILLS EMP 350 ENG 12 OVER \$10,000K		
CA	Airsupply Co Torrance.....	213-538-508
CA	Cumminas & Assoc Canoga Pk	213-340-603

HAYES MICROCOMPUTER PRODUCTS INC
BOX 105203 ATLANTA GA 30348
TWX 703500 404-449-8791
J WILSON

DISTRIBUTORS

CA Computer Potentials Santa Clara 408-980-9100
CA Micro D Fountain Valley 714-540-4781
CA Softsel Computer Prods Inglewood 213-412-1700
IL Kaltronics Northbrook 312-291-1220
IL D MacNeil Elk Grove 312-952-8300
IL Micro United Forest Park 312-771-1550
MD Distribusoft Laurel 301-498-4000
MD Software America Lanham 301-459-2100
MA Microamerica Waltham 617-647-9340
NY Arrow Electronics Melville 516-391-1381
NY F A Components Elmhurst 212-507-1444
SC Innovative Computer Mktg Greenville 803-288-2422
WA Sigma Bellevue 206-454-6307

HAYSITE REINFORCED PLASTICS

5599 NEW PERRY HWY ERIE
PA 16509 814-868-3691
P STEVENS EMP 140 ENG 5 OVER \$10,000K
CA Synthane-Taylor LaVerne 714-593-1341
CA Synthane-Taylor Pleasanton 415-591-8929
CO Synthane-Taylor Saratoga 415-591-8929
IL F Carozza Northbrook 312-541-8584
NJ M Early Beach Haven Terrace 215-248-6308
PA S Hedderick Erie 814-868-3691
TN C Shepherd Powell 615-525-1991
TX Paul Tate & Assoc Dallas 214-231-9939

HAZELTINE CORP COMMACK

NY 11725 TWX (510) 221-2113 516-462-5100
R FISCHER EMP 2425 ENG 600 OVER \$10,000K
DC Hazeltine Corp Arlington 703-892-1800
IL Hazeltine Research Corp Chicago 312-833-5060
MA Hazeltine Corp Boston 617-848-3400
NY Hazeltine Corp Greenlawn 516-261-7000
VA Hazeltine Corp Reston 703-620-6800

H B S EQUIPMENT CORP 3000

SUPPLY AVE LOS ANGELES
CA 90040 TWX 910-580-3179 213-726-3033
M WEDMAN EMP 50 ENG 5 \$2,500-\$5,000K
AZ Hill & Co Scottsdale 602-990-2925
CA Carmel Chemicals Morgan Hill 408-778-2878
CO Chem-Fin Inc Denver 303-369-7300
FL Gra-Mar Inc Orlando 305-894-3351

HDR POWER SYSTEMS INC 600

OAKLAND PK AVE COLUMBUS
OH 43214 TWX 246-524 614-262-6832
R GANDY EMP 60 ENG 2 \$5,000-\$10,000K
AL Spader & Assoc Birmingham 205-879-1366
CA Cunningham Co Rosemead 213-350-1461
CA Geo E Honn Co Emeryville 415-653-0737
FL Rowe Engrg Sales Maitland 305-834-2700
GA Spader & Assoc Decatur 404-296-3024
IL M J Fein & Co Northbrook 312-564-0430
IA Cahoon Sales Iowa City 319-351-4989
KS Maxima Electrical Sales Shawnee Mission 913-722-1591
MN Klass Co Mpls 612-338-8427
MO M J Fein & Co Holliston 617-429-4008
NE Cahoon Sales Elkhorn 402-298-4200
NJ M J Fein & Co Livingston 201-994-3575
NY M J Fein & Co Scarsdale 914-472-1100
NC Jake Rudisill Assoc Charlotte 704-377-6901
OH M J Fein & Co Columbus 614-488-6446
PA Systems Control Assoc Media 215-565-2077
TN Spader & Assoc Knoxville 615-690-0501
TX Lynn Elliott Co Missouri City 713-499-1571
UT Instrumentation Sales SLC 801-277-2044
WA McLaren Inc Bellevue 206-454-3400

HEADWAY RESEARCH INC 3713

FOREST LA GARLAND TX 75042
TWX 73-0257 214-272-5431
C BURNETT EMP 55 ENG 5
CA CTS Inc Tarzana 213-343-3131
CA CTS Santa Clara 408-496-1156
PA Blason Intprs Haverford 609-767-6733

HEAT SYSTEMS-ULTRASONICS INC

1938 NEW HWY FARMINGDALE
NY 11735 TWX 14-3101 516-694-9555
A DESTEFANO EMP 28 ENG 5 \$1,000-\$2,500K

HEATH CO BENTON HARBOR

MI 49022 TWX 72-9421 616-982-3200
EMP 1500

HEATH TECNA AEROSPACE CO

19819 84 AVE S KENT WA 98032
TWX 910-447-2958 206-872-7500
O KIPHART EMP 800 ENG 80

HEI INC 1495 STEIGER LK

LA BOX 5000 VICTORIA MN 55386
TWX 910-578-3961 612-443-2500
DKUNZ EMP 200 ENG 10 \$5,000-\$10,000K
AL Rep. Inc Huntsville 205-881-9270
CA Leddy Assoc Mt View 415-969-6313
CA Masco Electronics L A 213-295-7781
CO Ausco Sales Littleton 303-770-1616
FL CBC Elctns Coral Springs 305-755-1111
GA Rep Inc Tucker 404-938-4358
HI Leddy Assoc Honolulu 808-947-6188
IL Micro-Tex Hoffman Estates 312-382-3001
MI Multimore Sales Novi 313-349-0260
NH Sales Engineering Salem 603-893-5521
NJ Colrud Corp Pitman 609-589-5866
NY Coughlin Assoc Deer Park 516-242-4020
NC Rep Inc Raleigh 919-851-3007
TN Rep Inc Jefferson City 615-475-4105
TX Welko-Paulson Richardson 214-680-9588
WA Comtec Bellevue 206-453-1188

HEINEMANN ELECTRIC CO 2630

BRUNSWICK PIKE BOX 6800
LAWRENCEVILLE NJ 08648
TWX 843-431 609-882-4800

N ALZAMORA EMP 893

AZ O'Donnell Assoc SW Phoenix 602-944-9542
CA O'Donnell Assoc North San Jose 408-263-6503
FL Conley & Assoc Oviedo 305-365-3283
GA Austin Brown Assocs Atlanta 404-457-6381
IL D Dolin Sales Co Northbrook 312-498-6770
IN O H Bromberg & Assocs Ft Wayne 219-456-6010
KY O H Bromberg & Assoc Louisville 502-245-8916
MD Imatron Sales Co Pikesville 301-521-2020
MA Sullivan Tech Sales Framingham 617-620-0195
MI L H Dickelman Co Southfield 313-353-8102
MN Furber Sales Co Mpls 612-881-3620
MO Hill and Co Creve Coeur 314-432-1136
NJ Ballou Inc Ridgewood 201-444-6990
NY Canavan-Scanlon Assoc Syracuse 315-437-1271
NY Canavan-Scanlon Assoc Rochester 716-424-1830
NC Jake Rudisill Assoc Charlotte 704-377-6901
OH Brown Elec Prods Cleveland 216-331-2072
OH O H Bromberg & Assocs Cincinnati 513-771-9333
OH K W Elctn Sales Inc Dayton 513-890-2150
PA DVS Co Washington Crossing 215-493-4642
TX Glidden Electro Equip Co Dallas 214-341-0610
WA Temco Northwest Bothell 206-821-5434
WI Key Enterprise Inc Elm Grove 414-784-3930
FR Heilmann Elec Can Ltd Montreal, Que 514-332-1163

DISTRIBUTORS

AL Southern Controls Montgomery 205-277-5030
CA Campbell & George Co Burlingame 415-594-1994
CA Cazzo Sales San Jose 408-263-6503
CA Poco Sales Chatsworth 818-700-8727
CA Master Distributors Los Angeles 312-452-1229
CO C S I D Inc Denver 303-292-9554
CO Jet Electronics Aurora 303-364-1000
CT L E Whelan Co Hartford 203-246-5694
CT Green Shaw Co New Haven 303-397-0710
FL Dixie Sales Oviedo 305-365-5211
IL Classic Comps Sply Northbrook 312-272-9650
IL Nedco Electronics Morton Grove 312-966-6000
IL Newark Electronics Chicago 312-784-5100
IN Graham Electronics Indpls 317-634-8202
KS C Tennant & Sons Edwardville 913-441-1801
MA Apparatus Service Boston 617-787-1300
MA Green Shaw Co Newton 617-969-8900
MI Michigan Lctrls Southfield 313-353-1350
NH C & H Electronics Hudson 603-882-1133
NY Power Electro Supply Whitestone 212-767-1447
NY Baldwin Hall Syracuse 315-463-9251
NY Help Electronics Johnson City 607-729-3528
NC Joyce Sales Co Charlotte 704-377-1555
OH Cartessa Corp Shawnow 513-738-4477
OH Duellman Electric Co Dayton 513-461-5010
OH Newark Electronics Valley View 216-447-8860
OH Stotts Friedman Co Dayton 513-298-5555
OH Taylor Electric Supply Portland 503-233-5121
PA Riverside Components Washington Crossing 215-493-5228
PA West Chester Elec Elctns West Chester 215-696-7500
PA REM Electronics Erie 814-453-5626
TN Techni-Tronics Chattanooga 615-875-5449
TX Geeco Sales Co Dallas 214-341-2626
VA Virginia Radio Sply Charlottesville 804-296-4184
VA Gent Elec Supply Richmond 804-358-4941
WI Hunt Co Milwaukee 414-383-1781

HEKIMIAN LABS INC 9298

GAITHER RD GAITHERSBURG
MD 20877 TWX 89-8399 301-840-1217
J SAVENS EMP 397 ENG 29 OVER \$10,000K
CO Hekimian Labs Pine 303-838-0221
GA Hekimian Labs Roswell 404-587-0845
IL Hekimian Labs Wheaton 312-462-1183
MO Hekimian Labs Ballwin 314-458-3500
NJ Hekimian Labs Morganville 201-536-4511
TN Hekimian Labs Kingsport 615-323-8430

HELENOR INDUSTRIES INC

35-A COLONIAL PL MT VERNON
NY 10550 TWX 4971793 914-667-3535
EMP 14 ENG 2 \$1,000-\$2,500K

HELICAL PRODUCTS CO INC BOX 1069

SANTA MARIA CA 93456
TWX 910-351-5856 805-928-3851
H MERRELL EMP 55 ENG 3 \$2,500-\$5,000K
CA TechRep Assoc Lomita 213-539-9070
CA McFarland Assoc San Jose 408-286-9333
CO Gribble Sales Engrg Co Golden 303-279-4545
FL Hilco Inc Casselberry 305-695-6208
GA Hilco Inc Dunwoody 404-393-1771
IL Vikeland Sales Addison 312-832-8425
MA Hathaway Elctns Lexington 617-861-7010
MN Vikeland Sales St Paul 612-645-4647
MO Gribble Sales Engrg Co Independence 816-796-4333
NJ R P Luce & Co Piscataway 201-752-8750
NY R P Luce & Co New Hyde Park 516-437-4550
NY R P Kennedy Co Rochester 716-271-6322
NC Hilco Inc Charlotte 704-568-3938
OH Technical Assoc Inc Fairborn 513-878-4671
PA R P Luce & Co Phila 215-884-8365
SC Hilco Inc Mt Pleasant 803-884-0289
TX Electra III Dallas 214-358-0753

HELI-COIL PRODUCTS DIV MITE CORP

SHELTER ROCK LANE DANBURY
CT 06810 TWX 710-456-0336 203-743-7651
DLYALL EMP 350 ENG 19
AZ Jarko Assoc Phoenix 602-243-4387
CA Heli-Coil Prods El Monte 213-448-6131
CA F Aiola Box 2185 Menlo Park 408-448-7307
CO Crump Co Englewood 303-779-1473
CT F Burmann Brookfield Ctr 203-757-0727

GA J Doran Box 6951 Marietta 404-971-5857
IL S W Anderson Co Downers Grove 312-964-2800
IN S W Anderson Co Carmel 317-844-3100
KS John Reichmeier Box 6322 Leawood 913-381-2799
MI J Spiegelhalter Box 364 Howell 313-645-0099
NY S Saba Box 2176 Wilkes Barre PA 201-796-1129
NY R Hunt Box 268 Pawling 914-471-8509
OH G Wilson 3715 Benhill Cincinnati 513-531-5518
PA T C Pallas Fort Washington 215-664-5409
SC T. Bolinger 625 Rutledge Catawba 704-523-0850
TX Tarvin & Son Box 59986 Dallas 214-339-9010
WI S W Anderson Co Cedarberg 414-377-7901
FR R Struthers Montreal PQ 514-738-3668
FR Resources & Facilities Corp NYC 212-687-474

HELIONETICS INC DELTA ELCTN

CONTROL DIV 17312 EASTMAN
IRVINE CA 92714
TWX 910-595-2829 714-546-4731
S BOYLE EMP 150 ENG 15 OVER \$10,000K

HELIX SPRING CORP 35-10 10TH ST

LONG ISLAND CITY NY 11106 718-932-0300
W VEGH EMP 18 ENG 1 \$500-\$1,000K

HELLER CORP G K 2 MAYFLOWER PL

FLORAL PARK NY 11001 800-323-6674
J SNYDER EMP 25 ENG 3 \$500-\$1,000K
NV G K Heller Corp Las Vegas 702-736-3351

DISTRIBUTORS

CA Abco Co Torrance 213-831-9333
NY Controls Sales Inc Sysset 516-921-5656

HELLER INDUSTRIES INC 4

VREELAND RD FLORHAM PARK
NJ 07932 TWX 13-8983 201-377-6800
R MICHAELS

AR Productive Mfg Gassville 501-435-2004
CA Tech Systems Rancho Palos Verdes 213-377-7513
CA JSK Assoc Santa Clara 408-980-8575
CO Mid Mtn Rep Co Springs 303-598-1363
FL Century Automation Co Longwood 305-788-9202
GA Protech Systems Woodstock 404-926-0342
IL Vahey Assoc Crystal Lake 815-455-5972
MD Jones & Assoc Baltimore 301-752-0577
MI Linden Sales Burlington 617-272-1000
MI Murray A Percival Co Royal Oak 313-548-1977
MN Automation Products Co Golden Valley 612-545-8718
NJ Mills Assoc Haddonfield 609-429-1007
OH Ames Cleveland 216-572-1451
TX Mello Co Dallas 214-241-9196
WA Doland Co Bellevue 206-454-4955
WI Leow Assoc Milwaukee 414-354-4370
FR Airtorn Electronics Scarborough ON 416-494-3888
FR Sudouest Import Sales Co Santurce PR 809-726-3137

HELM INSTRUMENT CO INC

1387 DUSSEL DR MAUMEE
OH 43537 TWX 286078 419-893-4351
R WILHELM EMP 42 ENG 9 \$2,500-\$5,000K

HELWIG CARBON INC 2550

N 30 ST BOX 10267 MILWAUKEE
WI 53210 414-372-3111
J KOENITZER EMP 300 ENG 3

AZ J Travis Tucson 745-5452
CA J Fitch South Gate 213-563-2331
CA R B Peters Oakland 835-5113
CO R Ward Lakewood 985-5600
IL T Grutza Bannockburn 295-8444
ME R F Phillips Bangor 989-2541
MI W Clark Dexter 426-2251
MN D Cutsforth Grand Rapids 326-8261
MO I L Davidson Kansas City 333-2044
NJ J Conley Cinnaminson 786-873
NY Wm R Arnold Jamestown 664-5400
OH R R Parlett Franklin 423-2950
OK K Johnson Grand Prairie TX 988-0145
PA F W Schubert Erie 899-3737
TN D Berry Temple Memphis 386-3651
TX J C Guyton Humble 852-3635
UT D Pratt SLC 532-2502
VA Geo S Headford Salem 989-8127
WA D H Perkins Bellevue 641-7800
WI D Hallett Brookfield 786-1970

HENES PRODUCTS CORP 4301

E MADISON ST PHOENIX AZ 85034
TWX 530101 602-275-4126
G JOHNSON EMP 19 ENG 2 \$1,000-\$2,500K
AZ Southwest Sales Group Scottsdale 602-991-6711
CA Bohn Engrg & Machy Co San Francisco 415-467-0885
CT Technical Instruments Inc Stratford 203-368-4582
IL Ray/Wave & Co Elgin 312-931-7077
MA Technical Instruments Inc Wilmington 617-944-3930
NC F G Speidel Raleigh 919-787-4521
OH Howard Noyes & Assoc Dayton 513-274-2871
TX R W Mureen Co Dallas 214-369-7561
FR Subtec Ltd Ottawa ON 613-744-3066

HENSCHEL CORP 9 HOYT DR BOX 30

NEWBURYPORT MA 01950
TWX 294074 617-462-2400
F CLARK EMP 185 ENG 10 OVER \$10,000K
CA Allied Industries Carson 213-770-0004
CA Beck Elec Supply Emeryville 415-652-5662
LA Russ Equip Corp New Orleans 504-737-3623
NJ Chas Gillilan Inc Moorestown 609-235-3376
WA Ralston Cunningham Assoc Bellevue 206-455-0315
FR J E Fouchaux Can Ltd Toronto ON 416-960-5856

HERAEUS AMERSIL INC 650
JERNEES MILL RD SAYREVILLE
NJ 08872 TWX 84-4596 201-254-2500
EMP 170 ENG 15 OVER \$10,000K
CA Heraeus Amersil Santa Ana 714-558-8750
CA Heraeus Amersil Hayward 415-887-6111
GA Heraeus Amersil Atlanta 404-447-4848
MA Heraeus Amersil Plymouth 617-746-3057
TX Heraeus Amersil Euclid 216-382-3448
OH Heraeus Amersil Dallas 214-235-8835

HERAEUS-VOLKERT INC 222-34
96TH AVE QUEENS VILLAGE
NY 11429 TWX 142-338 718-464-8400
L LATTANZI EMP 250 ENG 5 OVER \$10,000K

HERMES ELECTRONICS LTD BOX 1005
DARTMOUTH NS B2Y 4A1
TWX 019-21744 902-466-7491
A LOGAN EMP 300 ENG 60 OVER \$10,000K

HERMETIC SEAL CORP 4232
TEMPLE CITY BLVD ROSEMEAD
CA 91770 TWX 910-3352 213-283-0411
C BURTZ EMP 200 ENG 12 OVER \$10,000K
CA Codella Mktg Group Cupertino 408-257-2561
CT Sands Co Marion 203-628-4363
FL MacKay Smith Orlando 305-423-4353
IL Howard Benjamin Assoc Glencoe 312-835-0150
MA Sands Co Woburn 617-935-7495
NJ Brunetta Sales Co Fairfield 201-227-2522
OH Del Steffen & Assoc Cleveland 216-461-8333
PA Tyler Griffin Co Paoli 215-647-1550
TX N & W Sales Arlington 817-461-4443

HERMETIC SWITCH INC BOX
1325 HWY 92 SO CHICKASHA
OK 73018 TWX 796125 405-224-4046
R HELMS EMP 175 ENG 6 \$2,500-\$5,000K
CA Van Gott & Assoc San Diego 619-280-1041
CA Van Gott & Assoc Arcadia 818-445-9728
GA Electro Technology Prods Atlanta 404-262-1522
MD Heller Sales Co Box 293 Timonium 301-252-4780
MA New Eng Elctn Sales Canton 617-828-4835
MN Peterson Elctns Mpls 612-944-0030
NY Current Industries Oceanside 516-678-3895
NY Electronic Mktg Assoc Rochester 716-427-8115
OR L D Elctns Box 626 Beaverton 503-649-6177
PA Avenir Inc Furlong 215-348-8290
TX R F Kimball Co Richardson 214-231-3447
WA L D Elctns Snohomish 206-568-0511

HERTZ FILTER CORP 3 AERIAL WAY
SYOSSET NY 11791 516-822-4770
B DWORIN EMP 25 ENG 2 \$100-\$250K

HESTIA INDUSTRIES & TECHNOLOGIES
3503 RYDER ST SANTA CLARA
CA 95051 TWX 4994047 408-737-1212
\$1,000-\$2,500K

HEURIKON CORP 3201 LATHAM DR
MADISON WI 53713 TWX 469532 608-271-8700
J MAHER EMP 90 ENG 17 OVER \$10,000K
AZ Holder Hauer Phoenix 602-242-4025
CA Mesa Engrg & Sales San Diego 619-778-8021
CA Qualtech Assoc Concord 415-680-1800
CO Holder Hauer Aurora 303-686-8677
FL Heurikon Corp Casselberry 305-767-0030
GA Magaro & Assoc 404-451-8862
IL Panatek 312-519-0867
IN Carter McCormick & Peirce Indpls 317-244-1685
KS Panatek Leawood 913-649-7999
MD Spectro Assoc Rockville 301-294-9770
MA Daner-Hayes Inc Wayland 617-655-0888
MI Carter McCormick & Peirce
Farmington Hills 313-477-7700
MN Micro Resources Corp Edina 612-830-1454
NM Holder Hauer Albuquerque 505-293-3601
OH Carter McCormick & Peirce
Englewood 513-836-0951
OK Acudata Inc Stillwater 405-743-1886
PA Carter McCormick & Peirce
Monroeville 412-372-4415
TX Acudata Inc Houston 713-580-2451
UT Holder Hauer Salt Lake City 801-532-2111

HEWLETT-PACKARD 3000 HANOVER ST
PALO ALTO CA 94304
TWX 910-373-1267 415-857-8000
EMP 85000 ENG 14450 OVER \$10,000K

AL Hewlett Packard Huntsville 205-830-2000
AZ Hewlett Packard Phoenix 602-244-1361
CA Hewlett Packard Lawndale 213-970-7500
CA Hewlett Packard Santa Clara 408-338-0586
CO Hewlett Packard Englewood 303-649-5000
CT Hewlett-Packard Wallingford 203-265-7801
FL Hewlett Packard Orlando 305-859-2900
GA Hewlett Packard Atlanta 404-955-1500
HI Hewlett-Packard Honolulu 808-526-1555
IL Hewlett Packard Rolling Meadows 312-255-9800
IN Hewlett Packard Indpls 317-842-1000
IA Hewlett-Packard West Des Moines 515-224-1435
LA Hewlett Packard Kenner 504-467-4100
MD Hewlett Packard Rockville 301-948-6370
MA Hewlett Packard Andover 617-862-1500
MI Hewlett Packard Troy 313-643-6474
MN Hewlett Packard St Paul 612-644-1100
MO Hewlett Packard Kansas City 816-763-8000
NJ Hewlett Packard Paramus 201-265-5000
NY Hewlett Packard Albuquer 505-292-1300
NY Hewlett Packard Liverpool 315-451-1820
NY Hewlett-Packard Woodbury 516-921-0300
NC Hewlett Packard Greensboro 919-852-1800
OH Hewlett-Packard Cleveland 216-243-7300
OK Hewlett-Packard Oklahoma City 405-946-9499
OR Hewlett-Packard Wilsonville 503-682-8000
PA Hewlett Packard Valley Forge 215-666-9000
SC H-P Columbia 803-732-0400
TX Hewlett Packard Richardson 214-231-6101

UT Hewlett Packard SLC 801-974-1700
VA Hewlett Packard Richmond 804-747-7750
WA Hewlett Packard Bellevue 206-643-4000
WV Hewlett Packard Charleston 304-925-0492
WI H-P Brookfield 414-784-8800
FR Hewlett-Packard Canada
Ltd Mississauga ON 416-678-9430

DISTRIBUTORS
CA Hamilton-Avnet Electronics
Headquarters Culver City 213-558-2000
NY Schweber Electronics Headquarters
Westbury 516-334-7474
TX Hall-Mark Electronics Headquarters
Dallas 214-343-5000

HEXACON ELECTRIC CO 161
W CLAY AVE, BOX 36 ROSELLE
PARK NJ 07204 TWX 138812 201-245-6200
R MILLER EMP 150 ENG 4
AL BJR Mfrs Reps Huntsville 205-881-3569
AZ Ross IV Assoc Tucson 602-299-1425
CA J F Pell & Co Sunnyvale 408-730-5869
CA Ross IV Assoc Newport Beach 714-650-5542
CO Production Equipment Sales
Denver 303-795-5022
CT H & M Assoc Woodstock 203-928-9442
FL James A Kennedy Co Merritt
Island 305-452-9821
IL Bradley Reps Elk Grove Village 312-228-8450
IN Bradley Reps Indpls 317-631-3106
MD B & W Marketing Phoenix 301-592-8907
MN PCC/LEVI & Assoc Edina 612-944-8540
NJ Dunn & Bryan Jersey City 201-963-4478
NY Verne Clair & Assoc New Hartford 315-735-8122
OH K D F Co Solon 216-248-8010
OR Northcoast Mfg Agly II Inc
Gladstone 503-657-9427
PA B & W Marketing West Chester 215-692-7165
TX P J Scanlon Co Dallas 214-231-4661
WA Northcoast Mfg Agly II Inc
Seattle 206-284-5024

HEXCEL CORP 11711 DUBLIN BLVD
DUBLIN CA 94566 TWX 335458 415-828-4200
B JOHNSTON EMP 2500 ENG 100 OVER \$10,000K
CA Hexcel Long Beach 213-595-6311
MD Hexcel Bel Air 301-838-0050
TX Hexcel Arlington 817-274-2578
WA Hexcel Bellevue 206-455-0418

HEYCO MOLDED PRODUCTS BOX 160
KENILWORTH NJ 07033
TWX 844771 201-245-0033
P MALKOWSKI EMP 96 ENG 6 \$2,500-\$5,000K
FR Cords (Canada) Ltd Toronto ON 416-787-1114

DISTRIBUTORS
CA Harper Sid Santa Clara 408-988-6041
CA Electronic Supply Riverside 714-683-7300
CA Fastening Systems Temple City 818-579-4600
CT Midstate Electronics Wallingford 203-265-9900
MA In-Stock Products Newton
Upper Falls 617-964-6200
MA Sager Electrical Sply Hingham 617-749-6700
MN Arden Fasteners St Paul 612-483-6681
WI Cable Components Waukesha 414-785-1060

HH CONTROLS CO INC 16 FROST ST
ARLINGTON MA 02174 617-646-2626
J SABO EMP 12 ENG 3 \$500-\$1,000K
CA Tucul Eng Co Montebello 723-4072

HIAC/ROYCO INSTRUMENTS DIV
141 JEFFERSON DR MENLO PARK
CA 94026 TWX 348323 415-325-7811
J ZWEERS EMP 200 ENG 14 \$2,500-\$5,000K
IL D Berdovich MI Prospect 312-298-6665
NY G Shinbrot Smithtown 516-543-1310

HICKOK ELECTRICAL INSTRUMENT CO
10514 DUPONT AVE CLEVELAND
OH 44108 TWX 810-421-8286 216-541-8060
N HOLLIDAY EMP 400 ENG 50 \$5,000-\$10,000K
MA RG Assoc Stow 617-897-7146
OH Bradcor Elctn Cleveland 216-261-0888
PA Precision Mktg Group Ardmore 215-649-6301
TX Nesbitt Co Dallas 214-357-4601
FR H Rogers Elctn Inst Ltd Ajax ON 416-683-4211

HIG CO INC 101 LOCUST ST
HARTFORD CT 06114
TWX 710-425-1379 203-522-8600
J PARSONS EMP 750 ENG 40 OVER \$10,000K

AL L & D Inc Huntsville 205-837-1489
AZ Westrep Phoenix 602-997-8899
CA Westrep Anaheim 213-404-3881
CA Westrep San Diego 619-566-6580
CO Omega Ltd Englewood 303-762-1921
FL Beacon Melbourne 305-724-8010
GA L & D Inc Atlanta 404-395-7079
IL Bransky Sales Highland Pk 312-433-2375
IN Given Co Ft Wayne 219-432-5585
IA Lorenz Sales Cedar Rapids 319-377-4666
KS Advanced Tech Sls Olathe 913-782-8702
MD Imagitron Pikesville 301-521-2020
MA Astro Rep New Eng Woburn 617-938-6697
MI Elliott Sales Ann Arbor 313-662-4082
MN Repco St Paul 612-642-2828
MO Advanced Tech Sls St Louis 314-878-2921
NE Lorenz Sales Lincoln 402-475-4660
NJ Astorrep Perth Amboy 201-826-8050
NY Astorrep Inc W Babylon 516-422-2500
NY Tri-Tech E Rochester 716-385-6500
NC L & D Inc Greensboro 919-292-3201
OH Electronic Comp Inc Miamisburg 513-866-3340
OR RTS Wilsonville 503-638-5670
TX Bonser-Philhower Richardson 214-234-8438
WA RTS Vashon 206-285-1363
WI Bransky Cedarburg 414-377-6837

DISTRIBUTORS
AL Hall-Mark Elec Huntsville 205-837-8700
AZ Hall-Mark Elec Phoenix 602-243-6601
AR Electro Entprs Little Rock 501-664-9207
CA Bell Indus Sunnyvale 408-734-8570
CA Norstan Elctns Santa Ana 714-540-4165
CA Integrated Elct Corp Chatsworth 213-998-2200
CA Cypress Elec Torrance 213-533-6005
FL Hallmark Elctns Orlando 305-855-4020
GA Hall-Mark Elec Norcross 404-447-8000
IL Classic Components Northbrook 312-272-9650
KS Lee Prods Wichita 316-264-2172
MD Hallmark Elctn Columbia 301-988-9800
MA ACI Electronics Woburn 617-935-7230
MN Ragon Elctns St Paul 612-642-2828
MO Hall-Mark Elec Maryland Hts 314-291-5350
NJ Relay Specialties Fair Lawn 201-797-3313
NY Midway Industrial Farmingdale 516-293-6800
NY Sherburn Electronics Hauppauge 516-231-4300
NY Peerless Radio Lynbrook 516-593-2121
NY Jaco Elec 145 Oser Av Hauppauge 516-273-5500
OK Electro-Entprs Okla City 405-478-1752
TX Hallmark Elctns Dallas 214-343-5000
UT Bell Ind Salt Lake City 801-972-6969
WI Classic Comp New Berlin 414-786-5300

HIGH ENERGY CORP LOWER VALLEY RD
PARKESBURG PA 19365
TWX 759888 215-593-2800
G GREISER EMP 86 ENG 7 \$2,500-\$5,000K

AL Electronic Mktg Assoc Huntsville 205-837-7363
CA King-Way Assoc Encino 213-788-4124
CA Engineering Assoc Santa Clara 408-988-5001
CO W H Howard Assoc Denver 303-426-3499
FL SRT Marketing Tampa 813-884-4805
GA Electronic Mktg Assoc Atlanta 404-448-1215
IL L & W Power Downers Grove 312-852-6464
IN TX Sales Ft Wayne 219-489-4447
KS Jack Barnes Assoc Overland Park 913-341-9317
MA New Eng Sales Corp Canton 617-828-4385
MN Jack Barnes Assoc Chanhassen 612-934-2907
NJ K & R Engrg Flanders 800-631-9362
NY D Hurley Pittsford 716-586-6159
NC Electronic Mktg Assoc Raleigh 919-847-8800
PA S & S Industries Trafford 412-372-1494
SC Electronic Mktg Assoc Greenville 803-233-4637
TX W Pat Fraila Co Arlington 817-640-9101
VA M & S Assoc Haddonfield, NJ 609-429-7055

DISTRIBUTORS
WI Centralab Elctcs Div Milwaukee 414-228-2911

HIGHLAND TECHNOLOGY INC
320 JUDAH ST SAN FRANCISCO
CA 94122 415-753-5814
J LARKIN EMP 5 ENG 1 \$1,000-\$2,500K

HIGH SPEED HAMMER CO INC
313 NORTON ST ROCHESTER
NY 14621 716-266-6740
D MARCELLUS EMP 30 ENG 3 \$500-\$1,000K
CA R Kaiden Garden Grove 714-636-5681
IL R Ziskal McHenry 815-385-9150

HIGHTMEP RESINS INC 225
GREENWICH AVE STAMFORD
CT 06902 203-357-7401
H ISENIJAN EMP 7 ENG 2 \$100-\$250K

HIGH VACUUM ELECTRONICS INC
BOX 1044 LUMBERTON
NC 28538-1044 TWX 56-1449356 919-738-1215
S SMITH EMP 12 \$250-\$500K
ADV PG 78

HIGH VACUUM EQUIPMENT CORP
110 INDUSTRIAL PK RD HINGHAM
MA 02043 TWX 710-348-0160 617-749-9000
D LOMBARDO EMP 68 ENG 15 \$5,000-\$10,000K

HILEVEL TECHNOLOGY INC
18902 BARDEEN IRVINE CA 92715
TWX 655-316 714-752-5215
J ROZNOIS EMP 50 ENG 6 \$5,000-\$10,000K
CA Ward/Davis Assoc Redondo Bch 213-643-6977
FL Synergetic Rep Inc Largo 813-586-2871
IL Berndt Assoc Chicago 312-283-0713
MA Martindale & Assoc North Redding 617-942-0514
NM Odyssey 1 Albuquerque 505-265-6645
NY P Martindale 315-487-0515
OR Northwest Test & Msmt Beaverton 503-646-9966
TX Data Mktg Assoc Dallas 214-661-0300

HILTON INDUSTRIES INC 1177
CATTLEMEN RD SARASOTA
FL 33582 TWX 810-864-4363 813-371-2600
F MOLONEY EMP 100 ENG 4 \$2,500-\$5,000K

AZ Chaparral Electronics Phoenix 602-252-0897
CA Corcoran Assoc Los Angeles 213-823-2425
CA Landia Sales San Jose 408-280-5695
CO Parker-Webster Parker 303-841-4888
FL Jack Harvey & Assoc Ft
Lauderdale 305-763-1945
IL Al Houtle & Assoc Streamwood 312-837-4066
KS Florence & Meyer Shawnee Mission 913-722-5210
MA RFC Elctn Sales Topsfield 617-887-8545
MN W Lee & Assoc Mpls 612-831-5056
NY BKT Assoc Rochester 716-586-5814
NY Cooper-Simon & Co Great Neck 516-487-1142
OH Baehr Greenleaf & Assoc
Cleveland 216-221-9030
PA Eltron Comp Sales King
of Prussia 215-783-5350
UT Parker-Webster Salt Lake City 801-487-5911
VA Eltron Comp Sales
Charolettville 703-635-7201

DISTRIBUTORS
FL Intertec Components Longwood 305-834-7777
GA Spectrum Electronics Norcross 404-448-1516

IL	Edmar Electronics Des Plaines	312-298-8580
IL	Schuten Electronics Hillside	312-449-5430
IL	Belford Electronics Melrose Park	312-865-2400
MA	ESI Westford	617-486-8495
NJ	J-Mar Electronics Clifton	201-772-6400
NY	M & Assoc Bardonia	914-623-3574
NY	ACI Plainville	516-293-6630
OH	Hughes Peters Inc Columbus	614-294-5351
PA	Advacom McKean	814-476-7774
TX	Altair Co Houston	713-462-3029
TX	C & W Supply Ft Worth	800-772-7716
WA	Shannon Ltd Kent	206-763-0545
FR	Baknor Ind Ltd Mississauga ON	414-784-2400

HIMMELSTEIN & CO S 2490 PEMBROKE AVE HOFFMAN ESTATES IL 60195.....		312-843-3300
S TVETER EMP 48 ENG 8 \$2,500-\$5,00K		
AL	Systematx Birmingham.....	205-979-2070
AZ	Luscombe Engrg Scottsdale.....	602-949-9333
CA	Luscombe Eng Co Pasadena.....	213-684-2000
CO	Measurement Consultants Boulder.....	303-449-7506
CT	Northeast Engrg Hamden.....	203-248-4481
FL	Systematx Eustis.....	904-357-5100
GA	Systematx Riverdale.....	404-471-3718
IA	BSI Ltd Bettendorf.....	319-355-5623
MD	Farrell Assoc Rockville.....	301-424-9460
MI	S Himmelstein & Co Detroit.....	313-427-2066
MN	Electronic Instr Consultants Eden Prairie.....	612-937-9701
NY	Davco Systems Grand Island.....	716-773-6600
TX	Measurement Sys & Sales Richardson.....	214-644-4954
FR	Megatronix Ltd Weston ON.....	416-742-8015

HIPOTRONICS INC ROUTE 22 BREWSTER NY 10509 TWX 710-574-2420 914-279-8091 S PESCHEL EMP 200 ENG 15 OVER \$10,000K ADV PG 346

AL	E J Ruth Assoc Birmingham	205-979-0880
CA	RDX Corp Sunnyvale	408-734-4500
CA	RDX Corp San Dimas	714-599-0985
CO	Hipotonics Fort Collins	303-224-5367
CT	Abbott Allison Co Branford	203-481-0405
FL	Hipotonics Daytona Bch Shrs	904-761-7130
HI	B F Wittenberg Co Honolulu	808-833-1602
IL	Ryan & Assoc Hawthorne Woods	312-438-2905
MN	Ainslie Co Edina	612-920-2996
MO	Fitzgerald Sales Co St Louis	314-862-1660
NY	Peter DeCew Agency Cazenovia	315-655-8602
OH	Hipotonics Columbus	614-868-1355
PA	Hipotonics Downingtown	215-269-5898
TX	Hipotonics Richardson	214-644-7607
FR	M R Franceschini Inc Santurce PR	809-725-7080
FR	A B Chance of Can Ltd Scarborough ON	416-759-1144

HIRAM JONES ELECTRONICS 11607 VANOWEN ST NORTH HOLLYWOOD CA 91605 213-875-0213 E REED EMP 8 ENG 1 \$100-\$250K

DISTRIBUTORS

HIROSE ELECTRIC USA INC 9254 DEERING AVE CHATSWORTH CA 91311			818-709-1247
AL	Hughes Assoc Huntsville	205-533-9108	
AZ	WJM Sales Tucson	602-888-4847	
CA	Logan Sales Santa Clara	408-496-0680	
CA	Logan Sales Roseville	916-771-0264	
CA	Landa/Minyard Los Angeles	213-879-0770	
CA	Landa/Minyard San Diego	619-457-0219	
CA	Landa/Minyard Santa Ana	714-543-7806	
CO	Thorson Rocky Mtn Englewood	303-779-0666	
FL	Jack Harvey & Assoc Clearwater	813-725-1841	
FL	Jack Harvey & Assoc Pompano Beach	305/972-0666	
GA	Hughes Assoc Norcross	404-662-1587	
IL	Spion Assoc Downers Grove	312-963-7011	
IN	REPS Collinsville	618-345-1808	
IN	Jack Harvey & Assoc Indpls	317-872-1031	
IA	Jack Harvey & Assoc Kokomo	317-453-4260	
KS	REPS Gladstone	618-452-1003	
KS	REPS Spring Hill	913-383-6228	
KY	Jack Harvey & Assoc Prospect	502-228-4100	
LA	Logic One Houston	713-981-0233	
MD	Phoenix Elctn Sales Phoenix	301-628-2066	
MA	Stone Comp Sales Framingham	617-875-3266	
MI	R C Nordstrom & Co Lathrup Vlg	313-559-7373	
MN	Johnson Co Mpls	612-941-8526	
MS	Hughes Assoc Corinth	601-287-2915	
NJ	ROI Sales Clifton	201-340-1515	
NY	Tech-Mark Inc Mendon	716-624-3840	
NY	Tech-Mark Inc Utica	315-733-0575	
NY	Tech-Mark Inc Endicott	607-748-7473	
NY	Tech-Mark Inc Batavia		
NC	Jack Harvey & Assoc Research Triangle Pk	919-361-5885	
OK	Intech Inc Akron	216-239-2202	
OK	Logic One Austin	512-459-1297	
OR	Power Sources Portland	503-292-0820	
PA	RJI Norristown	215-631-1414	
TN	Hughes Assoc Morristown	615-581-5971	
TN	Hughes Assoc Nashville	615-871-0908	
TX	Logic One Richardson	214-234-0765	
UT	Thorson Rocky Mtn West Valley City	801-973-7969	
WA	Power Sources Lynnwood	206-743-6641	

DISTRIBUTORS		
AL	World Distributors Huntsville.....	205-533-9108
AZ	Pacer Electronics Tempe.....	602-267-0299
CA	Computer Connection Hayward.....	415-489-6960
CA	ITT Elect Dist San Jose.....	408-279-0685
CA	PSC,Santa Clara.....	408-496-6151
CA	Deco Electronics Anaheim.....	714-630-8252
CA	Electro-Sonic Comps Hawthorne.....	213-970-0997

CA	PKC Costa Mesa	714-556-7007
CO	CSID Denver	303-292-9594
CT	Millennium Bridgeport	203-372-2037
GA	Century Elect Component Atlanta	404-449-3424
GA	Spectrum Electronics Norcross	404-448-1516
MA	Atronix/PCA Burlington	617-273-5595
MI	Electronic Connections MI Clemens	313-792-8400
MN	Glenmark Minneapolis	612-941-4825
NH	Astrum Elect Hampstead	603-329-5656
NH	Brevan Electronics Nashua	603-889-7230
NY	Add Dist Corp Farmingdale	516-752-9303
NY	Key Components Bohemia	516-567-7500
NC	Century Elect Comp Raleigh	919-872-2203
PA	Century Elect Comp Norristown	215-631-5400
PA	Steinburg Electronics Phila	215-223-9400
WA	Pan Pacific Elect Redmond	206-881-6456

HI-SHEAR TECHNOLOGY CORP 2830 W LOMITA BLVD TORRANCE CA 90505 TWX 910-347-7300 213-326-8110 J POTTER EMP 130 ENG 50 OVER \$10,000K

HISONIC INC BOX 1130 OLATHE KS 66061 TWX 4 2562 913-782-0012 W BONEBRIGHT EMP 120 ENG 6 \$2,500-\$5,000K ADV PGS 183,229

AZ	Arcom Sales Scottsdale	602-947-5745
FL	Mackay Smith & Assoc Orlando	305-277-1513
GA	Mackay Smith & Assoc Norcross	404-449-7444
KS	Florence & Meyer Shawnee Mission	913-722-5210
NC	Mackay Smith & Assoc Charlotte	704-372-1188
TX	AID Elctns Irving	259-4761

HISTAR CORP 1225 BROADWAY NEW YORK NY 10001 TWX 428873 212-679-2706 S PARK EMP 350 ENG 4 OVER \$10,000K

HI-STAT MFG CO INC 345 S MILL ST BOX 3128 LEXINGTON OH 44904.....		419-884-1219
R ANTOS EMP 365 ENG 5 OVER \$10,000K		
FL	Hi Stat Sarasota.....	813-388-1468
MI	Hi Stat Southfield.....	313-557-9200
OH	Hi Stat Lexington.....	419-884-1219

HITACHI DENSHI AMERICA LTD		
175 CROSSWAYS PK W WOODBURY		
NY 11797 TWX 510-221-1899.....	516-921-7200	
B MUNZELLE EMP 60 ENG 16 OVER \$10,000K		
CA	N Pisciotta S Wright Carson	213-538-4880
GA	G Nappo Doraville.....	404-451-9453
IL	Ro Russin Itasca.....	312-250-8050
TX	B Fadely Dallas.....	214-233-7623

HI-TECH COMPONENTS/MITSUBISHI INTL 520 MADISON AVE NEW YORK NY 10022 TWX 710-581-6762 212-605-2607 W ADIKES EMP 400 ENG 6 \$2,500-\$5,000K

AL	Beacon Sales Huntsville	205-881-5031
AZ	WJM Sales Co Tucson	602-888-4847
CA	S C Cubed Tustin	714-731-9206
CA	O C I San Jose	408-942-1070
CT	Orion Group Southington	203-621-8371
FL	Beacon Sales Boca Raton	305-392-3500
GA	Beacon Sales Atlanta	404-256-9640
IL	Eagle Tech Sales Rolling Meadows	312-991-0700
MA	Orion Group Wakefield	617-245-5220
MI	Action Comp Sales Novi	313-349-3940
MN	State of the Art Comps St Paul	612-228-0706
NY	F & F Metro Great Neck	516-482-4080
NY	Tacom Sales Rochester	716-647-3940
NC	Beacon Sales Raleigh	919-787-0330
OH	J C Hofstetter Co Medina	216-241-4880
OR	ES/Chase Co Beaverton	503-641-4111
TX	OM Sales Richardson	214-680-6746
WA	E S Chase Co Kirkland	206-823-9535

HI-TECH GOLD PLATING 363 FRANKLIN ST WORCESTER MA 01604 617-799-4168 J JORJIAN EMP 5 \$500-\$1,000K

HI-TECH INC 3600 16 ST ZION IL 60099	312-746-2447
S LAWSON EMP 35 ENG 3 \$2,500-\$5,000K	
CA Stevenson Co Woodland Hills	213-348-5506
CT Maher Assoc Manchester	203-649-8008
MI Mac Dougall Assoc Sheridan	517-291-3334
MN Electrical Comp Sales Mpls	612-933-2594
NY Talty Assoc Rochester	716-338-7646
NY Nenadal Entrps Seven Hills	216-524-4293
TN Wade Products Chattanooga	615-266-2262
WA Baxter Air Eng Bellevue	206-641-6118

HITRAN CORP RTE 31 RD 5-65 FLEMINGTON NJ 08822 201-782-5525 TWX 833701 K NEWQUIST EMP 130 ENG 15 \$5,000-\$10,000K

CA	RF Associates LA	213-478-1586
CA	RF Associates Palo Alto	415-494-3331
FL	Mackay Smith & Assoc Orlando	305-277-1513
GA	Mackay Smith & Assoc Atlanta	404-449-7444
ID	Calvert Controls Inc Boise	208-343-3964
MD	Electro-Mek Sales Inc Elktion	301-398-8148
MD	Calvert Controls Inc Billings	406-252-0064
NJ	Electro-Mek Sales Woodbury	609-423-5611
NY	G & A Sales Roslyn Hts	516-621-3223
NY	Donald Morin Moravia	315-497-1598
NC	Mackay Smith & Assoc Charlotte	704-372-1188
OH	Mohawk Intronic Dayton	513-434-8873
OR	Calvert Controls Inc Portland	503-222-6473
PA	Grege Glass Assoc Pittsburgh	412-366-6664
UT	Calvert Controls Inc SLC	801-531-8129
VA	Marktron Inc Charlottesville	804-973-5874
WA	Calvert Controls Inc Seattle	206-447-9375

HITMAN MATERIALS & MEDICAL COMPONENTS 9190 RED BRANCH RD COLUMBIA MD 21045 301-730-7800 B BEADLINE EMP 50 ENG 8

H & L INSTRUMENTS 1440 ROLLS RD BURLINGAME CA 94010 415-342-7850 TWX 296194

HMW ENTERPRISES 604 N SALEM RD ETTERS PA 17319 TWX 510-650-3536 717-938-4691 G SCHMUTZ EMP 50 ENG 4 \$2,500-\$5,000K

CA	Westech Inc 2000 Skyline Dr Fullerton	714-680-0933
CA	AGX Corp Santa Ana	714-754-1311
IL	Epstein Assoc Northbrook	312-584-9295
MA	C & J Assoc Walpole	617-668-3668
MN	Eagle Equipment Hibbing	218-263-5366
NC	Kent Controls Inc Charlotte	704-366-6758
OH	Automatic Controls Co Cincinnati	513-522-1118
TX	SCI Sales Dallas	214-931-1487
FR	Associated Test Equip Ltd Scarborough ON	416-497-2208

HOBSON BROTHERS INC 4940 W LAWRENCE AVE CHICAGO IL 60630		312-283-3600
EMP 60 ENG 4 \$2,500-\$5,000K		
CA	Corcoran Assoc Box 45897 LA	213-823-4589
IN	Specialty Manufacturers Indpls	317-241-1111
WA	Temco Northwest Bothell	206-625-0180

HODGE MFG CO INC 55 FISK AVE SPRINGFIELD MA 01107 413-781-6800

HOFFER FLOW CONTROLS BOX 130 PORT MONMOUTH NJ 07758 TWX 710-722-5624 201-787-1997 J FOSTER EMP 28 ENG 3 \$1,000-\$2,500K

AL	Vesco Huntsville	205-881-1494
AZ	Lee Crabtree & Assoc Paradise Valley	602-947-9003
CA	RDX Corp Pasadena	213-681-3451
MO	Vertec Assoc Manchester	314-394-6422
NJ	Tecrol Assoc Emerson	201-967-7640
NY	Darrell Controls Co Dewitt	315-472-8815
TX	Process Instruments Houston	713-893-3310
TX	Pan-Tech Controls Arlington	817-640-3232
WA	DCI/Alpha Issaquah	206-392-7521

HOFFMAN CO P R 321 CHERRY ST CARLISLE PA 17013 TWX 510-650-2285 717-243-2011 L KINGSBOROUGH EMP 125 ENG 4 \$2,500-\$5,000K

HOFFMAN ENGINEERING CO DIV FED CARTRIDGE CORP 9TH & TYLER ANOKA MN 55303 TWX 910-578-2211 612-421-2240 L MUEHLBAUER

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AZ	Ross-Bloom & Assoc Phoenix	955-5024
AR	Hicks Sales Agency Little Rock	568-2388
CA	J H Grace Co Santa Fe Sprgs	862-2145
CA	W Borden Co Walnut Creek	937-5196
CO	Gaer Sales 215 S Pecos Denver	777-3740
CT	L Bell 30 Tower La Avon	674-8447
FL	Shannon Assoc Inc St Petersburg	323-4300
GA	Holman-Lobsinger Co Atlanta	256-9120
HI	Specialty Prods Co Honolulu	531-0596
IL	KGA Engrg Co Chicago	477-8181
IN	Lester Sales Co Inc Indpls	244-7811
KS	Arehart-Barnes-Rains Sales Overland Pk	649-9270
KY	Lester Sales Co Louisville	634-8930
LA	Schell-Ranna Co Inc Metairie	837-7837
MD	O T Hall & Son Millersville	987-5990
MA	Larry Bell Assoc Framingham	872-4353
MI	Willis L Trombley & Son Farmington Hill	553-2200
MN	R D Schwen Engrg Anoka	427-8080
MS	Schell-Ranna Co Clinton	924-7894
MO	Martin Elec Sales Kirkwood	966-8659
NE	Electrical Products Co Omaha	393-3350
NJ	Waldron Assoc Morristown	538-5607
NY	Fox Agency Syracuse	488-0200
NC	Robert W Chapman Co Charlotte	525-2421
OH	W W Baerbaick & Assoc Cincinnati	984-5050
OK	Wayne G Parker Co Jenks	299-5449
OR	Fry Controls Portland	226-2620
PA	W J Cusick Elec Sales Willow Grove	659-6666
SC	R W Chapman Co Greenville	288-8821
TN	Chas W Ashby Co Signal Mtn	886-2698
TX	Electrical Agencies Co Arlington	261-5591
UT	J Henry Jones Co Sandy	571-8795
VA	J H Thrower Richmond	794-6819
WA	Muth-Richards Co Redmond	881-8841
WV	Myles F Smith & Assoc Dunbar	766-9910
WI	KGA Engrg Co Inc Milwaukee	778-1330

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HOLLEX INC 81 W WYOMING AVE MELROSE MA 02176 617-665-2413 H HOLLEY EMP 10 ENG 2

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J CHUGG EMP 170 ENG 25 OVER \$10,000K		
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CT Kimble Assoc Fairfield	203-746-6011	
FL Dyne-A-Mark Corp Ft Lauderdale	305-771-6501	
MD Conroy Sales Baltimore	301-296-2444	
NJ Addem Sales Fairfield	201-882-0993	
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NY Regan/Compar Albany	518-489-4777	
TX Bonser-Philhower Sales		
Richardson	214-234-0897	
WA Quest Marketing Bellevue	206-747-9424	

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D ENGRG INC 126 MOTT		
ST BOX 230 OCONTO WI 54153		
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TWX 944489	207-282-1521	
P BEAUCHESNE EMP 150 ENG 30		

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WA NR Shultz Co	206-454-0300	

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NJ ISSC Pine Brook	201-227-8246	
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PA Miller & Dietz Frazer	215-647-7373	
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FR Fry Controls Portland	503-226-2620	

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PA	Pennsylvania Scien Devices	
	Spring House	215-643-3335
TN	Tespec Morristown	615-587-0980
TX	Cindy Knox Mktg Svcs Houston	713-780-2516
VA	Dyna-Rep Co Alexandria	703-354-1222
WA	Marra & Assoc Bellevue	206-641-3535
HOWELL INSTRUMENTS INC		
	3479 W WICKERY BLVD FORT WORTH	
	TX 76107 TXW 758233	817-336-7411
	L HAWKINS EMP 150 ENG 12 OVER \$10,000K	
CA	Howell Inst Riverside	714-788-8150
MO	Howell Inst St Charles	314-946-6911
NY	Howell Inst Valley Stream	516-791-1000

VA	Howell Inst Norfolk	314-925-2414
HOYT ELECTRICAL INSTRUMENT		
	WKS INC 19 LINDEN ST BOX 6183	
	PENACOOK NH 03301	603-753-6321
	J LESTER	
H & T COMPONENTS INC 35		
	CARLOUGH RD BOHEMIA NY 11716	
	TXW 510-228-7886	516-567-2282
	B FREIFELD EMP 10 ENG 3	
AL	Advance Components Mktg	
	Huntsville	205-881-5493
AZ	Adek Inc Glendale	602-931-9289
CA	Class One Corp San Jose	408-297-8666
CA	Vale Electronics Irvine	714-551-4004
CO	Quatra Inc Littleton	303-795-3187
CT	Todino Engrg Sales Co Milford	203-874-6643
FL	CBC Electronics Longwood	305-831-5380
IL	Esco Assoc Des Plaines	312-298-5310
KS	Midtec Assoc De Soto	913-441-6565
MD	Arbotech Assoc Towson	301-825-0775
MA	Todino Engrg Sales Co Needham	
	Hts.	617-444-7925
MI	Favco Birmingham	313-644-0173
MN	D A Case Assoc Bloomington	612-888-8666
NY	Empire Tech Assoc Binghamton	607-772-0651
NY	J Squared Sales Hicksville	516-935-3200
NC	Hi-Tech Assoc Raleigh	919-781-4139
OH	Agnat Assoc Akron	216-273-1211
OR	Eclipse Marketing Beaverton	202-842-1661
PA	Component Consultants Medford	609-654-5300
TX	Mech-Tron Mktg Dallas	214-437-4833
UT	C Fields & Assoc SLC	801-531-6177
WA	Eclipse Marketing Redmond	206-885-6991
DISTRIBUTORS		
AL	Contact Electronics Huntsville	205-881-9321
AZ	Inland Electronics Tucson	602-294-2628
AZ	Pacer Electronics Tempe	602-829-0330
AZ	Southwest Sales Tucson	602-628-1613
CA	Bell Industries Mt View	415-960-1440
CA	C R Electronics Santa Ana	714-556-2040
CA	Konex Corp Corona	714-779-2055
CA	Peters de Laet S San Francisco	415-873-9595
CA	Timco Canuga Park	818-992-5040
CO	Colorado Computer Cable	
	Englewood	303-789-1869
CT	Accurate Electronics Bridgeport	203-368-0214
CT	Millennium Elect Bridgeport	203-372-2037
FL	Simcona Ft Lauderdale	305-485-4455
GA	Whitehead Electronics Norcross	404-923-6667
IL	Advent Electronics Rosemont	312-297-6200
IL	Components Inc Lisle	312-852-7707
LA	Ralphs Electronics Lafayette	318-234-4507
MD	Pytronic Industries Savage	301-792-0780
MA	Colonial Wire & Cable Lowell	617-459-6400
MA	Aved Electronics Wilmington	617-657-8310
MI	Calder Electronics Grand Rapids	616-698-7400
MN	Northern Automatic Assembly	
	Shoreview	612-481-0022
NH	Components North Manchester	603-624-4661
NY	Broadline Electronics Hauppauge	516-231-4100
NY	Summit Distributors Buffalo	716-887-2800
NY	Pride Electronics Farmingdale	516-293-4020
NC	Component Distributors Raleigh	919-834-9465
OH	Roberts Electronics Cleveland	216-238-1711
OR	Whitehead Electronics Columbus	614-224-1186
OR	Murphy Electronics Beaverton	503-642-2001
PA	Pytronic Montgomeryville	215-643-2850
TN	Mac-1 Electronics Knoxville	615-966-4143
TX	Computer Components Inc Addison	214-239-0271
TX	Ralphs Electronics Houston	713-748-4902
TX	Component Distributors Dallas	214-644-0373
UT	Pentec Enterprises SLC	801-972-4817
WA	Murphy Electronics Redmond	206-881-1234
HUDSON TOOL & DIE CO 18		
	MALVERN ST NEWARK NJ 07105	
	TXW 710-995-4445	201-589-1800
	A COPESTICK EMP 225 ENG 20 OVER \$10,000K	
MN	R G Ragon Inc St Paul	612-488-0201
HUGHES AIRCRAFT CO ASSEMBLY		
	& TEST PRODS 6155 EL	
	CAMINO REAL MS 132 CARLSBAD	
	CA 92008 TXW 910-322-1393	619-931-3622
	G SMITH	
CA	C D Buerki Co Campbell	408-374-8040
CA	Scott Hart Irvine	714-786-7191
CT	Lawrence Tessier & Assoc	
	Newington	203-665-0030
IL	Diether/ Angel Arlington Hts	312-593-7600
KS	Ransom Assoc Shawnee	913-631-5121
MA	M H Paetzold Lexington	617-863-5020
NY	Upstate Tech Equip Co Syracuse	315-487-6161
NC	Mac Gregor Assoc Charlotte	704-542-6001
OH	R R M Assoc Dayton	513-433-7761
PA	Jack Quinlan Philadelphia	215-364-2043
TX	Benchmark Sales Dallas	214-980-0143
UT	Specialty Sales West Jordan	801-561-0222
WA	Penryn Sales Seattle	206-782-8879
FR	Airtron Electronics Scarborough	
	ON	416-494-3888
HUGHES AIRCRAFT CO CONNECTING		
	DEVICES DIV 17150 VON	
	KARMAN AVE IRVINE CA 92714	
	TXW 910-595-2523	714-660-5701
	W MORRIS EMP 750 ENG 45 OVER \$10,000K	
HUGHES AIRCRAFT CO ELECTRON		
	DYNAMICS DIV 3100 W LOMITA	
	BLVD BOX 2999 TORRANCE	
	CA 90509 TXW 910-347-7321	213-517-6000
	G BERMAN EMP 2031 ENG 458 OVER \$10,000K	
MA	Hughes Electron Dynamics	
	Lexington	617-861-0358
OH	Hughes Electron Dynamics Dayton	513-224-1061
TX	Hughes Electron Dynamics Plano	214-578-4768

DIRECTORY OF MFRS: SALES OFFICES

VA	Hughes Electron Dynamics Arlington	703-525-1550
HUGHES AIRCRAFT CO IND PRODS DIV		
	6155 EL CAMINO REEL MS 216 CARLSBAD CA 92008	
	TXW 910-322-1393	619-931-3000
	K FINNEY	
HUGHES AIRCRAFT CO MICROELECTRONIC		
	CIRCUITS DIV 500 SUPERIOR AVE BOX H NEWPORT BEACH CA 92658-8903 TXW 900-596-1374	714-759-2411
HUGHES AIRCRAFT CO MICROELECTRONIC		
	SYS DIV 2601 CAMPUS DR IRVINE CA 92715	
	TXW 910-595-2435	714-752-3800
	J WATERS EMP 630 ENG 117 OVER \$10,000K	
HUGHES AIRCRAFT CO MICROWAVE		
	PRODS DIV BOX 2940 TORRANCE CA 90509 TXW 910-321-3145	213-517-6400
	R L LARSON EMP 1000 ENG 250 OVER \$10,000K	
AZ	Okysey 1 Phoenix	602-246-8846
CA	MCH Assoc San Jose	408-246-7330
CA	Blair Assoc Anaheim	714-220-1201
CO	FG Mktg Englewood	303-795-9176
CT	Ascor Elctns New Rochelle NY	914-235-8838
FL	E G Holmes & Assoc Orlando	305-894-8901
GA	E G Holmes & Assoc Chamblee	404-451-6161
IL	Cain-Forlaw Co Mt Prospect	312-253-3578
IL	EIR Co KC	816-452-7030
IA	EIR Co Leasburg MO	314-895-4100
MD	M Lader Co Columbia	202-296-2497
MO	EIR Co Kansas City	816-452-7030
NV	MCH Assoc San Jose CA	408-246-7330
NH	JPR Elect Sales Nashua	603-889-8285
NJ	Ascor Elctns New Rochelle	914-235-8838
NJ	M Lader Co Lafayette Hill PA	215-825-3177
NM	Odyssey 1 Albuquerque	505-265-6645
NY	R D Sherman Inc East Syracuse	315-433-1165
NY	Ascor Electronics New Rochelle	914-235-8838
NC	M Lader Co Raleigh	919-828-3870
OH	Cain-Forlaw Co Lancaster	614-654-4800
OK	Data Mktg Assoc Tulsa	918-438-4911
PA	M Lader Co Lafayette Hill	215-825-3177
TX	Data Mktg Assoc Dallas	214-661-0300
WA	Arva-Hudson Inc Bellevue	206-455-0773
HUGHES ELECTRONICS PRODUCTS CORP		
	34467 INDUSTRIAL RD LIVONIA MI 48150	313-427-8310
	R SMITH EMP 20 ENG 1 \$500-\$1,000K	
HUGHEY & PHILLIPS INC 3050		
	N CALIFORNIA ST BURBANK CA 91504 TXW 182900	213-849-1100
	C PHILLIS EMP 38 ENG 1 \$1,000-\$2,500K	
HULL CORP DAVISVILLE RD HATBORO		
	PA 19040 TXW 510-665-6822	215-672-7800
	E AVERY EMP 200 ENG 20 OVER \$10,000K	
CA	Kard Corp Orange	714-632-7611
CA	UKE Enrtps Orange	714-633-0463
IL	Sabre Sales Inc Lake Villa	312-356-1991
NC	S E Associates Raleigh	919-781-5507
DISTRIBUTORS		
OH	Plastic Processing Sys Cleveland	216-226-1177
TX	Ed Wuermser Assoc Richardson	214-231-4202
HUMISEAL DIV COLUMBIA CHASE CORP		
	26-60 BKLYN-QNS EXP WOODSIDE NY 11377	718-932-0800
	J WARYOLD EMP 150 OVER \$10,000K	
AL	BJR Mfg Reps Huntsville	205-881-3569
CA	M W Riedel & Co Alhambra	213-283-7694
CO	Arrowhead Elctns Arvada	303-423-5556
FL	Barrett Assoc Casselberry	305-699-0311
IL	Electro-Tech Mktg Assoc Chicago	312-588-4535
KS	L E Bruns Co Kansas City	913-287-5242
MD	Advanced Tech Sales Baltimore	301-583-8252
MA	Betronic Assoc Waltham	617-894-8400
MI	W R Cline Birmingham	313-642-2526
MN	Smiley-Scott Assoc Bloomington	612-888-5551
NJ	H Thaw Sales Co East Hanover	201-887-7011
NY	Gislason Sales Rochester	716-328-7400
OH	Marlow Assoc Cleveland	216-991-6500
VA	Reynolds Cowardin Assoc Richmond	804-266-3457
FR	Paisley Prods of Can Scarborough ON	416-751-3700
DISTRIBUTORS		
CA	Ultec Corp Alhambra	213-283-7690
CA	Target Electronics Mtn View	408-734-5611
IL	Miltec Sales Elmhurst	312-941-7100
TX	R D Spooner Dallas	214-357-6636
WA	R R Chase & Assoc Kirkland	206-823-6500
WI	Ellsworth Systems Milwaukee	414-354-3800
HUMPHREY INC 9212 BALBOA AVE		
	SAN DIEGO CA 92123 TXW 910-335-2001	619-565-6631
	H KRIES EMP 230 ENG 26 OVER \$10,000K	
CA	Harris Engrg Assoc Palo Alto	415-328-3370
CA	L L Stoakes Inc San Diego	619-452-1600
FL	Gra-Mar Inc Orlando	305-658-1971
IN	Carter McCormic & Peirce Indpls	317-244-1665
KS	C R Bonnell Wichita	316-721-2682
MA	High-Tech Sales Cohasset	617-653-3838
MI	Carter McCormic & Peirce Farmington	313-473-7700
NY	Eastern Metro Assoc Plainview	516-931-1414
OH	Carter McCormic & Peirce Englewood	513-836-0951
PA	Humphrey Inc Bensalem	215-752-9292
TX	W N Rider Co Dallas	214-357-2246
TX	Humphrey Inc Houston	713-774-2004

WA	H R Davis Tech Sales Co	
	Nine Mile Falls	509-466-1532
FR	Canrep Montreal PQ	514 933-6741

HUNTER PRODUCTS INC 792		
PARTRIDGE DR BRIDGEWATER		
MA	08807	
ADV	PG 172	201-526-8440

HUNTER STANLEY ELECTRONICS INC		
1813 CHURCH ST NASHVILLE		
TN	37203	615-321-0500
W STANLEY EMP 10 ENG 2 \$100-\$250K		

HUNTER TOOLS/EASCO HAND TOOLS INC		
3575 HEMPLAND RD LANCASTER		
PA	17604	717-285-4581
G GARD EMP 2400 ENG 35		
AL	B C Carroll Assoc Pelham	205-663-7020
CA	Louder & Assoc Walnut	714-598-9769
CA	Shuttuck & Hagen Mktg	
	Ben Lomond	408-745-0448
CO	Norris-Warren Assoc Denver	303-759-1676
FL	Electronic Reps Sarasota	813-351-4307
IL	RMP/McBride Corp Lombard	312-932-9090
KS	Lectro Reps Liberty	816-781-2522
KY	Mid-Central Sales Louisville	502-239-5614
MD	B & W Marketing Phoenix	301-592-8907
MA	Dwyer Assoc West Newbury	617-363-5466
MI	Harvey Sales Co Livonia	313-591-1975
MO	Lestronix St Louis Pk	612-926-8466
MN	Lectro Reps Liberty	816-781-2522
NY	Frank Tylnski Assoc Great Neck	516-466-9070
NY	Vern Claire & Assoc New Hartford	315-735-8122
NC	R C Bransford Inc Pinehurst	919-295-2185
OH	Thos Shelby Co St Marys	419-394-3377
OR	Jos Belusko Co Portland	503-222-4279
TX	P J Scanlon Dallas	214-231-4661
WA	Stewart & Renz Seattle	206-763-1140
FR	E D Magnus & Co Chicago Ill	312-334-1503

HUNTINGTON ELECTRIC INC		
BOX 366 550 CONDUIT HUNTINGTON		
IN	46750	219-356-0778
B EHINGER EMP 50 ENG 1 \$1,000-\$2,500K		
ADV	PG 412	

CA	Tracy Elctns Sales Upland	714-985-0423
FL	D J Ellis & Assoc Maitland	305-645-1101
IL	Rozner Sales Arlington Hts	312-577-0067
MI	Tri-Corn Assoc Burlington	617-272-8163
MI	R C Nordstrom & Co Lathrup	
	Village	313-559-7373
MN	Parq Sales St Louis Park	612-920-3643
MO	Rep-Tronics St Louis	314-956-9816
NY	Delta Tech Sales Willow Grove PA	215-657-7250
NY	Neptune Elctns Co Fort Lee NJ	201-461-2789
NY	M M Hare Co Syracuse	315-457-6859
PA	Pro-Mark Greensburg	412-832-3800
TX	Swearingen Sales Austin	512-339-8663

HUNTRON INSTRUMENTS INC		
15123 HWY 99 N LYNNWOOD		
WA	98037 TWX 152951	206-743-3171
J CROSSON EMP 40 ENG 2 \$2,500-\$5,000K		

DISTRIBUTORS		
CA	R E P Fremont	415-651-4131
CA	Mastermaster Los Angeles	213-685-4340
IL	Mastermaster Itaska	312-593-8650
MD	Wesco Baltimore	301-327-4300
MI	R S Electronics Livonia	313-525-1155
NJ	Integrated Engrg Westwood	201-664-6663
NY	Robert F Lamb Co Buffalo	716-874-4900
TX	Mastermaster Garland	214-271-5671
TX	Specialized Products Co Dallas	214-358-4663

HUNTSVILLE MICROSYSTEMS INC		
8200 S MEMORIAL PKWY BOX 12415		
AL	35802	205-881-6005
J HOLM		
CA	Reptek San Jose	408-947-0622
MA	Martindale Assoc North Reading	617-942-0514
NY	Marty Andrews Fayetteville	315-637-5291
TX	Dyna Marketing Austin	512-454-3114

HUPPERT CO K H 16850 S STATE ST		
SOUTH HOLLAND IL 60473		
EMP	64 ENG 3 \$1,000-\$2,500K	312-339-2020
FR	Micro Metallurgical Ltd	
	Richmond Hill	416-889-6231

HURLETRON INC 1938 E FAIRCHILD		
ST DANVILLE IL 61832		
TX	404361	217-446-6500
D BROWN EMP 100 ENG 30 \$2,500-\$5,000K		

HURST MFG CORP 1551 E BROADWAY		
PRINCETON IN 47670		
EMP	150 ENG 12	812-385-2564

AZ	Sierra Ind Eng Phoenix	602-272-0084
CA	Sierra Ind Eng San Jose	408-274-7041
CA	Sierra Ind Engr LA	213-624-3123
FL	Tech Rep Assoc St Petersburg	813-577-2779
IL	Jerry Golden Co Chicago	312-725-7870
MD	Hodgins Assoc Glen Arm	301-592-7047
MA	Hathaway Elect Lexington	617-861-7010
MI	Ray Van Ripper Sales Grand Rapids	616-452-0464
MN	Giefer Sales Co Mpls	612-884-2395
NJ	Hodgins Assoc Glen Arm	301-592-7047
NY	Murcan Sales Syracuse	315-437-0734
NY	Murcan Sales Rochester	716-586-4450
NC	Candor Co Garner	919-876-4999
OH	Jerry Kilroy Corp Chagrin Falls	216-543-3370
SC	Candor Co Myrtle Bch	803-448-8361
TX	C R Colvin Assoc Houston	713-961-1262
WA	Rep-West Seattle	206-283-8351

HUSTLER INC 1 NEW-TRONICS PL		
MINERAL WELLS TX 76067		
W	CORRIGAN EMP 50 ENG 1 OVER \$10,000K	817-325-1386
CA	Richard Hagen Assoc Huntington	
	Bch	714-846-1737
CO	Norris & Co Colorado Spgs	303-576-8697
IL	M Bernann Sales Skokie	312 675-3740
MN	Kodo Assoc Mpls	612-881-1255
MO	Lectro Reps Liberty	816-781-2522
TX	Buck Rogers & Assoc Mc Allen	512-682-0398
WA	McLaughlin Mktg Edmonds	206-743-1161
FR	Lectron Radio Sales Peterborough	
	ON	705-743-7000
FR	Roburn Agencies Inc New York NY	212-989-5939

HUTCHINSON TECHNOLOGY INC		
40 W HIGHLAND PARK HUTCHINSON		
MN	55350 TWX 910-578-3780	612-587-3797
B ANDERL EMP 1500 ENG 80		

HYBRID ELECTRONICS INC		
142 ADAMS ST NEWTON MA 02158		
D	KATES EMP 18 ENG 4 \$500-\$1,000K	617-527-2711
FL	M Kelsy Delray Beach	305-498-0577

HYBRID SOURCES INC 210		
ANDOVER ST WILMINGTON		
MA	01887	617-657-4775

HYBRID SYSTEMS CORP 22		
LINNEAL CIRCLE BILLERICA		
MA	01821 TWX 710-347-1575	617-667-8700
H DIAMOND EMP 250 ENG 25 OVER \$10,000K		
AL	Remco Huntsville	205-533-3763
AZ	Relcom Phoenix	602-893-1209
CA	Cain-White & Co Los Altos	415-948-6533
CA	Relcom Agoura Hills	818-991-4221
CO	Starsales Boulder	303-440-4193
CT	Meeco Cheshire	203-271-0026
FL	Delmac Sales Orlando	305-898-4688
GA	Remco Atlanta	404-447-6937
IL	MJ Petersen & Assoc Ltd	
	Arlington Hts	312-577-8200
KS	Midwest Tech Sales Merriam	913-236-8555
MD	Delmarva Severna Park	301-647-8007
MA	Meco, Inc Reading	617-944-6660
MI	Berberich Assoc Brighton	313-229-6218
MN	Northstar Comps Mpls	612-553-1888
MO	Midwest Tech Sales St Charles	314-441-1012
NJ	Thomas Assoc Bellmawr	609-933-2600
NY	ERA Inc Commack	516-543-0510
NY	D L Essi Assoc Rochester	716-328-3000
NC	Remco Raleigh	919-847-5079
OH	Berberich Assoc Dayton	513-433-0342
TX	Electronic Mktg Assoc Grapevine	817-488-6583
WI	Larsen Assoc Wauwatosa	414-258-0529
FR	Microscope Electronics	
	Mississauga	416-626-8221

HYBRICON CORP 410 GREAT RD		
LITTLETON MA 01460		
TX	710-347-0654	617-486-0311
D PALMER EMP 67 ENG 3 \$2,500-\$5,000K		
CA	Basic Systems Corp Santa Clara	408-727-1800
CA	Basic Systems Corp Inglewood	203-673-4300
IL	First Rep	312-530-2450
KS	DLE Electronics Wichita	316-744-2126
MD	Atlantic Technical Sales	
	Churchville	301-879-2236
MA	OEM Marketing & Sales	603-893-0009
NY	Crane & Egert Elmont	516-872-0800
OH	EQS Systems Cincinnati	216-729-2222
OR	Electronics Technical Sales	503-641-5180
PA	Lynbar Group Inc Huntingdon	
	Valley	215-947-3554
TX	System Technology	713-440-8340
VA	Scott Data Corp	703-765-7901
WA	Electronics Technical Sales	206-827-8086

HYBRILONICS INC BOX 217		
LASALLE STA NIAGARA FALLS		
NY	14304 TWX 9103330624	716-731-9080
F ILLIG EMP 20 ENG 4 \$500-\$1,000K		
HY-CAL ENGINEERING 9650		
TELSTAR AVE EL MONTE CA 91731		
TX	67-5548	818-444-4000
EMP 150 ENG 6 \$5,000-\$10,000K		
HYCOM INC 16841 ARMSTRONG AVE		
IRVINE CA 92714 TWX 678408		
A	LAWRENCE EMP 35 ENG 20 \$5,000-\$10,000K	714-261-6224
HYCOMP INC 165 CEDAR HILL ST		
MARLBOROUGH MA 01752		
TX	710-347-0385	617-485-6300
J MUNN EMP 65 ENG 10 \$2,500-\$5,000K		
AL	Masaro & Assoc Suite 672	205-882-0827
AZ	Sedco Sales Mesa	602-835-6281
CA	Calif Elctn Mkt Santa Ana	714-835-2702
CA	Leddy Assoc Mtn View	415-969-6313
CO	Butler Tech Sales Aurora	303-343-3787
CT	Dynamic Sales of New Eng	
	Collinsville	203-693-6567
FL	Cherith Sales Inc Clearwater	813-797-3004
GA	Magaro & Assoc Atlanta	404-451-8862
IL	T-Squared Assoc Palatine	312-991-2144
IN	Scott Electronics Ft Wayne	219-464-7865
KS	BC Elctns Kansas City	913-342-1211
MD	Walker-Houck Assoc Owings Mills	301-356-9500
MA	Dynamic Sales of New Eng	
	Burlington	617-272-5676
MI	Michisan Mktg & Sales Brighton	313-229-6218
MN	SAI Mktg Corp Minnetonka	612-935-0777
MO	BC Elctns St Louis	314-521-6683
NY	HLJ Comp Tech Lynbrook	916-599-2999
NY	Murcan Sales Corp Syracuse	315-437-0734
NC	Magaro & Assoc Greensboro	919-294-4783
OH	Scott Electronics Dayton	513-294-0539
PA	Scott Electronics Pittsburg	412-963-6116

TX	Dyna Marketing Houston	713-460-0314
VT	Dynamic Sales of New Eng	
	So Burlington	802-863-6665
VA	Walker-Houck Assoc Moneta	703-297-4496
WI	T-Squared Assoc White Water	414-473-6997

HYDE PARK ELECTRONICS INC		
4547 GATEWAY CIR DAYTON		
OH	45440 TWX 910-380-6049	513-435-2121
L TUCKER EMP 40 ENG 5 \$1,000-\$2,500K		
CA	Tecsel Hayward	415-786-2110
IL	Seversen Engrg Bloomingdale	312-529-0501
MD	Stan Schmidt Systems Brodecks	717-632-8585
MA	Spang Controls Co Stoneham	617-246-1497
NJ	E A Oliva Co Haledon	201-856-8774
PA	U S Controls Doylestown	215-345-4342

HYDROCAP CORP 975 NW 95 ST		
MIAMI FL 33150		
G	PERONI EMP 5 ENG 3 \$100-\$250K	305-696-2504

HYDRO PRODUCTS INC A TETRA		
TECH CO 11777 SORRENTO		
VALLEY RD SAN DIEGO CA 92121		
TX	910-322-1133	619-453-2345
EMP 300 ENG 50		
CA	Whitney Assoc San Diego	619-453-1181
MA	Electronic Sales Of NE Attleboro	617-222-4078
MO	Rush & West Assoc Ballwin	314-394-7271
TX	C A Richards Houston	713-531-7417
VA	Sutter & Co Vienna	703-938-0505

HY-GAIN DIV TELEX COMMUN INC		
9600 ALDRICH AVE S		
MINNEAPOLIS MN 55420		
TX	29-7053	612-884-4051
A CAPLAN EMP 1800 ENG 51 OVER \$10,000K		

HY-KON MFG CO BOX 3800 ALLIANCE		
OH 44601		
A	DUCHON	216-821-2320

HYPERION INDUSTRIES CORP		
134 COOLIDGE AVE WATERTOWN		
MA	02172 TWX 710-327-1868	617-926-0140
M FRIEDMAN EMP 200 ENG 15 \$5,000-\$10,000K		

HYPERTRONICS CORP 16 BRENT DR		
HUDSON MA 01749 TWX 94-0334		
E	DALRYMPLE EMP 90 ENG 4 \$5,000-\$10,000K	617-568-0451
AL	JHU Assoc Brownsboro	205-536-7455
AZ	Western Tech Sls Scottsdale	602-991-7305
CA	Jewett Co No Hollywood	818-789-8133
CA	Leddy Assoc Mtn View	909-693-6133
CO	Williams Assoc Commerce City	303-289-5647
CT	The Representatives Bethany	203-393-0244
FL	Design Marketing Orlando	305-291-8208
GA	Design Marketing Atlanta	404-457-5621
IL	C C Electronics Incls.	317-255-1508
KS	Midwest Tech - Meriam	913-236-8557
MA	The Representatives Wellesley	617-237-6476
MI	MAH St Paul	612-484-8200
NJ	G T Assoc Wayne	201-694-6040
NM	Williams Assoc Albuquerque	505-255-0622
NY	R D Sherman Inc Fayetteville	315-637-9821
NC	JHU Assoc Greensboro	919-852-9091
OH	Dolfuss-Root & Co Dayton	513-433-6776
PA	Tyler Griffin Co Paoli	215-647-1550
TX	Marathon Assoc Freeport	409-233-7026
UT	Williams Assoc SLC	801-532-7701
WA	ALF Inc Bellevue	206-455-4697

ICORE INTERNATIONAL INC
180 N WOLFE RD SUNNYVALE
CA 94086 TWX 910-339-9269
G GIBSON EMP 100 ENG 10 \$2,500-\$5,000K
GA L & D Inc Atlanta.....404-395-7079
MO Dy-Tronix Raytown.....816-356-6340
WA Norwest Co Inc Kirkland.....206-827-9562

IC PROBOTICS INC BOX 669
LONGWOOD FL 32750 TWX 56-4303.....305-339-8298
D SANDERSON EMP 12 ENG 2 \$250-\$500K

ICS ELECTRONICS CORP 2185
OLD OAKLAND RD SAN JOSE
CA 95131 TWX 971-9369.....408-263-4844
R PROSIN EMP 38 ENG 6 \$2,500-\$5,000K
AL Saber Assoc For AL-FL-GA & NC.....800-327-0853
AZ Scientific Devices Phoenix.....602-957-0401
CA Scientific Devices San Jose.....408-554-0455
CA Scientific Devices Huntington
Beach.....714-840-3501
CO Scientific Devices Bloomfield.....303-469-5145
CT Scientific Devices Mt Carmel.....203-248-9361
IL Berndt Assoc Chicago.....312-283-0713
IN Berndt Assoc Carmel.....317-844-0114
MD Eastern Instrumentation
Burtonville.....301-384-8500
MA Scientific Devices Waltham.....617-890-2252
MN Berndt Assoc Mnpls.....612-546-2021
NE Scientific Devices Portland.....503-292-6934
NJ Scientific Devices Teaneck.....201-837-1004
NM Scientific Devices Albuquerque.....505-293-3494
NY Naco Elect Corp N Syracuse.....315-699-2651
OH EOS Systems Chesterland.....216-729-2222
UT Scientific Devices West
Valley City.....801-966-0105
WA Scientific Devices Bellevue.....206-454-0900
WI Berndt Assoc Milwaukee.....414-544-6042

IC SENSORS INC 430 PERSIAN DR
SUNNYVALE CA 94086 TWX 350066.....408-745-1814
F PERRINO EMP 40 ENG 10 \$2,500-\$5,000K

ICS INC ELECTRO-PAC 520
INTERSTATE RD ADDISON
IL 60101 TWX 910-991-5945.....312-543-6200
S EARNST EMP 40 ENG 3 \$1,000-\$2,500K
AL C S Phillips Co Birmingham.....205-870-0640
IL Ropek-Cahill & Vogt Inc Chicago.....312-631-0070
NJ Lambert Assoc Franklin Lakes.....201-891-7154
NM Environmental Equip Reps
Albuquerque.....505-265-7148
TX Gettys-Eads-Adair Houston.....713-781-3005

DISTRIBUTORS
CO Colorado Busn Computer
Sys Denver.....303-759-4589
IL Application Engineering
Wood Dale.....312-595-1080

IDALEE ELECTRONICS CORP
891 FULTON ST VALLEY STREAM
NY 11580.....516-825-8955
R GUSS EMP 5 ENG 2 \$1,000-\$2,500K

IDEAL INDUSTRIES INC 5103
BECKER PL SYCAMORE IL 60178
TWX 910-639-0613.....815-895-5181
R COLBY EMP 500 ENG 13

IDEAL TAPE INC DIV CHELSEA
INDUSTRIES 1400 MIDDLESEX
ST BOX 828 LOWELL MA 01853
TWX 94-7420.....617-458-6833
G WERNER EMP 225 ENG 7

DISTRIBUTORS
CA E T Products Laguna Hills.....714-830-9900
MO Missouri Thistle High Ridge.....314-227-6488

IDEC IZUMI CORP 13-9 NISHINAKAJIMA
5-CHOME YODOGAWA-KU OSAKA
JAPAN TWX 81-6-523-3710.....81-6-2005530
S TAKAGI EMP 1013 ENG 200 OVER \$10,000K

IDEC SYSTEMS & CONTROLS CORP
3050 TASMAN DR SANTA CLARA
CA 95050 TWX 910-339-9383.....408-988-7500
J YOUNG EMP 60 ENG 3 \$5,000-\$10,000K
AK Square One Co Anchorage.....907-248-5689
GA BRYCO Grayson.....404-466-2997
KS TMW Co Lenexa.....913-469-5885
MO TMW Co St Louis.....314-664-4005
NY Wm Stamp Co Pittsford.....716-381-2525
SC Heritage Sales Assoc, Taylor.....803-292-1723
TN Tubbs Agency Knoxville.....615-577-0689
TX SW Mktg Assoc Dallas.....214-341-8631
UT TMW SLT.....801-487-7676
VA Dunnington & Assoc Midlothian.....804-794-4804
WA SPS Electronics Redmond.....206-323-4140
WV Brown-Yates Carnegie, PA.....412-279-1101
WI Bu-Nell Engrg Waukesha.....414-784-0994

IDEN INDUSTRIES INC 50
DIVISION AV BOX 230 MILLINGTON
NJ 07946.....201-647-2734
R NIGRO EMP 26 ENG 3 \$1,000-\$2,500K

IEC ELECTRONICS CORP 105
NORTON ST NEWARK NY 14513
TWX 510-250-2515.....315-331-7742
S HOTCHKISS EMP 650 ENG 11 OVER \$10,000K
MA Wood Sales.....617-444-1601
NY HC Johnson Agencies.....716-586-0777

IEE INDUSTRIAL ELECTRONIC
ENGINEERS INC 7740 LEMONA AVE
VAN NUYS CA 91405
TWX 910-495-1707.....818-787-0311
J HART EMP 450 ENG 40 OVER \$10,000K

IE SYSTEMS INC BOX 359-112
MAIN ST NEWMARKET NH 03857
TWX 4994016.....603-659-5891
F FILION EMP 20 \$1,000-\$2,500K

IET LABS INC 534 MAIN ST
WESTBURY NY 11590.....516-334-5959
S SHEENA EMP 18 ENG 3
ADV PG 152

IFD TECHNOLOGY 15519 DIANA LA
HOUSTON TX 77062.....713-488-0777
B BAIRD EMP 2 ENG 1 \$100-\$250K

IG TECHNOLOGIES INC 405 ELM ST
VALPARAISO IN 46383
TWX 910-690-4890.....219-462-3131
C REPENN EMP 330 ENG 12
CA IG Technologies Inc San Jose.....408-554-1188
IL IG Technologies Inc Lombard.....312-629-3535
MA IG Technologies Inc Hingham.....617-749-2003
NJ IG Technologies Inc Emerson.....201-262-6022
OH IG Technologies Inc Cleveland.....216-289-4600

DISTRIBUTORS
CA Permag Pacific Los Angeles.....213-594-6515
CA Permag Sierra Sunnyvale.....408-738-1080
GA Permag Dixie Corp Norcross.....404-351-0994
IL Permag Central Elk Grove Vlg.....312-956-1140
MA Permag Northeast Billerica.....617-273-2890
MN Permag Minnesota Eden Prairie.....612-934-4635
NY Permag Corp Hicksville.....516-822-3311
OH Permag Magnetics Corp Toledo.....419-385-4610
TX Permag Southwest Richardson.....214-699-1121

IKEGAMI ELECTRONICS USA INC
37 BROOK AVE MAYWOOD
NJ 07067 TWX 219034.....201-368-9171
D MASON EMP 115 ENG 25 OVER \$10,000K

ILC DATA DEVICE CORP 105
WILBUR PL BOHEMIA NY 11716
TWX 510-228-7324.....516-567-5600
J SHEAHAN EMP 850 ENG 70 OVER \$10,000K
ADV PG 457

AL Montgomery Marketing Huntsville.....205-830-0498
AZ Fred Board Assoc Scottsdale.....602-994-9388
CA ILC Data Device Woodland Hills.....818-992-1772
CA ILC Data Device Santa Clara.....408-244-0831
CO WesTenn Sales Englewood.....303-798-0945
CT Dynamic Sales of NE Canton Ctr.....203-693-6567
FL Perrott Assoc Orlando.....305-298-7748
GA Montgomery Marketing Norcross.....404-447-6124
IL Electron Mktg Corp Des Plaines.....312-298-3230
IN Giesting & Assoc Carmel.....317-844-5222
KS Dytec/South Lenexa.....913-888-0215
MA Dynamic Sales of NE Burlington.....617-272-5676
MI Giesting & Assoc Farmington.....313-478-8106
MN Comprehensive Tech Sales Mnpls.....612-888-7011
MO DYTEC/South Maryland Hts.....314-569-2990
NJ ILC Data Device Corp Totowa.....201-785-1734
NM Quatra Assoc Albuquerque.....505-821-1455
NY Tri Tech Elctns Fayetteville.....315-446-2881
NY Tri-Tech Electronics Fishkill.....914-897-5611
NC Montgomery Marketing Cary.....919-467-6319
OH Giesting & Assoc Cincinnati.....513-385-1105
OK B-P Sales Tulsa.....918-744-9964
OR Venture Electronics Forest Grove.....503-357-5112
PA Bobar Instruments New Kensington.....412-339-3565
TX B-P Sales Austin.....512-346-9186
VT Dynamic Sales of NE Burlington.....802-863-6665
VA ILC Data Device Vienna.....703-893-7989
WA Venture Elect Bellevue.....206-454-4594
WI J M Sales Co Milwaukee.....414-546-0040
FR Repco Eng Co Ltd Pte Claire PQ.....514-694-1877

ILLINOIS CAPACITOR INC
3757 W TOUHY AVE LINCOLNWOOD
IL 60645 TWX 72-4361.....312-675-1760
EMP 35 OVER \$10,000K
ADV PGS 69,70

AL Electro-Mech Sales & Eng
Huntsville.....205-533-2101
AZ Howe & Howe Sales Phoenix.....602-264-7971
CA Mollard Mktg Palo Alto.....415-961-0456
CA Illinois Capacitor Woodland
Hills.....800-323-2652
CO Elcom Inc Denver.....303-337-3630
GA Electro-Mech Sales & Eng Atlanta.....404-447-6478
IN J & W Sales Indpls.....317-842-3470
MA Technology Prods Grp Brookline.....617-731-0858
MI Tritsch Sales Farmington Hills.....313-553-7126
MN Highland Elect Sales Golden
Valley.....612-545-2123
MS Doby Assoc Jackson.....601-981-1138
MO Jim Moore & Assoc Hazelwood.....314-731-2240
MO T/F Assoc KC.....816-741-5858
NJ F R Sylvester Assoc Springfield.....201-376-3324
NY Advanced Components North
Syracuse.....315-699-2671
NY Advanced Components Rochester.....716-889-1429
NY Advanced Components Rochester.....716-544-7017
NY Advanced Components Endicott.....315-853-6438
NY Advanced Components Endicott.....607-785-3191
NC Electro-Mech Sales & Eng Raleigh.....919-851-8165
OH Rockford Controls OH OH.....216-731-5250
OH Rockford Controls OH OH.....413-898-5452
OH Rockford Controls OH
Reynoldsburg.....614-868-5577
PA Bresson Assoc Narberth.....312-675-1760
TN Electro-Mech Sales & Eng
Jonesboro.....615-753-2964
TX EPEC Inc El Paso.....915-855-3900
TX Mil-Rep Assoc Richardson.....214-644-6731
TX Mil-Rep Assoc Houston.....713-444-2557
TX EPEC Inc Austin.....512-459-8602
UT Elcom Inc SLC.....801-485-7415
WI Erdman Sales Milwaukee.....414-281-1330
FR Designtronics Downsview ON.....416-747-1171

DISTRIBUTORS
AL RM Elect Co Huntsville.....205-852-1557
AZ Arizona Components Phoenix.....602-269-5658
AR Lavender Elect Texarkana.....501-773-4663
CA A to Z Elect Anaheim.....714-634-3620
CA RM Elect Santa Clara.....408-496-0411
CA Myco/Vickers Elect Canoga Park.....213-340-2023
CA Neumann Elect San Diego.....619-695-3003
CA Projections Unltd Santa Ana.....714-261-2323
CA California Capacitor Santa Clara.....408-980-8499
CO Industrial Elect Englewood.....303-694-9444
CT Cobra Components Norwalk.....203-847-6422
IL Classic Comps Sply Northbrook.....312-272-9650
IL RM Elect Elk Grove Vlg.....312-364-6822
IN Altex Elect Carmel.....317-848-1323
IN RM Elect Indpls.....317-291-7171
IA Bergquist Co Cedar Rapids.....319-366-871
MD General Radio Supply Columbia.....301-381-6163
MA Semtex Ind Corp Woburn.....617-935-5150
MA Lorcor Wakefield.....617-246-1903
MA ADD Elect Holliston.....617-429-7949
MI Semiconductor Reliability
Detroit.....313-695-8550
MI Calder Elect Grand Rapids.....616-698-7400
MN Bergquist Co Mnpls.....612-835-2322
MN Northern Inc Mnpls.....612-944-1167
MO Finnigan Elect St Charles.....314-946-6201
MO Walters Ind Sply KC.....816-531-7019
NJ General Radio Supply Camden.....609-964-8560
NJ Varitech E Brunswick.....201-245-5853
NJ Lectron Industries Roselle.....716-887-2890
NY Genesee Ind Elect Buffalo.....716-875-5537
NY Summit Dist Buffalo.....716-587-2890
NY Masline Elect Rochester.....315-437-0300
NY ADD Elect East Syracuse.....315-437-0300
NY ADD Elect Victor.....716-924-4760
NY Help Elect Johnson City.....607-729-3528
OH Akron Elect Sply Akron.....216-762-8818
OK Altair Tulsa.....918-252-5781
TX Henry Elect Channelview.....713-452-4451
TX Altair Richardson.....214-231-5166
TX Altair Austin.....512-837-4490
TX Altair Houston.....713-462-3023
WI Badger Capacitor Milwaukee.....414-281-1330
WI Classic Comps New Berlin.....414-786-5300
FR Target Elect Concord ON.....416-669-9002

ILLINOIS LOCK CO 301 W HINTZ RD
WHEELING IL 60090.....312-537-1800

IMAGE GRAPHICS INC 107
ARDMORE ST FAIRFIELD CT 06430.....203-259-1394
T PELFREY EMP 35 ENG 23 \$5,000-\$10,000K

IMAGEN CORP 2650 SAN TOMAS EXPWY
SANTA CLARA CA 95052
TWX 171596.....408-986-9400
D PERLMUTTER EMP 150 ENG 80
CA Pacific Data Group Sunnyvale.....408-732-4770
IL Sector Engineering Elmhurst.....312-530-7855
MD EMA Rockville.....301-744-7700
MA J & J Assoc Winchester.....617-729-5777
NM BFA Corp Albuquerque.....505-292-1212
NY SDM Representatives Lodi NJ.....201-368-0123
TX Microlog Corp Richardson.....214-644-5010
FR Ahearne & Soper Ontario Can.....416-675-3999

IMAGING TECHNOLOGY INC
600 W CUMMINGS PK WOBURN
MA 01801 TWX 948263.....617-938-8444
R MASSA EMP 100 ENG 25 OVER \$10,000K
CA Imaging Technology Santa Clara.....408-748-9311
CA Imaging Technology Huntington
Bech.....714-960-7676
CO RML Assoc Denver.....303-757-6655
FL Star Tec Melbourne.....305-727-2247
GA Magaro & Assoc Atlanta.....404-451-8862
IL Ad-Tech Inc Park Ridge.....312-692-7326
IN IHRIG Assoc Indpls.....317-783-7630
KS Panateck Tech Sales Assoc
Shawnee Mission.....913-362-3349
MN FAVCO Inc Birmingham.....313-644-0173
MN Mark Co Mnpls.....612-933-3007
MN ASR New Mexico Albuquerque.....505-243-8454
NY EF Sales Caledonia.....716-538-4754
NY Crane & Egert Corp Elmont.....516-872-0080
OH J C Hofstetter Co Medina.....216-241-4880
TN DPM Inc Bellevue.....206-747-3309
TX Data Systems Plano.....214-669-0303

IMB ELECTRONIC PRODUCTS INC
15401 S CARMENITA RD
SANTA FE SPRINGS CA 90670.....714-523-2110
J KURTH EMP 200 ENG 2
ADV PG 70
AZ Delta Electronics Sls Tempe.....602-252-4222
CA SMI Rep Group Santa Clara.....408-986-1610
CA CERCO San Diego.....619-450-1754
CO Dynatech Englewood.....303-773-2830
CT A & M Electronics Needham.....617-444-8176
IL Howard Benjamin Assoc Northbrook.....312-272-2900
MN PWC Inc Edina.....612-831-5999
NJ Sonny Simberloff Assoc Union.....201-687-6833
TX Robt R Thomas Co Addison.....214-233-8235
WA EMG Redmond.....206-882-0962

IMC MAGNETICS CORP /CORP
HEADQUARTERS 100 JERICHO
QUADRANGLE JERICHO NY 11753
TWX 510-221-2126.....516-938-0800
R KINTNER EMP 1300
ADV PGS 42,43,53,Back Cover
AL Beacon Electronics Huntsville.....205-881-5031
AZ Electronic Devel & Sales Tempe.....602-438-1547
CA El-Corn Inc Cerritos.....213-404-2961
CA Recht Assoc Los Altos.....415-964-6321
CA Viking Sales Co Panorama City.....818-997-3933
CT Thorson Rocky Mtn Englewood.....303-779-0666
CO Gerber Sply Corp Middleton.....203-347-3000
CT Winslow Elec Co Essex.....203-767-8229

FL	HAI Electronics Coral Springs	305-752-7520
GA	Beacon Electronics Atlanta	404-256-9640
IL	Industrial Representatives Skothe	312-647-7755
MD	Fromm Co Villa Pk	312-833-2282
MA	Beacon North Mt Airy	800-336-3747
MA	Gerber Sls Corp Monson	413-267-5051
MA	Gerber Sls Corp Waltham	617-890-3324
MA	CRP Sales Lowell	617-458-9788
MA	Holmgren Assoc Mpls	617-786-7641
MA	Harris-Hanson Co Grandview	816-766-3200
MA	Harris-Hanson Co St Louis	314-432-3611
MA	Mesa Technical Assoc Haddonfield	609-429-9531
MA	Trionics Assoc Great Neck	516-466-2303
MA	Electra Sales Corp Syracuse	315-463-1248
MA	Electra Sales Corp Rochester	716-427-7860
MA	H C Johnson Agencies Rochester	716-586-0777
MA	Beacon Electronics Raleigh	919-787-0330
MA	Electrical Systems Co Dayton	513-434-9822
MA	Electrical Systems Co Toledo	419-475-0122
MA	Electrical Systems Co Worthington	614-761-2688
MA	Kruvand Assoc Dallas	214-437-3355
MA	Kruvand Assoc Austin	512-458-9204
MA	Kruvand Assoc Houston	713-780-9710
MA	Thorson Rocky Mtn West Valley City	801-973-7969
MA	Beacon North Sterling	703-478-2480
MA	E P Knopf Co Mercer Island	206-232-4525
MA	Industrial Reps Milwaukee	414-259-0965
MA	Jorge Donato Assoc San Juan PR	809-720-1300

IMC MAGNETICS CORP EASTERN DIV
570 MAIN ST WESTBURY
NY 11590 TWX 510-222-4469 516-334-7070
A CHILLEM
ADV PGS 43, Back Cover

For Sales Offices See IMC Magnetics Corp/Corp
Headquarters Listings

IMC MAGNETICS CORP FLORIDA DIV
14025 NW 60 AVE MIAMI LAKES
FL 33014 305-822-2558
ADV PGS 353, Back Cover

IMC/HANSEN MFG CO INC SUB BOX 23
PRINCETON IN 47670
TWX 27-8458 812-385-3415
G GILBERT EMP 331 ENG 7
ADV PG Back Cover

IMC MAGNETICS CORP NEW HAMPSHIRE
DIV RTE 16B ROCHESTER
NH 03867 TWX 510-297-4466 603-332-5300
W BEAULIEU
ADV PGS 42, Back Cover

DISTRIBUTORS

AL	CDI Huntsville	205-883-7501
AL	Bell Industries Tempe	602-966-7800
AZ	Southwest Sales Tucson	602-628-1613
AZ	Sterling Electronics Phoenix	602-268-2121
AR	CDI Little Rock	501-227-6278
CA	El-Com Cerritos	213-404-2961
CA	Bell Industries Gardena	213-515-1800
CA	Logan Elect San Carlos	415-594-0700
CA	Bell Industries Sunnyvale	408-734-8570
CA	Bell Industries San Diego	714-268-1277
CA	Newark Elect Inglewood	213-871-7387
CA	Graham Electronics Roseville	916-969-3100
CA	Bell Industries Garden Grove	714-220-0681
CA	Bell Industries Thousand Oaks	805-499-6821
CA	Bell Industries Wheatridge	303-424-1985
CO	Denver Winton Arvada	303-431-7161
CO	Newark Denver Elect Denver	303-757-3351
CT	J V Elect E Haven	203-489-2321
CT	Sager Elect Sply Wallingford	203-265-4600
CT	Sterling Wallingford	203-265-9535
FL	CDI Ft Lauderdale	305-971-4950
FL	Hammond Ft Lauderdale	305-973-7131
FL	Hammond Orlando	305-849-6060
GA	Bell Indus Largo	813-541-4434
GA	C D I Norcross	404-441-3320
GA	Trans-Southern Elect Atlanta	404-451-4425
IL	Bell Industries Elk Grove Vlg	312-640-1910
IL	Newark Elect Chicago	312-638-4411
IN	Classic Components Northbrook	312-272-9650
IN	Altex Electronics Carmel	317-848-1323
IN	Bell Indus Ft Wayne	219-423-3422
IN	Bell Indus Indpls	317-634-8202
IN	Bell Indus Lafayette	317-423-5564
IN	Bell Industries Cedar Rapids	319-395-0730
KS	RSC Electronics Wichita	316-267-5213
MA	Pyttroic Savage	301-792-0780
MD	Lionex Corp Columbia	301-964-0040
MA	Sager Elect Sply Hingham	617-749-6700
MA	Lionex Corp Wilmington	617-657-5170
MA	Gerber Elect Norwood	617-769-6000
MA	Sterling Elect Woburn	617-938-6200
MA	Electro Sales Somerville	617-666-0500
MA	Wedemeyer Elect Sply Adrian	517-263-2925
MA	Wedemeyer Elect Sply Ann Arbor	313-665-8611
MA	Wedemeyer Elect Sply Lansing	517-484-9009
MA	Bell Indus Ann Arbor	313-971-9093
MA	Aero-Space-Computer Mpls	612-884-4725
MA	Olive Electronics St Louis	314-426-4500
MA	Mid Atlantic Bellmawr	609-931-5303
MA	Lionex Corp Fairfield	201-227-7960
MA	Sterling Elect So Plainfield	201-769-7000
MA	Bell Industries Albq	505-292-2700
MA	International Elect Albq	505-345-8127
MA	Sterling Elect Albq	505-884-1900
MA	Lionex Hauppauge	516-273-1660
MA	QAR Industrial Mt Vernon	914-699-2224
MA	Progress Electronics Plainview	516-433-1700
MA	Summit Buffalo	716-884-3450
MA	Summit Rochester	716-334-8110
MA	A S I Electronics Endwell	607-754-3823
MA	Designtronics New Hyde Pk	516-328-3300
MA	Hammond Elect Greensboro	919-275-6391

NC	CDI Raleigh	919-834-9465
OH	Stolts Friedman Dayton	513-298-5555
OH	Bell Industries Dayton	513-434-8231
OH	Bell Indus Cincinnati	513-772-1661
OH	Wedemeyer Elect Sply Columbus	614-436-9600
OR	Sterling Elect Tulsa	918-663-2410
PA	Bell Industries Lake Oswego	503-241-4115
PA	Advacom Inc McKean	814-476-7774
PA	Pyttroic Montgomeryville	215-463-2851
PA	eff Elect Braddock	212-351-5000
PA	Barbey Elect Reading	215-376-6116
PA	Ionex Corp Horsham	215-443-5150
RI	Wm Dandrea & Co Providence	401-861-2800
SC	Hammond Elect Greenville	803-233-4121
TN	Electra Dist Nashville	615-329-3971
TN	Bell Indus Nashville	615-242-2682
TX	Sterling Elect Dallas	915-588-3406
TX	International Elect El Paso	713-623-6600
TX	Sterling Elect Houston	800-225-9618
TX	Component Dist Dallas	512-936-1341
TX	Sterling Electronics Austin	512-834-1900
TX	Kent Elect Austin	713-780-7770
TX	Kent Elect Houston	713-669-2600
TX	Kent Elect Richardson	214-243-1600
UT	Bell Industries SLC	801-486-3371
UT	Standard Supply SLC	804-226-2190
VA	Sterling Electronics Richmond	206-747-1515
WA	Bell Industries Bellevue	206-232-4525
WA	Mechatronics Mercer Island	206-232-4525
WA	Bell Industries Waukesha	414-786-5300
WI	Classic Components New Berlin	414-786-5300
WI	Marsh Elect Milwaukee	414-694-7710
FR	Future Electronics Pie Claire PQ	514-694-7710
FR	Wackid Radio Ottawa ON	613-728-1821
FR	Westburne Ind Entrps Ltd Downsview ON	416-635-2950
FR	Electronic Wholesalers Ltd Ottawa ON	613-746-4413
FR	Electronic Wholesalers Ltd Montreal PQ	514-769-8851

IMC MAGNETICS CORP THERMAL
PRODUCTS CORP 100 JERICHO
QUADRANGLE JERICHO NY 11753
TWX 510-221-2126 516-938-0800
R LOVOCHKIN
ADV PG Back Cover

IMC MAGNETICS CORP UNIVERSAL
MAGNETICS CORP SUB 9601
MAISON AVE CHATSWORTH CA 91311
TWX 750157 818-341-3355
ADV PG Back Cover

IMC MAGNETICS CORP WESTERN DIV
12627 HIDDEN CREEK WAY
CERRITOS CA 90701
TWX 910-583-1355 213-926-0927
J GUTE
ADV PG Back Cover
For Sales Offices See IMC Magnetics Corp/Corp
Headquarters Listings

IMPEX DIV NATIONAL LOCK CORP
905 LOUISE AVE BOX 625
CRAWFORDSVILLE IN 47933 317-362-0800
EMP 175 ENG 6 OVER 10,000K
IN W A Dental Co Indpls 317-253-0336
KY Jim Wright Co Buckner 502-222-5757
MA Nofsker Comp Prod Sherborn 617-653-2208
WI Glen Giese & Assoc Mequon 414-241-3700

IMTRONICS INDUSTRIES LTD
11930 31 CT N ST PETERSBURG
FL 33702 TWX 568027 813-577-9010
S COHEN EMP 7 ENG 1 \$1,000-\$2,500K

INCONIX CORP 106 LONGWATER DR
NORWELL MA 02060 617-655-1170
R PARKER EMP 50 ENG 10 \$2,500-\$5,000K

INDAK MFG CO 1915 TECHNY RD
NORTHBROOK IL 60062 312-272-0343
A COBB EMP 150 ENG 6 \$5,000-\$10,000K

INDIKON CORP 26 NEW ST
CAMBRIDGE MA 02138
TWX 92-1464 617-547-3604
A FINN
IN Loren Green Assoc Indpls 317-293-9827

INDIUM CORP OF AMERICA
1676 LINCOLN AVE UTICA
NY 13502 TWX 937363 315-797-1630
EMP 100 ENG 5

INDUCTIVE PRODUCTS INC
11733 MARKON DR GARDEN GROVE
CA 92641 TWX 910-596-1316 714-891-2572
T SCANLON EMP 10 \$1,000-\$2,500K
ADV PGS 97, 149, 227, 301, Green
Pages/Footstrips
CA LE Rep 408-458-0667
CO C-Tech 303-395-2025

INDUCTOR SUPPLY INC. 15206
TRANSISTOR LANE HUNTINGTON
BEACH CA 92649 TWX 4979775 714-891-4524
C VAN DER MEULEN EMP 22
ADV PG 226

AZ	EDP & Assoc Scottsdale	602-991-6119
CA	Inductor Supply Inc	213-594-8658
CA	Inductor Supply Inc USA Toll Free	800-854-1881
CA	Inductor Supply Inc USA Toll Free	800-472-8421
CA	Rep House Los Alamitos	714-826-1200
IL	Heth Inc Bannockburn	312-295-8440
MO	Allied Component Reps Burnsville	612-435-7876
MO	Microtronics Inc St Charles	314-946-8500

NJ	Comptran Harrington Park	201-768-2060
NY	Comptran East Northport	516-368-5855
OR	SPS Electronics Portland	503-297-6919
PA	Eastern Scientific Chalfont	215-362-6080
SC	Quintek Greenville	803-288-3555
TX	W Pat Fraile Bedford	817-267-3577
VA	Eastern Scientific Vienna	703-281-0778
WA	SPS Electronics Redmond	206-323-4140

INDUS-TOOL CORP 730 W LAKE ST
CHICAGO IL 60606 312-648-2191
ADV PG 357

INDUSTRIAL COMPUTER DESIGNS INC
31264 LA BAYA DR WESTLAKE
VILLAGE CA 91362 818-889-3179
D KNIGHT EMP 39 ENG 11 \$1,000-\$2,500K
CA Cal Tech Pro Inc Riverside 714-682-8506
MA Scheinfein C G A 617-944-2304
P Wyocone Instrumentation Glenside 215-272-6500
WA McLaren Inc Bellevue 206-454-3400

DISTRIBUTORS

AZ	S-100/Div 696 Corp Scottsdale	800-528-3138
NY	Chief Electronics Poughkeepsie	914-471-1300

INDUSTRIAL CONTROL CO 3100
PINEDA AVE ROCKLEDGE FL 32955 305-259-7105
I NOBILIO EMP 12 ENG 3

INDUSTRIAL DEVICES INC
7 HUDSON AVE EDGEWATER
NJ 07020 TWX 12-7459 201-224-4700
P FLYNN EMP 230 ENG 5 \$5,000-\$10,000K
AL Electronic Mktg Assoc Huntsville 205-837-7363
AZ Bill Earl Assoc Scottsdale 602-994-3813
CA Universal Components Inc LA 213-641-4255
CA Westech Sales Mt View 515-961-1422
CO Harthun Assoc Englewood 703-792-5050
FL Southern Elctn Mktg Casselberry 305-831-2815
GA Electronic Mktg Assoc Atlanta 404-448-1212
IL K D Engle Co Chicago 312-539-1820
IN Electronic Mktg Consultants
Indpls 317-253-1668

KS	Lowell-Kangas Assoc Shawnee	913-631-3515
MA	ESA Inc Towson	301-321-6008
MD	Anchor Engrg Corp Newton Upper Falls	617-964-6205
MI	Willard Spenser Co Oak Park	313-967-0808
MN	Electronic Comp Sales Mpls	612-933-2594
MO	Lowell-Kangas Assoc St Louis	314-921-4050
NJ	Dyno-Rep Inc Manville	201-685-1035
NJ	Apex Assoc Rochester	716-254-6050
NC	Electronic Mktg Assoc Raleigh	919-847-8800
OH	Marlow Assoc Cleveland	616-991-6500
OR	Earl & Brown Co Portland	503-245-2283
SC	Electronic Mktg Assoc Greenville	803-233-4637
TX	R F Kimball Co Richardson	214-231-3447
WA	Earl & Brown Co Seattle	206-284-1121
FR	Expert Technicians Jericho NY	516-931-3434
FR	Len Finkler & Co Downsview ON	416-961-1422

INDUSTRIAL DRIVES, KOLLMORGEN
201 ROCK RD RADFORD VA 24141
TWX 710-875-3743 703-639-2495
S TAKO EMP 290 ENG 50

AL	Technology Mktg Huntsville	205-883-7893
AZ	Thor Engineering Phoenix	602-437-1463
CA	Thorson Co Mt View	415-964-3300
CA	Thorson Co Signal Hill San Diego	213-595-0361
CT	R H Whitehead Jr Assoc Meriden	203-634-1280
FL	Technology Mktg Assoc Orlando	305-857-3760
GA	Technology Mktg Assoc Atlanta	404-257-0374
IL	Industrial Drives Div Schaumburg	312-893-8886
MA	R H Whitehead Jr Assoc Wakefield	617-246-5155
MI	Electro-Matic Prods Farmington Hills	313-478-1182

MN	John J Exon Co St Paul	612-636-5533
MO	Cadon Technical Sales St Louis	314-645-8670
NJ	S Howard Lagerfeld & Assoc Wayne	201-790-1714
NY	A & D Devices E Rochester	716-385-2778
NC	Industrial Drives Div Matthews	704-821-9875
OH	Jerry Kilroy Corp Kettering	513-294-1235
OR	Thorson Co Northwest Beaverton	503-644-5900
PA	Homer Smith Engrd Prods Media	215-543-2434
TX	P J Scanlon Co Dallas	214-231-4661
WA	Thorson Co Northwest Bellevue	206-455-9180
WI	Industrial Drives Div Wauwatosa	414-475-5985

INDUSTRIAL ELECTRONIC HARDWARE
CORP 109 PRINCE ST NEW YORK
NY 10012 TWX 710-581-4338 212-677-1881
L ROBERTS EMP 510 ENG 12 OVER \$10,000K

INDUSTRIAL INVENTIONS INC
RD 2 463 US RTE 1 MONMOUTH
JUNCTION NJ 08852 201-329-6000
H STAR EMP 4 ENG 2 \$250-\$500K

INDUSTRIAL MICRO-SYSTEMS INC
189 HITCHCOCK RD SOUTHLINGTON
CT 06489 203-628-4844
B TZAMZAN EMP 50 ENG 15 \$2,500-\$5,000K

INDUSTRIAL MICROWAVE CORP
520 MARTIN PL SCOTCH PLAINS
NJ 07076 TWX 710-997-9512 201-322-4411
C TARBELL EMP 104 ENG 5

NJ	L Gallagher Assoc Rockaway	201-625-5782
OH	W J Janszen Jr Cincinnati	513-922-5255

INDUSTRIAL/MIDWEC CAPACITOR CORP
4902 TOLLVIEW DR ROLLING
MEADOWS IL 60008 312-577-0120
TWX 910-687-3325
J OSTROWSKI EMP 125 ENG 10 \$5,000-\$10,000K
PA Sunday-O'Brien Haddonfield 609-429-4013

INDUSTRIAL PROGRAMMING INC		
100 JERICHO QUADRANGLE		
JERICHO NY 11753	516-938-6600	
B MUSHINSKY EMP 14 \$1,000-\$2,500K		
MN Micro Resources Inc Edina	612-830-1454	
INDUSTRIAL TEST EQUIPMENT		
POWERTRON 21 YENNICOOK AVE.		
PORT WASHINGTON NY 11050	516-883-1700	
EMP 50 ENG 3		
INDUSTRIAL TIMER CO HAYDON		
SWITCH INST INC 1500		
MERIDEN RD BOX 3329 WATERBURY		
CT 06705 TWX 9-9219	203-753-2487	
B CORBUTT EMP 50 ENG 2		
DE Ind Mktg Specialists Abington	215-659-0444	
FL EAB Inc Orlando	305-898-7444	
IL Bu-Nell Eng Co Palatine	312-358-2300	
MA RJC Assoc Waltham	617-899-5858	
NJ Ramapo Assoc Wayne	201-839-6767	
NC Jake Rudisill Assoc Charlotte	704-377-6901	
TX Forner Sales Co Dallas	214-241-2169	
WV Russell F Clark Co Pittsburg	412-242-9500	
FR Veeder-Root of Can Ltd		
Toronto ON	416-239-3094	

DISTRIBUTORS

AZ M G Elec & Equip Birmingham	205-328-4525
AL Systems Control & Sales Phoenix	609-997-6963
AR Carlton-Bates Co Little Rock	501-562-9100
CA Steven Eng S San Fran	415-583-5868
CT Allied Elec Sply Hartford	203-527-6405
FL Electro Stand Labs Miami	305-527-5575
FL Brownell Electro Orlando	305-843-6770
IL Newark Elect Chicago	312-269-4411
IL Revere Elec Sply Chicago	312-738-3636
IN Graham Elect Ft Wayne	219-423-3422
KY E & H Elec Sply Louisville	502-587-0991
LA Ralph's Elect Lafayette	318-234-4507
MA T F Cushing Springfield	413-788-7341
MI Great Lakes Elec Augusta	616-731-4156
NJ Relay Specialties Fair Lawn	201-797-3313
NJ Fromm Elec Sply Piscataway	201-981-0400
NM K/S Elec Co Hobbs	505-393-3114
NY Summit Dist Buffalo	716-884-3450
NY Maylan Stopwatch New York	212-391-9150
OH John A Becker Co Dayton	513-226-1341
PA Seaway Elec Sply Erie	814-455-1304
PA Sunshine Scien Inst Phila	215-673-5600
RI Wm Dandreta & Co Providence	401-861-2800
SC Hammond Elect Greenville	803-233-4121
TX Wofford Elec Parts Houston	713-644-1838
VA Virginia Radio Sply	
Charlottesville	804-296-4184
WA C B Parsons Co Seattle	206-762-7373
WI C L Thompson Co Milw	414-771-9020

INDUSTRIAL VISION SYSTEMS INC		
452 CHELMSFORD ST LOWELL		
MA 01851	617-459-9000	

INERTIAL MOTORS CORP 280		
N BROAD ST DOYLESTOWN		
PA 18901 TWX 83-1633	215-345-1010	
L CLARKIN EMP 20 ENG 2 \$1,000-\$2,500K		

INFICON LEYBOLD-HERAEUS INC		
6500 FLY RD EAST SYRACUSE		
NY 13057 TWX 710-541-0594	315-437-0377	
D DIRENZO EMP 185 ENG 27 OVER \$10,000K		
CA Inficon Leybold-Heraeus San Jose	408-294-5055	

INFINETICS INC ELECTROMAGNETIC		
DIV 201 VANDEVER AVE		
WILMINGTON DE 19802	302-658-2471	
M SCHWARTZ		

INFINET INC 40 HIGH ST		
NORTH ANDOVER MA 01845		
TXW 710-342-0666	617-681-0600	
D LAWSON EMP 365 ENG 35 OVER \$10,000K		
CA Infinet Inc Carson	213-516-8560	
CA Infinet Inc Oakland	415-568-3377	
GA Infinet Inc Atlanta	404-394-0434	
IL Infinet Inc Des Plaines	312-298-9383	
IN Infinet Inc Indpls	317-875-0864	
MD Infinet Inc Rockville	301-770-2272	
MI Infinet Inc Farmington Hills	313-626-2908	
MN Infinet Inc Mnppls	612-929-9511	
MO Infinet Inc Kansas City	816-474-5022	
NJ Infinet Inc Secaucus	201-348-6666	
NY Infinet Inc New York	212-869-8870	
OH Infinet Inc Westlake	216-871-4550	
PA Infinet Inc Blue Bell	215-628-0770	
TX Infinet Inc Houston	713-880-5756	
WA Infinet Inc Bellevue	206-451-8180	
WI Infinet Inc Milwaukee	414-278-5464	

INFOCENTER SOFTWARE 171 MAIN ST		
NEW PALTZ NY 12561	914-255-8925	
F PAGANO EMP 21		

INFODEX INC 395 W MAIN ST		
WATERBURY CT 06702 TWX 178702	203-757-9291	
E ULM EMP 54 ENG 9 \$2,500-\$5,000K		
CA A F Sales Engrg Pasadena	818-681-5631	
MA Nortech Eng Sales Boston	617-359-6063	

INFORMATION CONTROL CORP		
9610 BELLANCA AVE LOS ANGELES		
CA 90045 TWX 910-328-7234	213-641-8520	
EMP 30 ENG 5		

INFORMATION TRANSFER INDUSTRIAL		
INC BOX 357 HOLCOMB NY 14469	716-657-7074	
J WISEMAN EMP 65 ENG 7 \$1,000-\$2,500K		
AZ Luscombe Eng Co Scottsdale	602-949-9333	
CA Luscombe Eng Co Campbell	408-370-2020	
CA Luscombe Eng Co Pasadena	213-684-2000	

CA Luscombe Eng Co San Diego	714-295-4300
CO Pond Assoc Littleton	303-798-2904
CT Polytek Assoc Marlton	203-621-4542
IL Ken W Meyers Co Schaumburg	312-882-4808
IN Ken W Meyers Co Indpls	317-783-1030
IA Ken W Meyers Co Cedar Rapids	319-363-8987
MD Rifle Assoc Clarksville	301-983-2811
MA Polytek Assoc Ashland	617-881-4741
MN Ken W Meyers Co Mnppls	612-920-7080
NY Robt F Lamb Co Albany	518-869-3355
NY Robt F Lamb Co Buffalo	716-874-4900
NY Robt F Lamb Co Syracuse	315-454-2469
NY Robt F Lamb Co Rochester	716-323-1250
OR Tasco Inc Portland	503-245-8168
PA Robert Meyers Assoc Melrose Pk	215-224-1663
TX Scientific Sales Co Richardson	214-231-6541
TX Scientific Sales Co Houston	713-460-9170
WA TASCO Inc Bellevue	206-453-1414
WI Ken W Meyers Co Brookfield	414-784-3790

INFORMER COMPUTER TERMINALS		
12781 PALA DR GARDEN GROVE		
CA 92641 TWX 910-328-6544	714-891-1112	
B HAMLIN EMP 100 ENG 13 OVER \$10,000K		

INFOTEC SYSTEMS 1400 N BAXTER ST		
ANAHEIM CA 92806-1201		
TXW 182283	714-956-9300	
MARK HEYMAN EMP 475 ENG 15 \$2,500-\$5,000K		

INFOTRON SYSTEMS CORP CHERRY		
HILL IND CTR CHERRY HILL		
NJ 08003 TWX 710-940-1247	609-424-9400	
S STUART EMP 900 OVER \$10,000K		
CA Infotron Sys Corp San Francisco	415-854-9201	
CA Infotron Sys Corp Irvine	714-261-0622	
CO Infotron Sys Corp Aurora	303-695-8866	
CT Infotron Sys Corp Yalesville	203-285-6925	
FL Infotron Sys Corp St Petersburg	813-576-8663	
GA Infotron Sys Corp Smyrna	404-436-5299	
IL Infotron Sys Corp Chicago	312-726-7213	
IN Infotron Sys Corp Indianapolis	317-846-7513	
KS Infotron Sys Corp Overland Pk	913-451-1695	
MA Infotron Sys Corp Southboro	617-485-8234	
MI Infotron Sys Corp Southfield	313-355-9050	
MN Infotron Sys Corp St Paul	612-482-7779	
MO Infotron Sys Corp St Louis	314-434-9655	
NJ Infotron Sys Corp Parsippany	201-884-2229	
NY Infotron Sys Corp New York	212-422-3610	
NC Infotron Sys Corp Raleigh	919-878-5911	
OH Infotron Sys Corp Middleburg Hts	216-243-5066	
PA Infotron Sys Corp Pittsburgh	412-344-1343	
TN Infotron Sys Corp Brentwood	615-377-0712	
TX Infotron Sys Corp Houston	713-961-5099	
VA Infotron Sys Corp Vienna	703-790-3500	
WA Infotron Sys Corp Seattle	206-281-9373	

INFRARED INDUSTRIES INC		
DETECTOR DIV 12151 RESEARCH		
PKWY ORLANDO FL 32826		
TXW 568908	305-282-7700	
W DONALDSON EMP 113 ENG 10 \$2,500-\$5,000K		
CA Infrared Industries Carpiniera	805-684-4181	
CT Infrared Industries New Haven	203-624-0133	

INFRARED INDUSTRIES INC-INSTRUMENTS		
DIV BOX 989 SANTA BARBARA		
CA 93102 TWX 658-4800	805-684-4181	
G NECKERMANN EMP 150 ENG 12 OVER \$10,000K		
INJECTORALL ELECTRONICS CORP		
98-100 GLEN ST GLEN COVE		
NY 11542	516-671-6010	
M FRIEDMAN \$100-\$250K		
AL John F Russell Birmingham	205-822-2196	
CA Ross Sales Long Beach	213-424-9818	
CA Carelli-EMA Burlingame	415-697-6286	
FL A Friedman Miami Bch	305-932-1790	
MA W B Pray Co Northboro	617-393-3434	
MI Harvey Sales Co Livonia	313-476-1974	
NY Mort Maltz & Co Brooklyn	212-252-1139	
WA McLaughlin Mktg Inc Edmonds	206-743-1161	

DISTRIBUTORS

AL Mock Elect Inc Huntsville	205-539-2401
CA Electronics Plus San Rafael	415-457-0468
CA Quement Elect San Jose	408-998-5900
MA You-Do-It Elect Ctr Needham	617-449-1005
NY Anchor Elect Richmond Hill	212-846-2420
OR Norvac Elect Beaverton	503-644-1025
WA Electronic Supermart Kent	206-575-1043
WA Radar Elec Co Seattle	206-282-2511

INLAND MOTOR SPECIALTY PRODS		
DIV-KOLLMORGEN CORP 501		
FIRST ST RADFORD VA 24141		
TXW 710-875-3740	703-639-9045	
W RUNIEWICZ EMP 420 ENG 30 OVER \$10,000K		
AL Technology Mktg Assoc Huntsville	205-883-7893	
AZ Thor Engng Mfg Phoenix	602-437-1463	
CA Thorson Co Signal Hill	213-595-0361	
CA Thorson Co Alhambra	213-281-2280	
CA Thorson Co Goleta	805-964-8751	
CA Thorson Co Mtn View	415-964-9300	
CA Thorson Co San Diego	619-292-8525	
CO Thorson Co Englewood	303-779-0666	
CT Vanguard Elctns Wolcott	203-879-9310	
FL Technology Mktg Assoc Orlando	305-857-3760	
FL Technology Mktg Assoc Melbourne	305-676-3776	
FL Technology Mktg Assoc Pompano Beach	305-942-0774	
FL Technology Mktg Assoc Largo	813-536-3796	
GA Technology Mktg Assoc Atlanta	404-257-0374	
IL Carlson Elctns Sales Elk Grove Vlg	312-956-8240	
IL Magna Engrg Sales Collinsville	618-345-5583	
IN Carlson Elctns Sales Indpls	317-842-3740	
IN J & W Sales Indpls	317-842-3740	

IA Carlson Elctns Sales Cedar Rapids	319-377-6341
KS Magna Engrg Sales Wichita	316-744-0811
MD Rep-Tron Inc Baltimore	301-621-1313
MA Vanguard Elctns Sales Needham Hts	617-449-5578
MI R P Urban & Assoc Grand Rapids	616-245-0511
MI R P Urban & Assoc Redford	313-535-2355
MN John J Exon Co Mnppls	612-636-5553
NJ S H Lagerveld & Assoc Wayne	201-790-1714
NY A & D Devices Victor	716-385-2778
OH Cygnus Medina	216-725-1663
OR Thorson Co Beaverton	503-644-5900
PA Homer Smith Co Media	215-543-2434
TX Magna Engrg Sales Dallas	214-349-6171
UT Thorson Co West Valley City	801-973-7969
WA Thorson Co Bellevue	206-455-9170
WI Carlson Elctns Sales Milwaukee	414-476-2781

INMAC 2465 AUGUSTINE DR		
SANTA CLARA CA 95054		
TXW 910-339-9286	408-727-1970	
CA Inmac Irvine	714-641-3100	
CA Inmac Sunnyvale	408-737-7777	
CO Inmac Denver	303-799-4324	
GA Inmac Atlanta	404-441-3041	
IL Inmac Chicago	312-885-8383	
MD Inmac Washington DC	301-731-5980	
NH Inmac Hudson	603-889-4900	
NJ Inmac New York	201-767-3601	
TX Inmac Dallas	214-641-0024	

INMARK CORP 147 W CEDAR ST		
NORWALK CT 06854 TWX 99-6419	203-866-8474	
L GIERS EMP 6 ENG 1 \$1,000-\$2,500K		
AZ WJM Sales Tucson	602-888-4847	
AR Electro Related Prods Fort Smith	201-452-4030	
CA Spectrum Assoc San Diego	619-272-3732	
CA Nolan Assoc La Habra	213-694-2145	
CO W Region Mktg Westminster	303-430-8883	
CT Tech Sales Reps Cheshire	203-272-8509	
IL Energy Clinic No Lake Bluff	312-234-1310	
MI R & D Elctns Noblesville IN	317-849-2026	
KY R P Urban Assoc Grand Rapids	616-245-0511	
MN Kencotronics Inc St Paul	612-645-7717	
MO Engineering Services St Louis	314-997-1515	
NJ Naudain Assoc Marlton	609-983-5300	
NY L-Tron Corp Latham	518-785-5032	
NY Ramapo Mfgs Agent Wayne NJ	201-839-6767	
TX EPR/Electronic Prod Repts Arlington	817-467-0377	
WI Warchow Assoc Milwaukee	414-961-8883	

INMOS CORP BOX 16000 COLORADO		
SPRINGS CO 80935		
TXW 910-920-4904	303-630-4000	
EMP 800		
AL Macro-Mktg Assoc Huntsville	205-883-9635	
AZ Compass Mktg Sales Phoenix	602-996-0635	
CA Inmos Sales Torrance	213-530-7764	
CA Inmos Sales San Jose	408-298-1786	
CO Component Sales Denver	303-779-8060	
GA Macro-Mktg Assoc Atlanta	205-883-9630	
IL Micro-Tex Schaumburg	312-885-1131	
IN Electronic Mktg Consultants Indpls	317-253-1668	
KS B C Elctn Sales Kansas City	913-342-1211	
MD New Era Sales Severna Park	301-544-4100	
MA Inmos Sales Westboro	617-366-4020	
MN Inmos Sales Mnppls	612-831-5626	
MO B C Elctn Sales St Louis	314-291-1101	
NJ R T Reid Assoc Teaneck	201-692-0200	
NM Compass Mktg & Sales Albuquerque	505-888-0800	
NY R T Reid Assoc Melville	516-351-8833	
NY L-Mar Assoc Rochester	716-323-1000	
OH E S J Beachwood	216-831-9555	
OK B P Sales Tulsa	918-744-9964	
OR Westerberg & Assoc Portland	503-620-1931	
PA Knowles Assoc Huntingdon Valley	215-322-7100	
TX B P Sales Dallas	214-234-8438	
UT Component Sales SLC	801-268-8440	
WA Westerberg & Assoc Bellevue	206-453-8881	
WI Micro-Tex Waukesha	414-542-5511	
FR Har-Tech Elctns Downsview ON	416-665-7773	
FR Har-Tech Elctns Pointe Claire PQ	514-694-6100	

DISTRIBUTORS

AL Arrow Elctns Huntsville	205-837-695
----------------------------	-------------

NY	Arrow Elctns Liverpool.....	315-652-1000
NY	Arrow Elctns Rochester.....	716-427-0300
OH	Arrow Elctns Centerville.....	513 433-5563
OH	Arrow Elctns Solon.....	216 248-3990
OK	Arrow Elctns Tulsa.....	918-665-7700
OR	Arrow Elctns Portland.....	503-684-1690
PA	Arrow Elctns Monroeville.....	412-856-7000
PA	Lionex Corp Horsham.....	215-443-5150
TX	Arrow Elctns Austin.....	512-835-4180
TX	Arrow Elctns Dallas.....	214-380-6464
TX	Arrow Elctns Stafford.....	713-530-4700
UT	Arrow Elctns Salt Lake City.....	801-539-1135
WA	Arrow Elctns Bellevue.....	206-643-4800
WI	Arrow Elctns Oak Creek.....	414-764-6600
FR	Future Elctns Ottawa ON.....	613-820-8313
FR	Future Elctns Calgary AB.....	403-235-5325
FR	Future Elctns Pointe Claire PQ.....	514-694-7710
FR	Future Elctns Vancouver BC.....	604-438-3321

INNES INSTRUMENT CO 1830	
REITER DR PASADENA CA 91106.....	818-796-3288
F FLEMING EMP 3 ENG 1	

INNOTECH CORP 2285 RESERVOIR AVE	
TRUMBULL CT 06611.....	
TXW 710-453-3606.....	203-371-0191
R LUTHMANN EMP 46 ENG 6	
CA Tech Ser Torrance.....	213-320-8101
CA Tech Ser Mt View.....	415-969-9020
MA ATM World Trade Amesbury.....	603-394-7874

INNOVATION INDUSTRIES INC	
BOX 2996 RUSSELLVILLE	
AR 72801.....	501-968-2232
R BUFORD EMP 73 ENG 1 \$5,000-\$10,000K	

INNOVATIVE CIRCUITS INC	
932 MINNESOTA AVE KANSAS CITY	
KS 66101.....	913-321-0688
P WARD EMP 25	

INNOVATIVE ELECTRONICS INC	
4714 NW 165 ST MIAMI	
FL 33014 TWX 807121.....	305-624-1644
EMP 25 ENG 10 \$2,500-\$5,000K	

INRESCO INC 654 OCEAN RD	
POINT PLEASANT NJ 08742.....	201-892-5881
G MARTIN EMP 15 ENG 2 \$100-\$250K	
CA Caltronics Santa Ana.....	714-751-9162
CA Manning Co San Diego.....	619-565-6097
CO McCarthy Co Littleton.....	303-773-0643
IL Greenslade Sales Arlington Hts.....	312-253-9620
KY Elecco Edgewood.....	606-341-0330
NY Optimum Sales Co Mastic.....	516-589-4664
PA Check Assoc Philadelphia.....	215-487-3007

DISTRIBUTORS	
MA Baldwin Components Ctr Billerica.....	617-667-6710
NY Baldwin Components Ctr	
Ronkonkoma.....	516-588-5700

INSCO CORP 412 MAIN ST GROTON	
MA 01450.....	617-448-6369
H BOSTDER EMP 70 ENG 4	
CA Mooney Industrials San Rafael.....	415-472-4644
FL Blair Engrg Fern Park.....	305-834-1244
IL A E Lundahl Wheaton.....	312-668-1407
MD Technical Systems Crofton.....	301-261-6600
NY Brandon Assoc Canandaigua.....	716-394-6080
NY Swedelco Hawthorne.....	914-747-0101
NC Blair Engrg Greensboro.....	919-292-8200
OK Blair Engrg Tulsa.....	918-747-3100
PA Brandon Assoc Norristown.....	215-539-4930
TX Blair Engrg Sales Co Dallas.....	214-352-8411

INSTRU-LEC CORP 44 OLD	
STATE RD 18 NEW MILFORD	
CT 06776.....	203-355-3717
R HOBERT EMP 10 ENG 3 \$250-\$500K	

INSTRUMATICS INC 15516	
INDUSTRIAL PKWY CLEVELAND	
OH 44135.....	216-267-9020
C GALLAGHER EMP 40 ENG 1 \$1,000-\$2,500K	

INSTRUMENTATION & CONTROL	
SYSTEMS INC 520 INTERSTATE RD	
ADDISON IL 60101.....	
TXW 910-991-5945.....	312-543-6200
S EARNST EMP 40 ENG 3 \$1,000-\$2,500K	
CA HMC Inc Arcadia.....	818-447-0958
FL Hummel Indus Sales Miami.....	305-651-0196
IL Hill-Gray Assoc Elmhurst.....	312-832-4101
IN Dorsey Assoc Indpls.....	317-842-0060
KS Micro-Tronics Shawnee Mission.....	913-262-1444
MI CB Jensen & Assoc Troy.....	313-643-0506
NH Burnham Assoc Durham.....	603-868-2282
FR Allied Elec Willowdale ON.....	416-499-7228

DISTRIBUTORS	
CA C & A Elect Canoga Pk.....	213-340-6022
CA Allied Elec Garden Grove.....	714-554-0731
CA Allied Elec Hayward.....	415-487-5250
CA Allied Elec San Jose.....	408-727-1690
FL Industrial Cont & Drives Miami.....	305-651-0196
FL Allied Elec Ft Lauderdale.....	305-486-0500
GA Automatic Controls Atlanta.....	404-266-0130
IL Advent Elec Rosemont.....	312-297-6200
IL B B & W Berwyn.....	312-749-1710
IN Advent Elec Elgin.....	312-697-8200
IN Advent Elec Indpls.....	317-872-4910
IA Advent Elec Cedar Rapids.....	319-363-0221
MD Advent Elec Marlow Hts.....	301-423-0161
MA Advent Elec Wilmington.....	617-942-0150
MI Advent Elec Farmington Hills.....	313-477-1650
MN Powermation St Paul.....	612-645-0781
MO Interstate Ind Elec St Louis.....	314-481-6110
NY Soundview Instr Bay Shore.....	516-666-1000
NY Allied Elec Mineola.....	516-248-2360

OH Neptune Chagrin Falls.....	216-247-7030
PA Peak Elec Wayne.....	215-293-9000
TX Powertronics Supply Garland.....	214-272-4640
TX Carden Ind Group Brownsville.....	512-546-1612
TX Allied Elec Ft Worth.....	817-336-5401
WA Allied Elec Seattle.....	206-767-5772
WI Powermation Waukesha.....	414-542-2868
WI Fedco Elec Fond Du Lac.....	414-222-6490

INSTRUMENTATION ENGINEERING INC	
769 SUSQUEHANNA AVE	
FRANKLIN LAKES NJ 07417	
TXW 130-352.....	201-891-9300
T BIZZOCO EMP 120 ENG 45 \$5,000-\$10,000K	
CA Instrumentation Engrg Simi	
Valley.....	805-522-3060
TX Instrumentation Engrg Georgetown.....	512-863-6497

INSTRUMENT ENCLOSURES 9767	
GLENOAKS BLVD SUN VALLEY	
CA 91352 TWX 70-5097.....	818-768-4622
W BENJAMIN EMP 30 ENG 1 \$1,000-\$2,500K	

INSTRUMENT RESEARCH CO BOX 40207	
SANTA BARBARA CA 93103.....	805-962-8336
B HOBBS EMP 4 ENG 2 UP TO \$100K	

INSTRUMENTS FOR INDUSTRY INC	
151 TOLEDO ST FARMINGDALE	
NY 11735 TWX 510-222-0876.....	516-694-1414
P MALONEY EMP 25 ENG 6 \$1,000-\$2,500K	
ADV PG 17	

AZ DJM Elect Mesa.....	602-820-4030
CA DJM Elect Newhall.....	805-254-2677
CO R A Mayes Co Englewood.....	303-761-9447
MD CSDS Inc Laurel.....	301-490-3800
MN Deerland Dist Mnpls.....	612-331-6433
MO EIR Co Kansas City.....	816-452-7030
NJ Brady Co N Plainfield.....	201-753-7988
NY Electro-Modular Systems	
Guilderland.....	518-456-2665
NY R A Mayes Co Albuq.....	505-292-2330
OH Bill Teputz Assoc Cleveland.....	216-439-3265
TX Scientific Devices 312	
N Central SE Richardson.....	214-231-8106
FR Multilek Nepean ON.....	613-226-2365

INSTRUMENTS INC 7263 ENGINEER RD	
SAN DIEGO CA 92111	
TXW 910-335-1607.....	619-571-1111
K KALBFELL EMP 20 ENG 5 \$1,000-\$2,500K	
ADV PG 11	

INSTRUMENT SPECIALTIES CO INC	
BOX A BROAD ST DELAWARE	
WATER GAP PA 18327	
TXW 910-671-4526.....	717-424-8510
R PIRRELLO EMP 300 ENG 11 OVER \$10,000K	
AZ O'Donnell Assoc SW Phoenix.....	602-994-9524
CA O'Donnell Assoc San Jose.....	408-263-6500
CA O'Donnell Assoc Torrance.....	213-539-9654
CO D M Harthun Assoc Englewood.....	303-792-5050
MI Engineered Components Brooklyn.....	517-592-3236
NL Rel Comp Eagan.....	612-944-1167
NM O'Donnell Assoc SW Albuquerque.....	505-883-1030
OR Temco Northwest Hillsboro.....	503-648-8171
TX J M Spell Co Dallas.....	214-620-0040
WA Temco Northwest Bothel.....	206-821-5434

INTECH INC 282 BROKAW RD	
SANTA CLARA CA 95050	
TXW 910-338-0254.....	408-727-0500
T STEVENSON EMP 150 ENG 20 OVER \$10,000K	

DISTRIBUTORS	
GA Fleet Marine Supply N Miami.....	305-945-4253

INTECH INC INSTRUMENT DIV	
282 BROKAW RD SANTA CLARA	
CA 95050 TWX 910-338-0254.....	408-727-0500
H RANDALL EMP 150 ENG 20 OVER \$10,000K	

AZ Qualtech Inc Phoenix.....	602-967-4655
CA T Louis Snitzer Co LA.....	213-836-6170
CA Comtek Systems Santa Clara.....	408-985-7296
CO Martec Assoc Lakewood.....	303-987-0922
CT McBar Assoc Shelton.....	203-865-4376
FL EMS Melbourne.....	305-724-1027
MA Eastern Systems Tech Hopkinton.....	617-435-9591
MN Electronic Inst Consultants	
Canhassen.....	612-445-7056
NM Hewitt Assoc Albuq.....	505-299-7746
NY Labtronics Syracuse.....	315-455-7314
NY Labtronics N Tonawanda.....	716-693-2257
OH TMS Inc North Ridgeville.....	216-327-3527
TX Crockett Southwest Co Dallas.....	214-438-2776
UT Martec Assoc Bountiful.....	801-298-9341

DISTRIBUTORS	
IN TMS Inc Indpls.....	317-845-9626
MO Web Assoc Florissant.....	314-921-5720
NJ Javie Bickel Inc Marlton.....	609-596-6900
NC P J Nahser Co Burlington.....	919-226-8053
WA Scientific Devices Bellevue.....	206-747-5169

INTECH INC MICROCIRCUITS DIV	
2270 MARTIN AVE SANTA CLARA	
CA 95050 TWX 910-338-2213.....	408-988-4930
W TALBERT EMP 150 ENG 8 OVER \$10,000K	
AZ SEDCO Mesa.....	602-835-6281
CA Mesa Engineering San Diego.....	619-278-8021
CA Plustronics Newport Beach.....	714-476-3619
CO Frontier Englewood.....	303-799-6063
IL John Kenneough & Assoc Roselle.....	312-980-7570
IN C C Electro Indpls.....	317-255-1508
MD Arbotek Towson.....	301-825-0775
MA Kitchen & Kutchin Burlington.....	617-229-2680
MI Pine Sales Madison Hts.....	313-589-0350
MN High Technology Eden Prairie.....	612-944-7274
NJ BGR Assoc Marlton.....	609-983-1020
NY Ontec Rochester.....	716-464-8636

NY Compar NY Huntington.....	516-423-5660
OH Norm Case Assoc Rocky River.....	216-333-0400
TX Technology Sales Richardson.....	214-437-5881
WA N R Schultz Bellevue.....	206-454-0300

INTECOLOR CORP 225 TECHNOLOGY PK	
NORCROSS GA 30092	
TXW 810-766-1581.....	404-449-5961
M RICHARDSON EMP 235 ENG 10 OVER \$10,000K	
AZ Holder-Hauer Tempe.....	602-242-4025
CA Intecolor Sacramento.....	916-924-9661
CA King Engineering Encino.....	818-995-7271
CO Holder Hauer Aurora.....	303-368-8677
CT Northern Computer Sales Goshen.....	203-491-3585
FL Datalogic Ft Lauderdale.....	305-493-7760
GA Intecolor Atlanta.....	404-449-5961
IL Resource Data Systems Northbrook.....	712-564-5440
MA Northern Computer Sales Westwood.....	617-326-3544
MI Infinity Inc Southfield.....	313-557-7230
MI Dytec North Inc St Paul.....	612-645-5816
MO Digital Systems Sales Grandview.....	816-765-3337
NJ Intecolor Freehold.....	201-577-0020
NY SDM Reps Rochester.....	716-247-8770
NY Intecolor Charlotte.....	704-334-8359
OH Infinity Inc Aurora.....	216-562-5511
PA Miller & Dietz Co Frazer.....	215-647-7373
TX Intecolor Houston.....	713-789-5385
VA Intron Corp Springfield.....	703-569-1500

DISTRIBUTORS	
CA Datalease Sys & Financial	
Placentia.....	714-632-6986
NY MTI Sys Corp Port Washington.....	516-621-6200

INTEGRA MICROWAVE 2368 WALSH AVE	
SANTA CLARA CA 95051	
TXW 910-338-0585.....	408-727-9601
L JOHNSON EMP 12 ENG 3	
AZ Odyssey I Phoenix.....	602-246-8846
CA Microwave Measurements	
Pleasanton.....	415-846-0377
CA McDougall & McLaughlin	
Los Angeles.....	213-477-8556
CO Odyssey I Englewood.....	303-773-8176
CT Pat Jenks Assoc Wallingford.....	203-265-9939
FL Saber Assoc Melbourne.....	305-724-0920
IL Dytec/Central Arlington Hts.....	317-247-1316
IN Dytec/Central Indpls.....	617-938-0488
MA Pat Jenks Assoc Woburn.....	313-588-2300
MI WKM Madison Hts.....	612-645-5816
NJ Dytec/North St Paul.....	201-871-3916
NJ Scientific Devices East Teaneck.....	505-265-6645
NM Odyssey I Albuquerque.....	513-434-7500
OH WKM Dayton.....	918-299-4818
OK Data Mktg Assoc Tulsa.....	215-224-1663
PA Robert Meyers Assoc Melrose Park.....	214-661-0300
TX Data Mktg Assoc Dallas.....	703-442-9100
VA Creative Mktg Assoc McLean.....	703-442-9100
WI Dytec/Central Elm Grove.....	414-784-9686
FR Canadian Marconi Co Montreal PQ.....	514-341-7630

INTEGRATED CIRCUIT ENGINEERING	
CORP 15022 N 75 ST SCOTTS DALE	
AZ 85260 TWX 165-755.....	602-998-9780

INTEGRATED CIRCUITS INC	
10301 WILLOWS RD REDMOND	
WA 98052 TWX 910-443-2302.....	206-882-3100
B BRUGMAN EMP 265 ENG 22 OVER \$10,000K	
CA Weseloh-Swanson & Assoc Mt View.....	408-255-3205
CA Martonix Inc El Toro.....	714-858-0632
FL EMS Inc Melbourne.....	305-724-1027
IL Gassner & Clark Co Schaumburg.....	515-255-1148
IA Beams Co Des Moines.....	515-255-1148
KD Beams Co Shawnee Mission.....	913-631-0300
MS Neal Deoul Assoc Owings Mills.....	301-363-4311
MO Howard C Jappe Co Wakefield.....	617-245-9359
MO Beams St Louis.....	314-569-1060
PA Yax Assoc Point Pleasant.....	215-297-5674
TX Kite Elctn Sales Co Irving.....	214-438-9336

INTEGRATED POWER SEMICONDUCTORS	
LTD 2727 WALSH AVE SANTA	
CLARA CA 95051 TWX 350073.....	408-727-2772
R FROSTHOLM EMP 100 ENG 45 \$1,000-\$2,500K	
CA QuadRep Central Calabasas.....	818-887-3711
CA SR Electronics San Diego.....	619-560-8330
CT Comp Rep Assoc Wallingford.....	203-269-1145
FL Conley & Assoc Oviedo.....	305-365-3283
MA CompRep Assoc Westwood.....	617-320-3454
NH CompRep Assoc Amherst.....	603-673-0454
NY Comtron Assoc Melville.....	516-249-1505
OK John B Guenther Inc Tulsa.....	918-660-5126
PA S-J Assoc Philadelphia.....	215-464-4288
SC Integrated Power Semiconductors	
West Warwick.....	401-821-4260
TX Integrated Power Semiconductors	
Dallas.....	214-691-8500
FR CompRep Assoc Caguan.....	809-746-5154

DISTRIBUTORS	
AZ Insight Electronics Tempe.....	602-829-1800
CA Logan Electronics San Carlos.....	415-594-0700
CA Insight Electronics San Diego.....	619-587-0471
CA Intercept Elect Corp Irvine.....	714-261-9362
FL Dielo Ft Lauderdale.....	305-973-8700
MA Interface Elect Corp Hopkinton.....	617-435-6858
NY Intercept Elect Corp Patterson.....	914-878-3355
PA Ship Elect Philadelphia.....	215-969-3300
TX Heiland Elect Dallas.....	214-351-2050
TX Bell Comp Sales Arlington.....	817-461-5303

INTEGRATED PHOTOMATRIX INC	
1101 BRISTOL RD MOUNTAINSIDE	
NJ 07092 TWX 13-8275.....	201-233-6010
R CONROY EMP 35 ENG 5 \$1,000-\$2,500K	

INTELCO 282 CENTRAL ST WEST ACTON MA 01720.....	617-264-4485
J CHIPMAN EMP 12 ENG 6	
CA Optical Communication Sys Rough & Ready.....	916-432-3115
GA Laser Sales Inc Atlanta.....	404-953-8487
TX Laser Sales Inc Plano.....	214-578-1887
INTELLEDEX INC 4575 SW RESEARCH WAY CORVALLIS OR 97333 TWX 75-2441.....	503-758-4700
D ORTEGA EMP 180 ENG 90	
CA Intellex Santa Clara.....	408-980-1762
CA Intellex.....	714-833-9404
FL Intellex Orlando.....	305-345-9222
IN Intellex Kokomo.....	317-457-1129
MA Intellex Wakefield.....	617-246-4360
MN Intellex Bloomington.....	612-854-8559
TX Intellex Dallas.....	214-238-1751
INTELLIGENT CONTROLS INC 297 NORTH ST BOX 638 SACO ME 04072.....	207-283-0156
K HUGHES EMP 12 ENG 3 \$500-\$1,000K	
INTERACTIVE CIRCUITS & SYSTEMS LTD 3101 HAWTHORNE RD OTTAWA ON K1G 3V8.....	613-521-0590
S PENNINGTON EMP 12 ENG 7 \$500-\$1,000K	
CA Computer Modules Inc Santa Clara.....	408-988-1911
INTERCONICS - BUSSING SYS OPER 2525 E VISTA INDUSTRIA COMPTON PA 90220 TWX 316727.....	213-639-2535
M MINYARD EMP 80 ENG 4 \$2,500-\$5,000K	
CA Interconics Tustin.....	714-730-3708
MA Interconics Chelmsford.....	617-458-7277
TX Interconics Dallas.....	214-770-4101
WA Halbar Assoc Vancouver.....	206-696-2464
INTERCONICS DIV BMC INDUSTRIES 100 NE BLVD BOX 888 NASHUA NH 03061 TWX 94-0340.....	603-883-5541
R FORMICA EMP 220 ENG 16 OVER \$10,000K	
CA Interconics Div Irvine.....	714-730-7208
MA Interconics Div Chelmsford.....	617-458-7277
INTERCONNECT DEVICES INC 5101 RICHLAND AVE KANSAS CITY KS 66106 TWX 437262.....	913-342-5544
L KRESIN	
AZ Spectre Sales Scottsdale.....	602-948-8888
CA Electro-Venture Santa Clara.....	408-727-1553
CA Masco Electronics Brea.....	714-529-0866
CO Scientific Devices Co Denver.....	303-469-5145
FL Equipment Sales Co Altamonte Springs.....	305-339-2972
IL Electron Mktg Assoc Des Plaines.....	312-298-2330
IN Beams Co Des Moines.....	515-255-1148
MN Mil-Cor Mktg Inc Mnpls.....	612-944-8030
NH Krebs High Tech Assoc Nashua.....	603-883-9323
NY Scientific Devices Rochester.....	716-334-2445
NY K & J Assoc Wayne NJ.....	201-696-5390
NC Equipment Sales Raleigh.....	919-872-8376
OH Mecom Rising Sun.....	419-457-3231
PA Scientific Devices Philadelphia.....	215-699-7707
TX Advanced Tech Sales Dallas.....	214-340-1300
WA Electronics NW Redmond.....	206-883-1959
INTERCONNECTION TECHNOLOGY INC 5542 BUCKINGHAM DR HUNTINGTON BEACH CA 92649.....	714-891-5305
TWX 910-596-1879	
S SPICHER EMP 57 ENG 4 \$2,500-\$5,000K	
INTERDYNE CO 14761 CALIFA ST VAN NUYS CA 91411.....	213-787-6800
EMP 50 ENG 5 \$1,000-\$2,500K	
INTERELECTRONICS CORP 500 US RTE 303 CONGRS NY 10920.....	914-358-8000
M PINTLE EMP 65 ENG 37 \$1,000-\$2,500K ADV PG 335	
INTERFACE ENGINEERING INC 386 LINDELF AVE STOUGHTON MA 02072 TWX 940-848.....	617-344-7383
T SCANLON EMP 30 ENG 6 \$1,000-\$2,500K	
INTERFACE INC 7401 E BUTHURUS DR SCOTTSDALE AZ 85260.....	602-948-5555
TWX 668-394	
C FLAMMER	
INTERFACE TECHNOLOGY 2100 E ALOSTA AVE GLENDORA CA 91740 TWX 4945489.....	818-914-2741
EMP 125	
INTERFACE TECHNOLOGY 10500 KAHLMEYER DR ST LOUIS MO 63132 TWX 910-765-0916.....	314-426-6880
S MUTHUSWAMY EMP 50 ENG 6 \$2,500-\$5,000K	
INTERFAN DIV WM J PURDY CO 770 AIRPORT BLVD BURLINGAME CA 94010 TWX 910-374-2353.....	415-347-1203
T NEIL EMP 68 ENG 7 \$2,500-\$5,000K	
AR Erickson Sales Mabelville.....	501-455-0618
CA Berman Gravelly Co Costa Mesa.....	714-549-2122
CO Wm J Purdy Co Denver.....	303-753-6800
FL Hutto-Hawkins-Perego Maitland.....	305-831-2474
GA Millar Electronics Atlanta.....	404-261-6160
IL Hill-Gray Assoc Elmhurst.....	312-832-4101
IN John Sukup Inc Indpls.....	317-253-5501
LA Erickson Sales Chalmette.....	504-271-1976
MD S K MacDonald Inc Lisbon.....	301-442-1590
MI Hilltronics Inc Ferndale.....	313-398-5556
NH Bell Controls Nashua.....	603-882-6984
NJ Sprung/Nussbaum Englewood.....	201-569-5666

NM Wm J Purdy Co Albuquerque.....	505-266-7959
NY Paston-Hunter Co Syracuse.....	315-437-2843
NC Millar Electronics Raleigh.....	919-787-9564
OK Erickson Sales Broken Arrow.....	918-455-4276
OR Wm J Purdy Co Beaverton.....	503-641-9373
PA S K MacDonald Inc Philadelphia.....	215-545-1205
TX Erickson Sales Dallas.....	214-739-5833
WA Wm J Purdy Co Redmond.....	206-882-3144
FR Lenbrook Industries Markham ON.....	416-477-7722
INTERLAB INC PRECISION RD DANBURY CT 06810 TWX 643147.....	203-748-5624
L GEORGE EMP 60 ENG 4	
INTERLINK COMPUTER SCIENCES INC 39055 HASTINGS ST FREMONT CA 94538 TWX 880139.....	415-792-6212
S BOWDEN EMP 30 ENG 8	
IL Interlink Schaumburg.....	312-303-0611
MA Interlink Northboro.....	617-393-3118
NJ Interlink Freehold.....	201-577-1800
PA Interlink Longwood.....	305-831-7600
DISTRIBUTORS	
MA IOCS Waltham.....	617-890-2299
NY Eastman Commun Rochester.....	716-464-5500
OK CR Systems Tulsa.....	918-747-6382
INTERLOK DIV WM J PURDY CO 770 AIRPORT BLVD BURLINGAME CA 94010 TWX 910-374-2353.....	415-348-5625
K HOLLA EMP 10 ENG 1 \$500-\$1,000K	
AZ Foley Talient & Lee Tempe.....	602-894-2345
AR J Y Schoonmaker Co Little Rock.....	501-375-2168
CA Impact Electronics Anaheim.....	714-533-1361
CO W J Purdy Co Denver.....	303-777-1411
CT Sturgeon Co Hartford.....	203-249-7800
IL Hill-Gray Assoc Elmhurst.....	312-832-4101
IN Sukup & Cox Indpls.....	317-253-5501
IA MSB Assoc Marion.....	319-377-6261
KS MSB Assoc Shawnee Mission.....	913-432-2131
MD S K MacDonald Inc Lisbon.....	301-924-5880
MA Sturgeon Co Needham Hts.....	617-444-6603
MI Hilltronics Ferndale.....	313-398-5556
MO MSB Assoc St Charles.....	314-895-4700
NJ Harold Gray Assoc Englewood.....	201-894-0894
NM W J Purdy Co Albuquerque.....	505-266-7959
NY Paston-Hunter Co Syracuse.....	315-437-2843
OK J Y Schoonmaker Co Tulsa.....	918-444-0373
PA S K MacDonald Inc Phila.....	215-545-1205
TX J Y Schoonmaker Co Dallas.....	214-349-1650
WA Wm J Purdy Co Seattle.....	206-284-8020
DISTRIBUTORS	
AZ Anjon Entrps Tempe.....	602-894-1332
CA HDB Elect Redwood City.....	415-368-1388
CA Panel Parts Chatsworth.....	213-998-5991
CA Waltronics Santa Clara.....	408-727-1200
CO Acacia Sales Lakewood.....	303-232-2882
CT Sager Elec Supply Wallingford.....	203-265-4600
IL Melvin Elect Villa Park.....	312-279-5010
MA Sager Elec Sply Hingham.....	617-749-6700
MA Land Elect Supply Lynn.....	617-592-2220
MA Vantage Elect Waltham.....	617-894-8690
NJ Garden State Elctns Cranford.....	201-272-6400
NM Walker Electronic Supply Co Albuquerque.....	505-247-2288
NY Summit Distb Buffalo.....	716-884-3450
OK Radio Inc Tulsa.....	918-587-9123
PA Phila Elec Phila.....	215-568-7400
TX Lenert Co Houston.....	713-225-1465
VA Inst Tech Rep Richmond.....	804-275-1431
INTER-MARKET INC 1946 LEHIGH AVE BOX 69 GLENVIEW IL 60025 TWX 910-651-1997.....	312-729-5330
C RITTER EMP 9 ENG 1 \$500-\$1,000K	
MN Kencotronics Inc St Paul.....	612-645-7717
PA Espy Sales Co Rydal.....	215-576-0780
WA Electronic Mktg Group Bellevue.....	206-746-5915
FR Braydon Electro Ltd St Laurent PQ.....	514-332-5650
DISTRIBUTORS	
CA Mil-Comm Dist Chatsworth.....	213-998-3111
CO Integrated Elec Denver.....	303-292-6121
ID A-1 Elect Spirit Lake.....	208-623-3111
IL Newark Elec Chicago.....	312-638-4411
MI SF Elect Grand Rapids.....	616-459-0216
MN KDI Inc St Paul.....	612-645-5090
NH C & H Elec Hudson.....	603-882-1133
NJ Relay Spec Fair Lawn.....	201-797-3313
OH Stotts-Friedman Dayton.....	513-298-5535
PA Resco Elect Willow Grove.....	215-659-4575
WI Electronic Industries Oshkosh.....	414-235-8930
INTERMEC CORP 4405 RUSSELL RD: BOX 360602 LYNNWOOD WA 98046-9702 TWX 152447.....	206-348-2600
G TANNHEIMER EMP 439 ENG 39 OVER \$10,000K	
AL W A Brown Huntsville.....	205-883-8660
AK Transalaska Data Sys Anchorage.....	907-561-1776
AZ Four Corners Technology Scottsdale.....	602-998-4440
CA Intermec West Los Gatos.....	408-395-4770
CA Intermec West Tustin.....	714-259-1511
FL W A Brown Orlando.....	305-425-5505
GA W A Brown Norcross.....	404-441-2980
IL Dytec/Central Arlington Hts.....	312-394-3380
IN Dytec/Central Indpls.....	317-247-1316
KS Ramsey Assoc Lenexa.....	913-541-1007
LA W A Brown Mandeville.....	504-626-9701
MA Tema Inc Natick.....	617-653-8655
MI WKM Assoc Madison Hts.....	313-588-2300
MO Dytec/North St Paul.....	612-645-5816
MO Ramsey Assoc Maryland Hts.....	314-878-5042
NJ SDM Reps Lodi.....	201-368-0123
NM Four Corners Technology Albuquerque.....	505-345-5651
NY SDM Reps Rochester.....	716-247-8770
NC W A Brown Durham.....	919-479-5200

OH WKM Assoc Independence.....	216-524-5930
OK Intermec Southwest Okla City.....	405-943-0235
OR Dynamic Systems NW Beaverton.....	503-646-6800
PA Intermec Mid-Atlantic Penlynn.....	215-643-3400
SC W A Brown Columbia.....	803-798-8070
TN W A Brown Oak Ridge.....	615-482-5761
TX Intermec Southwest Richardson.....	214-235-9535
UT Four Corners Technology SLC.....	801-465-7215
WA Dynamic Systems NW Mukilteo.....	206-745-5311
WI Dytec/Central Elm Grove.....	414-784-9686
INTERMETRICS INC 733 CONCORD AVE CAMBRIDGE MA 02138 TWX 710 320 7523.....	617-661-1840
W ZIMMERMAN EMP 620 ENG 75 OVER \$10,000K	
INTERMETRO INDUSTRIES CORP 653 N WASHINGTON ST WILKES-BARRE PA 18705.....	717-825-2741
CA R CROSS EMP 800 ENG 30	
CA N Morris Cerritos.....	213-402-5111
CA R Soulsby San Jose.....	408-554-6028
FL L Johnson Hollywood.....	305-921-1053
GA T Sotack Atlanta.....	404-447-9525
HI E Jenks Kaawaa.....	808-237-8666
IL O Clark Cary.....	312-639-0934
MA B Mann Marble Head.....	617-631-0789
NY InterMetro-New York Fresh Meadows.....	718-961-9222
OH P Milstein Chagrin Falls.....	216-247-3261
TX R Gust Dallas.....	214-247-2065
W Vaughan Glen Allen.....	804-254-3230
WA T Hillan Everett.....	206-775-0033
FR Metropolitan Wire Ltd Mississauga ON.....	416-676-9890
INTERNATIONAL CARBIDE TOOL INC 1348 PLAINFIELD AVE JANESVILLE WI 53545 TWX 957055.....	608-757-0177
C ANDREWS EMP 20 \$5,000-\$10,000K	
INTERNATIONAL COMPONENTS CORP 1740 N MARSHFIELD AV CHICAGO IL 60622 TWX 72-8319.....	312-772-4400
K FERNANDES EMP 100 ENG 20 OVER \$10,000K	
INTERNATIONAL COMPONENTS CORP 105 MAXESS RD MELVILLE NY 11747 TWX 510-224-6409.....	516-293-1500
I OKIN EMP 100 ENG 3 OVER \$10,000K ADV PG 427	
AL EMA Huntsville.....	205-533-6640
AZ Jarko Assoc Phoenix.....	602-243-4387
CA Impact Electronics Anaheim.....	714-533-1351
CA Hickey Sales Redwood City.....	415-368-3849
CT GM Assoc Vernon.....	203-646-4443
FL EMA St Petersburg.....	813-894-1171
GA EMA Roswell.....	404-992-7241
IL M J Peterson & Assoc Arlington Hts.....	312-577-8200
IA Iowa Tech Sales Cedar Rapids.....	319-393-8664
MA G-M Assoc Framingham.....	617-872-4871
MN PSI Mnpls.....	612-944-8545
NJ Winch E Brunswick.....	201-828-4615
NY Metro Tech Sales Jericho.....	516-935-3330
NY Nycorn Inc Syracuse.....	315-437-8343
PA Espy Sales Phila.....	215-576-0780
TX Mech-Tron Mktg Dallas.....	214-437-4833
UT Parker Webster Murray.....	801-266-0030
DISTRIBUTORS	
AZ ACC Phoenix.....	602-279-9446
CA Hi-Cor Redwood City.....	415-365-5087
CA Myco Vickers Canoga Park.....	213-340-2025
CT Pilgrim Electronics Danbury.....	203-792-7274
FL National Resistor Co Ft Lauderdale.....	305-772-4500
MD Axis Elect Gaithersburg.....	301-840-9640
MN Cassidy Elect Mnpls.....	612-835-7746
NJ Triangle Electronics Haddonfield.....	609-354-9450
NJ Vantage Components Nutley.....	201-667-1840
PA Pytronics Inds Montgomeryville.....	215-643-2850
PA Jan Industrial Elect Philadelphia.....	215-WA2-1321
PA Mur Tronics Huntington Valley.....	215-947-9690
PA Sap Electronics Philadelphia.....	215-969-3300
TX C & W Supply Fort Worth.....	817-831-0395
INTERNATIONAL CONFIGURATIONS INC BOX 3374 ENFIELD CT 06082.....	203-749-6380
INTERNATIONAL CONTROL SYSTEMS INC 4000 OLSON MEMORIAL HWY GOLDEN VALLEY MN 55422.....	612-529-4403
C HAGGLUND EMP 4 ENG 1	
INTERNATIONAL CRYSTAL MFG CO INC BOX 26330-701 W SHERIDAN OKLAHOMA CITY OK 73126 TWX 910-831-3177.....	405-236-3741
P DENWALT	
INTERNATIONAL DATA SCIENCES INC 7 WELLINGTON RD LINCOLN RI 02865 TWX 710-384-1911.....	401-333-6200
J MERWEDE EMP 150 ENG 16 \$5,000-\$10,000K	
AL Col-Ins Co Inc Huntsville.....	205-881-6735
AK Transalaska Data Sys Anchorage.....	907-561-1776
AZ Burland Assoc Tempe.....	602-894-5564
CA Data Express Campbell.....	408-371-2788
CA DA/Com Inc San Jose.....	408-998-2588
CO ACC Ltd Englewood.....	303-779-5253
FL Col-Ins-Co Orlando.....	305-423-7615
GA Col-Ins Co Tucker.....	404-491-9395
IL Reliable Data Comm Hickory Hills.....	312-430-2600
IN Carter, McCormick & Pierce Indpls.....	317-244-1685
LA R Wiggins/IDS Stamford.....	203-968-1318
MD Terminal Networks Silver Spring.....	301-649-6000
MA Kimble/IDS Bedford NH.....	603-472-2025

MI	Carter, McCormic & Pierce Farmington Hills	313-477-7700
MO	Digital Systems Sales St Louis	314-843-3588
NE	Digital Systems Sales Grandview	402-346-1039
NJ	TecniMat Englewood	201-569-4200
NY	Comnet Dist Albany	518-452-0052
NC	Col-Ins-Co Raleigh	919-484-4006
OH	Carter, McCormic & Pierce Cleveland	216-779-5100
OK	Data Aids Assoc Edmond	405-478-5000
OR	Data World Supply Portland	503-292-2678
PA	Carter, McCormic & Pierce Pittsburgh	412-372-4415
SC	Col-Ins-Co Greenville	803-235-4643
TN	Col-Ins-Co Knoxville	615-688-6259
TX	Data Aids Assoc Austin	512-327-8600
WA	Data World Supply Kirkland	206-821-4993
WI	Computer & Sys Sales Waukesha	414-544-1141

INTERNATIONAL DATA TECHNOLOGY
1551 NW 65 AVE FT LAUDERDALE
FL 33313 TWX 9109974751 305-587-6823
EMP 10 ENG 2 \$1,000-\$2,500K

INTERNATIONAL DEVICES DIV
PACESETTER ELCTNS 5417
E LA PALMA ANAHEIM CA 92807
TWX 559175 714-777-4711
EMP 33 ENG 4 \$2,500-\$5,000K

DISTRIBUTORS		
AL	Contact Electronics Huntsville	800-633-7200
AZ	Anthem Elect Tempe	602-244-0900
CA	Anthem Elect San Jose	408-946-8000
CA	Cypress Santa Clara	408-727-7080
CA	Newark Elect Inglewood	213-671-7066
CA	Pacesetter Elect Sunnyvale	408-734-5470
CO	Anthem Englewood	303-790-4500
IL	Newark Elect Chicago	312-638-4411
IA	Berquist Cedar Rapids	319-366-8733
MI	Advent Elect Farmington Hills	313-477-1650
MN	NWR Bloomington	612-854-7329
NJ	Newark Elect Springfield	201-376-9500
OH	Traxon Cleveland	216-361-8350
PA	Barbey Elect Reading	215-376-7451
WA	Anthem Elect Redmond	206-881-0850

INTERNATIONAL ELECTRO-MAGNETICS
INC 350 N ERIC DR PALATINE
IL 60067 312-358-4622
A PRETTO EMP 35 ENG 6 \$500-\$1,000K

INTERNATIONAL ELECTRONIC
RESEARCH CORP 135 W MAGNOLIA
BLVD BURBANK CA 91502
TWX 910-498-2206 213-849-2481
R SCHUCKMAN EMP 100 ENG 4 \$5,000-\$10,000K

INTERNATIONAL EYELETS INC
BOX 160 GOLETA CA 93116 805-968-7017
F THOMAS EMP 4
ADV PG 178

INTERNATIONAL HIGH VOLTAGE
ELECTRONICS INC 98 MILL
PLAIN RD DANBURY CT 06810 203-792-7820
A PELLEGRINO EMP 20 ENG 2 \$500-\$1,000K

INTERNATIONAL INSTRUMENTATION INC
31119 VIA COLINAS WESTLAKE
VILLAGE CA 91362 818-991-9614
V REIMERS EMP 48 ENG 8
ADV PG 218

CA International Instrumentation
Thousand Oaks 805-495-7673
NY Jack Brown Elctn Sales
Massapequa 516-795-3903

DISTRIBUTORS		
AL	Coastal Computers Huntsville	205-881-2121
AZ	Jensen Tools Phoenix	602-968-6241
CA	Ingrid's Computer	818-710-9065
CA	Computerland Woodland Hills	818-716-7714
CA	Abbott & Assoc	714-960-2407
CA	Arndt Electronics	415-592-6718
CA	Advanced Computer Systems Van Nuys	818-781-2053
CA	HW Elect Northridge	818-886-9200
CA	FCG Info Norwalk	213-929-8891
CA	Computerland Sherman Oaks	818-783-5021
CA	Computerland Northridge	818-886-5511
CA	Buena Vista Busn Sys Vista	619-758-7557
CA	Computerland Encino	818-990-3233
CA	Grand American Inc Santa Monica	213-450-4900
CA	Barnhisel Assoc Santa Rosa	707-575-0242
CA	Computerland Van Nuys	818-997-1107
CA	Systems Integration W LA	213-479-8554
CA	Software Galleria San Francisco	415-397-6901
CA	Soft-Touch Systems Van Nuys	818-781-4400
CA	Computers & Accessories Campbell	408-371-3542
CA	Comtech Newbury Park	805-499-8084
CA	Basic Computer Solutions Ventura	805-658-0477
FL	Inacom Computers Altamonte	305-831-8668
IL	Joseph Elects Niles	312-297-4200
IL	PC Network Inc Chicago	312-280-0251
KS	Pro Systems Shawnee	913-631-0665
MI	Infinity Inc	313-557-7230
NJ	Lashen Elect 21 Broadway Denville	201-627-3783
NJ	Sintec Co Milford	201-996-4093
NY	Intercontinental Data Sys New York	212-947-7779
PA	Technitool Corp Plymouth Mtg	215-825-4990
TX	Digi-Tex Business Sys Dallas	713-681-3686
TX	PC Delta Houston	713-850-8445
TX	Discovery Software Bastrop	512-321-4406
UT	Computer Services	801-377-2100

INTERNATIONAL INSTRUMENTS		
DIV GEN RESISTANCE INC TWIN LAKE RD BOX 185 NORTH BRANFORD CT 06471		
TX	TWX 710-452-3092	203-481-3450
J JAMIESON EMP 150 ENG 10		
AL	Brandel-Stephens & Co Huntsville	205-883-0445
GA	Brandel-Stephens & Co Atlanta	404-261-7579
KS	Technical Sales Assoc Shawnee Mission	913-888-3330
MN	Yukon Sales Assoc Eden Prairie	612-941-8155
MO	Technical Sales Assoc Ferguson	314-725-5361
NJ	NBS Assoc Berkley Hts	201-464-8500
NC	D G W Inc Charlotte	704-334-7090
OK	Telstar Instrument Tulsa	918-628-1011
OR	Garland Affolter Eng Corp Portland	503-223-7349
PA	Stitzer Assoc Paoli	215-644-5500

DISTRIBUTORS		
AZ	Metermaster Phoenix	602-437-1425
CA	Metermaster Palo Alto	415-968-0313
CA	E I L Inst Los Angeles	213-685-7020
CO	Master Master Inst Denver	303-722-5766
CT	EIL Inst Middletown	203-346-6646
IL	E I L Inst Bridgeview	312-430-2292
IN	E I L Inst Indpls	317-545-1373
LA	Industrial Inst Wks New Orleans	504-733-8355
MD	E I L Inst Sparks	301-771-4800
MA	EIL Inst Burlington	617-272-9450
MI	Ram Meter Ferndale	313-398-6767
NY	EIL Inst Rochester	716-427-8000
OH	E I L Inst Dayton	513-435-2134
TX	EIL Inst Houston	713-271-3100
VA	EIL Inst Virginia Bch	804-499-3746

INTERNATIONAL MANUFACTURING
SERVICES 50 SCHOOLHOUSE LA
PORTSMOUTH RI 02871 401-683-9700
G BENSON EMP 22 ENG 3 \$500-\$1,000K
NJ K & R Engrg Flanders 201-584-5235
PA K & R Engrg Flanders NJ 215-458-8967
FR Antex Attleboro MA 617-222-5221

INTERNATIONAL MICROCIRCUITS INC
3350 SCOTT BLVD BLDG 37
SANTA CLARA CA 95054
TWX 910-338-2032 408-727-2280
S SHIVELY EMP 110 ENG 40 OVER \$10,000K
CA JAN Devices Reseda 818-708-1100
FL EMS Plantation 305-587-7146
MA Boucher Assoc Westford 617-692-7503
MN Mark Johnson Co Mnpls 612-941-8526
NJ Comp-Tech Sales Hasbrouck Hts 201-228-7400
NY Comp-Tech Sales New Hyde Park 516-593-2628
NC United Sales Greensboro 919-674-9849
OH J N Bailey & Assoc Westlake 513-687-1325

INTERNATIONAL MICROELECTRONIC
PRODUCTS 2830 N FIRST ST
SAN JOSE CA 95134
TWX 910-338-2274 408-262-9100
M HOLLABAUGH EMP 300 ENG 75 OVER \$10,000K
AL The Novus Group Huntsville 205-881-2207
AZ System Sales of AZ Tempe 602-966-1654
CA Quadrep Inc San Jose 408-946-4000
CA IMP Garden Grove 714-740-1139
FL Perrotti Assoc Orlando 305-279-7748
GA Novus Group Inc Lilburn 404-381-1015
IL Gassner & Clark Schaumburg 312-882-8608
MD DG Reps Lutherville 301-583-1360
MI Favco Inc Livonia 313-644-0173
MN Northport Engrg Inc St Paul 612-457-8000
NC United Sales Greensboro 919-674-9849
OR Quadra Sales Corp Beaverton 503-626-7815
WA Quadra Sales Corp Redmond 206-883-3550

INTERNATIONAL MICRO INDUSTRIES
BOX 604 CHERRY HILL NJ 08003
TWX 83-4481 609-424-3112
N EMSLUCCI EMP 40 ENG 4 \$1,000-\$2,500K

INTERNATIONAL MICROSYSTEMS INC
11554 C AVE AUBURN CA 95603 916-885-7262
E MCDERMOTT EMP 12 ENG 2 \$1,000-\$2,500K
ADV PG 375

INTERNATIONAL MICROTRONICS CORP
4016 E TENNESSEE ST TUCSON
AZ 85714 TWX 910-952-1170 602-748-7900
J DOUGALL EMP 28 ENG 4 \$1,000-\$2,500K
AL Kemp Instruments Huntsville 205-837-4304
FL Professional Mktrs Altamonte
Sprgs 305-788-2643
GA PAR Assoc Atlanta 404-391-9117
GA Kemp Engineering Atlanta 404-452-8050
IN Alien Nace Co Indpls 317-849-7038
LA R E Owens Inc New Orleans 504-866-5813
MD Massey Assoc Reisterstown 301-833-2039
MA Daner Hayes Wayland 617-655-0888
MN Automated Controls Edina 612-941-4092
OH Alien Nace Co Englewood 513-836-6931
OR Calvert Controls Beaverton 503-222-6473
PA Alien Nace Co Allison Pk 412-487-1217
TX Dynamark Dallas 214-437-3333
WA Applied Controls Lynnwood 206-775-2999
WA Calvert Controls Medical Lake 509-244-3601

DISTRIBUTORS		
CA	Tech-Ser Inc Torrance	213-320-8101
CA	FLW Inc Costa Mesa	714-751-7512
FL	EIL Instrument Palm Bay	305-725-8300
GA	Process Measurement Co Atlanta	404-696-7481
IL	Data Electronics Co Chicago	312-283-0300
KS	Process Measurement Co KC	913-384-2064
LA	Currier & Roster Inc New Orleans	504-734-1147
MA	Calibron Instr Waltham	617-894-6440
MN	Data Electronics Co Plymouth	612-559-1434
NE	Process Msmnt Co Omaha	402-734-2434
NY	Masline Elect Rochester	716-546-5373

NY	Trott Elect Clarence	716-634-8500
NC	Trott Elect Charlotte	704-376-2237
OH	Schlemmer & Assoc Cincinnati	513-522-8340
OK	Process Msmnt Tulsa	918-584-1545
TN	Thermal Equip Sales Co Memphis	901-452-4516
TX	Quality Instrument Lab Houston	713-524-0528
TX	Textrol Inc Dallas	214-484-9961
TX	American Analog Houston	713-941-7265
VA	Meter Metrics Richmond	804-275-1431

INTERNATIONAL MICROWAVE CORP
65 COMMERCE RD STAMFORD
CT 06902 TWX 710-474-0018 203-323-5599
ENG 7 \$2,500-\$5,000K

INTERNATIONAL POWER 350
N LANTANA CAMARILLO CA 93010 805-987-7900
R OSTLUND EMP 25 ENG 3
AL Remco Huntsville 205-533-3763
AZ Thorson Desert States Scottsdale 602-998-2444
CA Atronics El Cajon 619-444-6422
CA Atronics Woodland Hills 818-703-7212
CO Frontier Reps Englewood 303-799-6063
CT OEM Mktg & Sales Guilford 203-453-5424
GA Remco Atlanta 404-447-6937
IL Ed Joyner & Co Wheeling 312-520-1200
IN C C Electronics Indpls 317-255-1508
MA OEM Mktg & Sales Franklin 617-528-4983
MI C C Electronics Pontiac 313-338-7400
MN Johnson Sales Co Mnpls 612-426-1160
NH OEM Mktg & Sales Salem 603-893-0009
NJ Livera-Polk Assoc Madison 201-377-3220
NM Thorson Desert States
Albuquerque 505-293-8555
NY Livera-Polk Assoc Glen Head 516-759-9300
NC Remco Raleigh 919-847-5079
TX Kite Elctns Sales Irving 215-438-9336
WI Componetics Ltd St Laurent PQ 514-334-1464

DISTRIBUTORS		
CA	Cypress Elect San Jose	408-945-8400
CA	Patane Avionics Van Nuys	818-988-4455
CO	Cypress Elect Wheat Ridge	303-431-2622
IL	Klaus Radio Champaign	309-691-4840
IN	Evanline Supply Evansville	812-424-7541
MN	Glenmark Minneapolis	612-941-4825
NH	C & H Elect Hudson	603-882-1133
NY	Rochester Radio Sply Rochester	716-454-7800
OK	Radio Supply Okla City	405-232-6127
TX	Cypress Elect Dallas	214-869-1435
TX	Sunbelt Elect McKinney	214-542-1432
WI	Lakeview Elect Mequon	414-377-8250

INTERNATIONAL RECTIFIER
SEMICONDUCTOR DIV 233
KANSAS ST EL SEGUNDO CA 90245
TWX 910-348-6291 213-772-2000
D PRESCOTT EMP 2200 ENG 200 OVER \$10,000K
ADV PGS 386,478,509
IL Intl Rectifier Wheaton 312-690-7700
MO Intl Rectifier Florissant 314-831-9377
NJ Intl Rectifier Palisades Park 201-943-4554
OH Intl Rectifier Independence 216-447-9717
WI Intl Rectifier Brookfield 414-784-2480

INTERNATIONAL RESOURCE SERVICES
7343 NW 79 TERR MIAMI
FL 33166 TWX 52 2261 305-884-2924

INTERNATIONAL SENSOR SYSTEMS INC
BOX 345 AURORA NE 68818 402-694-6111
C TRUMBLE EMP 30 ENG 4
AZ Spectrum Assoc SW Tempe 602-966-1788
CA Tri-Rep Palo Alto 415-965-1822
CA Van Golt & Assoc Arcadia 818-445-9728
CO Mountain View Mktg Ltd Aurora 303-699-1665
CT LJM Assoc Branford 203-488-4244
FL Southern Elect Sales Jupiter 305-744-0028
IL Esco Assoc Des Plaines 312-298-5310
IN STB & Assoc Indianapolis 317-844-9227
KS DLE Electronics Wichita 316-744-1229
MD Quarterback Sales Lutherville 301-252-6167

INTERNATIONAL THERMAL INSTRUMENT
CO BOX 309 DEL MAR CA 92014 619-755-4436
EMP 6 ENG 6 \$250-\$500K

INTERNATIONAL TRANSDUCER CORP
869 WARD DR SANTA BARBARA
CA 93111 TWX 658-495 805-685-1441
G LIDIARD EMP 65 ENG 8 \$2,500-\$5,000K

INTERNATIONAL WIRE PRODS
CO DIV CARLISLE 500 W MAIN ST
WYCKOFF NJ 07481 TWX 642580 201-891-5800
C ABBOTT EMP 700 ENG 10

INTEROPTICS 770 AIRPORT BLVD
BURLINGAME CA 94010
TWX 910-375-2012 415-347-7727
W OTSUKA EMP 32 ENG 15
CA Wm J Purdy Co Burlingame 415-347-7701
CA Wayne Champa Assoc Santa Ana 714-662-2228
CO Wm J Purdy Co Denver 303-753-6800
FL Pantera Sales Casselberry 305-767-3535
GA Pantera Sales Decatur 404-325-0165
NH Bell Controls Nashua 603-882-6984
NJ Lightcomm Sales Assoc Ho-Ho-Kus 201-447-0126
NM Wm J Purdy Co Albuquerque 505-266-7959
NY Lightcomm Sales Assoc New York 212-807-8924
NC LME Inc High Point 919-869-3335
OK Scientific Devices Okla City 405-235-6012
OR Wm J Purdy Co Beaverton 503-641-9373
TX Scientific Devices Richardson 214-231-8106
UT Wm J Purdy Co S L C 801-486-8557
VA EME IV Inc Williamsburg 804-253-0171
WA Wm J Purdy Co Redmond 206-882-3144

DISTRIBUTORS

IL Newark Electronics Chicago.....312-638-4411

INTERPHASE CORP 2925 MERRELL RD
DALLAS TX 75229 TWX 79-2561.....214-350-9000
J MARSHALL EMP 80 ENG 20INTERSTATE ELECTRONICS CORP
1001 E BALL RD BOX 3117
ANAHEIM CA 92803
TWX 910-591-1197.....714-758-0500
S WING EMP 1975 ENG 475INTERSWITCH DIV WM J PURDY CO
770 AIRPORT BLVD BURLINGAME
CA 94010 TWX 910-374-2353.....415-347-8217
K HOLLA EMP 10 ENG 2 \$1,000-\$2,500KAZ Foley, Tallent & Lee Tempe.....602-894-2345
AR J Y Schoonmaker Co Little Rock.....501-375-2168
CA Berman-Gravley Co Costa Mesa.....714-549-2122
CO Wm J Purdy Co Denver.....303-777-1413
CT Paul R Sturgeon Co Hartford.....203-249-7800
IL Hill-Gray Assoc Elmhurst.....312-832-4101
IN Sukum & Cox Indpls.....317-253-5501
IA M-S-B Assoc Marion.....319-377-6261
KS M-S-B Assoc Shawnee Mission.....313-432-2131
MD S K MacDonald Inc Lisbon.....301-924-5880
MA Sturgeon Needham Hts.....617-444-6603
MI Hilltronics Inc Ferndale.....313-398-5556
MO M-S-B Assoc St Charles.....314-895-4700
NJ Harold J Gray Assoc Englewood.....201-894-0894
NM Wm J Purdy Co Albuquerque.....505-268-7959
NY Paston-Hunter Co Syracuse.....315-437-2843
OK J Y Schoonmaker Co Tulsa.....918-583-0912
OR Wm J Purdy Beaverton.....503-641-9373
PA S K MacDonald Inc Phila.....215-545-1205
TX J Y Schoonmaker Co Dallas.....214-349-1650
WA Wm J Purdy Co Seattle.....206-284-8020
FR A C Simmonds & Sons Ltd
Pickering.....416-839-8041

DISTRIBUTORS

AZ Anjon Entrps Tempe.....602-894-1332
CA Waltronics Santa Clara.....408-727-1200
CA Merit Comps Sply Burbank.....213-842-8162
CA Panel Parts Co Chatsworth.....213-998-5991
CO Ragon-Elect Paris Co Denver.....303-744-3601
FL Peerless Radio Ft Lauderdale.....305-973-4141
MA Land Elec Sply Lynn.....617-592-2220
MN Bergquist Mnpis.....612-835-2322
NJ Powell-Tech Electr Dist
Englewood.....201-894-0800
NY Summit Dist Buffalo.....716-884-3450
NY Summit Elec of Roch Rochester.....716-334-8131
NC Kirkman Elect Winston-Salem.....919-722-9130
OH Hughes-Peters Cinc.....513-351-2000
OH Hughes-Peters Columbus.....614-294-5351
PA Resco Elect Willow Grove.....215-659-4575
WI Taylor Elec Mequon.....414-241-4321INTER-TECHNICAL GROUP INC
BOX 23 ONE BRIDGE ST
IRVINGTON NY 10533
TWX 710-564-0802.....914-591-8822
T GARGANO EMP 22 ENG 4 \$5,000-\$10,000KAL J R Assoc Huntsville.....205-830-2130
CA Engineering Assoc Corp
Santa Clara.....408-988-5001
CO Palmer Assoc Denver.....255-9961
FL C Assoc Altamonte Springs.....305-831-1717
IL W G Brouillette & Assoc
Westchester.....312-345-6500
MA Normell Assoc Newton.....617-969-5478
MI Don Gype Co Shaker Heights.....216-283-5380
MN International Sales Co Mnpis.....612-831-8423
NY Heft & Ficarra Colonia.....201-381-5193
NY BKT Assoc Rochester.....716-586-5814
NY T & K Sales Smithtown.....516-724-3456
NC JR Assoc Lewisville.....919-768-7738
OH Markus Barnett Assoc Dayton.....513-293-6778
OR H Levinson Co Portland.....503-245-1902
TX LPA Sales Richardson.....214-680-9588
UT Alpine Entrps SLC.....801-278-5081
WA Eltron Sales Ltd Front Royal.....703-635-7201
FR H Levinson Co Seattle.....206-285-5622
WA Burke Assoc Ponce PR.....809-840-2444

DISTRIBUTORS

CA ISC Div of RM Elec Santa Clara.....408-496-0411
CA Shelly Elect San Jose.....408-942-9111
FL NRC Electronics Ft Lauderdale.....305-772-4500
FL T C Pridmore Co Indialantic.....305-727-2491
GA Spectrum Elect Norcross.....404-448-1516
IL Advent Elect Rosemont.....312-297-6200
IN Advent Elect Indpls.....317-817-4910
IA Advent Elect Cedar Rapids.....319-363-0221
MA March Elect Ashland.....617-881-6715
MI Advent Elect Farmington Hills.....313-477-1650
MN Chris Elect Dist New Brighton.....612-631-2647
NJ Brothers Elect East Brunswick.....201-238-2200
NY MKM Elect Comp Port Chester.....914-939-3940
NY March Elect West Hempstead.....516-485-4700
PA Advacom Inc McKean.....814-476-7774
PA Alder-Tronics Pittsburgh.....412-821-5565
PA VSH Electronics Exton.....215-363-2250
TX Prime Distr Co Allen.....800-526-7478
WA Kam Electronics Div Seattle.....206-382-1300INTERWORLD ELECTRONICS &
COMPUTER INDUS LTD 1415
WELCH ST NORTH VANCOUVER
BC V7P 1B5 TWX 04-352875.....604-984-4171
A CASSEL EMP 10 ENG 2 \$1,000-\$2,500K
WA Interworld Elect & Comp
Pt Roberts.....604-945-6533
FR Interworld Elect & Comp
Edmonton AB.....403-462-5444INTRATEC DIV BRITISH AEROSPACE
INC BOX 17414 DULLES INTL ARPT
WASHINGTON DC 20041
TWX 89-517.....703-435-9100
G MCCALLUM EMP 120 ENG 10 OVER \$10,000KINTRONICS INC 57 CHAPEL ST
NEWTON MA 02158
TWX 710-335-6835.....617-964-4000
J SWARTZ EMP 155 ENG 7 \$5,000-\$10,000KINVALCO MSMT & CONTROL COMBUSTION
ENGRG INC BOX 556 TULSA
OK 74101 TWX 49-2348.....918-834-5671
C HELLEBUSCH EMP 260 ENG 10 OVER \$10,000K
CA Patten Corp Los Alamitos.....213-598-6688
IL E Johnson Eng & Sales Hinsdale.....312-325-2272
MN SABCO St Paul.....612-636-7634
NY Cascade Control Corp Rochester.....716-385-1410
NC W K Hille Co Matthews.....704-847-9125
OH KKM Ind Sales Cincinnati.....413-871-1413
OK Dave Allert Co Tulsa.....918-743-7705
PA Stanley-Berg Carnegie.....412-923-1911
WI Flow Inc Nashotah.....414-367-1055
FR MacDonald Proc Equip Toronto ON.....416-626-7300IN-X FASTENER CORP 4 EDISON PL
FAIRFIELD NJ 07006 TWX 139200.....201-484-2000
J QUISTORFF EMP 15 ENG 2
CA IN-X Fastener 1270 E Katella AnaheimIOMEGA CORP 4646 S 1500 W OGDEN
UT 84403 TWX 294025.....801-399-2171
R CARLTON EMP 350 ENG 65 \$2,500-\$5,000KION PHYSICS CO DIV HIGH
VOLTAGE ENGRG BOX 416
BURLINGTON MA 01803
TWX 951733.....617-272-2800
EMP 23 ENG 5 \$500-\$1,000KIPSEN CERAMICS 325 JOHN
ST BOX 420 PECATONICA
IL 61063.....815-239-2385
R MCKINLEY EMP 35 ENG 2 \$1,000-\$2,500K
MD Karr Assoc Columbia.....301-461-1866
NY Ogden Indus Sales Buffalo.....716-634-9579
OH Amtec Ind Cleveland.....216-871-2887
TX Manchester & Assocs Dallas.....214-352-8420IRD MECHANALYSIS INC 6150
HUNTLEY RD COLUMBUS OH 43229
TWX 24-5318.....614-885-5376
C KISER EMP 420 ENG 75
CA IRD Mechanalysis Lafayette.....283-2065
CA IRD Mechanalysis Irvine.....759-8941
CO IRD Mechanalysis Denver.....825-6613
GA IRD Mechanalysis Atlanta.....237-4875
IL IRD Mechanalysis Downers Grove.....960-4065
LA IRD Mechanalysis Baton Rouge.....272-0355
MA IRD Mechanalysis Uxbridge.....367-4910
MI IRD Mechanalysis Novi.....349-9343
MO IRD Mechanalysis St Louis.....644-4691
NE IRD Mechanalysis Omaha.....341-2356
NJ IRD Mechanalysis Saddle Brook.....772-0384
NC IRD Mechanalysis Matthews.....364-8665
TX IRD Mechanalysis Glenolden.....461-7080
TX IRD Mechanalysis Houston.....667-0941
WI IRD Mechanalysis Hartford.....542-9271
FR IRD Mechanalysis Stony Creek ON.....662-7577
FR IRD Mechanalysis Calgary AB.....403-264-4130IRONICS INC 798 CASCADILLA ST
ITHACA NY 14850 TWX 705742
S YANUCK EMP 100 ENG 25.....607-277-4060AL Pen Tech Assoc.....205-881-9298
AZ Compware.....602-993-9860
CA Qualtech Assoc.....408-732-4800
CO R2 Systems.....303-455-5360
CT Com-Sale.....203-269-7964
FL Pen Tech Associates.....305-421-4989
GA Pen Tech Assoc.....404-424-1931
IL Computer & System Sales.....312-830-7711
MD Technical Sales Assoc.....301-340-0600
MA Com-Sale.....617-444-8071
MI EQS Systems.....313-961-3042
NH Com-Sale Inc.....603-668-1441
NJ J Wild Inc.....201-839-0071
NY Nycorn.....315-437-8343
NY J J Wild Inc.....516-935-6600
NC Pen-Tech Assoc.....919-852-6000
OH EQS Systems.....216-729-2222
OK Microlog Inc.....918-665-7788
OR Showalter Instruments.....503-629-9244
PA J J Wild Inc.....215-362-7040
TX Microlog Inc.....214-644-5010
UT R2 Systems.....801-595-0631
WA Showalter Instruments.....206-746-7970
WI Computer & System Sales.....414-544-1141IR SCIENTIFIC BOX 110 CARLISLE
MA 01741.....617-667-7110
S SOMMER EMP 10 ENG 3ISKRA ELECTRONICS INC 222
SHERWOOD AVE FARMINGDALE
NY 11735 TWX 221527.....516-753-0400
T BAYDALA EMP 33 \$5,000-\$10,000K
ADV PGS 73,164,406AZ Sunwest Mkt Tempe.....602-838-7586
CA K-Electron LA.....408-942-8282
CA C-K Assoc San Diego.....619-279-0420
CA ISKRA Electronics Santa Clara
Berndt Assoc Chicago.....312-283-0713
IL Berndt Assoc Chicago.....312-283-0713
IN Electro Indpls.....317-894-1414
KS Microtronics.....913-262-1444
MD Muncy Sales Pikesville.....301-484-6376
MA Mutronics.....617-729-1866
NY Schmitt Indl Mktg W Hempstead.....516-486-3510
NC RA Sales Easyly.....803-859-1859PA Electro Rep Lancaster.....717-299-5877
TX EPEC Elctns El Paso.....915-593-8481
UT MAC III Riverton.....801-254-6723ISOCHEM PRODUCTS CO SUB
ROHM & HAAS 99 COOK ST
LINCOLN RI 02865
TWX 710-670-5335.....401-723-2100
D ROBIN EMP 40 ENG 7 \$5,000-\$10,000K
AZ Electrical Specialty Co Phoenix.....602-275-5739
CA Electrical Specialty Co LA.....213-269-9511
CO Electrical Specialty Co Denver.....303-244-4588
NJ Lescon Inc Flemington.....201-782-2242
OR Electrical Specialty Co Portland.....503-227-3601
WA Electrical Specialty Co Seattle.....206-682-3434ISOCOM INC 274E HAMILTON AVE
CAMPBELL CA 95008 TWX 595933.....408-370-2212
N SLEMMER EMP 85 ENG 6 \$2,500-\$5,000K
AZ Mercury Engineering Phoenix.....602-244-0123
CA James S Heaton Co Redwood City.....415-367-9000
CA Reed Elctn Mkt Los Alamitos.....213-598-6676
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CT Lindco Assoc Southbury.....203-264-7200
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IL T-Squared Assoc Palatine.....312-991-2144
IN Technical Reps Columbus.....812-376-9226
KS Delltron Co KC, MO.....816-643-6445
KY G & H Sales Cinc, OH.....513-272-0580
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MA Carlisle Tech Sales Waltham.....617-890-8800
MI R C Nordstrom & Co Southfield.....313-559-7373
MN C & H Technology Eden Prairie.....612-944-5141
MO Delltron Co St Louis.....314-869-4779
NJ C & H Technology Montvale.....201-573-8900
NY Ontec Rochester.....716-464-8636
NC W L Moorhead & Co Charlotte.....415-878-1128
OH G & H Sales Grove City.....503-641-6469
OR A D Electronics Portland.....609-429-1551
TN W L Moorhead & Co Knoxville.....512-331-8922
TX Comptech Sales Austin.....206-821-3205
WA A D Electronics Kirkland.....201-964-6480
FR Weiss Co Ltd Ste Laurent PQ.....514-337-5022

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CA ITT Elect Dist Santa Ana.....916-350-9019
FL All Amer Semiconductors Miami.....305-621-8282
IL Semi Conductor Specialists
Elmhurst.....312-279-1005
IN MAR Electronics Indpls.....317-875-4510
MA JV Elect of Boston Wilmington.....617-273-4300
NY A C I Electronics Plainview.....516-293-6630
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NY Nu-Horizons Farmingdale.....516-694-2500
WI NEP Elect New Berlin.....414-785-9100ISOLANTITE MFG CO INC 337
WARREN AVE STIRLING NJ 07980
M HALL EMP 30 ENG 1 \$500-\$1,000K.....201-647-3333ISOREG CORP BOX 486 LITTLETON
MA 01460 TWX 710-347-6974.....617-486-9483
L WOODS EMP 90 ENG 4 \$5,000-\$10,000K
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CO J F Hurlbut Co Golden.....303-279-7796
FL V & V Assoc Lakeland.....813-646-3733
IL S-V Eng Sales Elmhurst.....312-530-7850
IN Sector Eng Sales Indpls.....317-842-1120
KS Fleming & Co Shawnee Mission.....913-362-7150
MN Sector Eng Sales Bloomington.....612-593-1809
NJ Precision Power Prods Teaneck.....201-691-0655
NY R & G Engineering Rochester.....716-424-7492
NC Jake Rudisill Assoc Charlotte.....704-377-6901
PA Dynamic Controls Pittsburgh.....412-922-7771
VA Ron Weir Alexandria.....703-765-4422
VA Data Power Co Springfield.....703-941-5701
WA Dataworld Supply Kirkland.....206-821-4993
WI Sector Engrg Sales Inc Milwaukee.....414-352-8280

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AK S C I Anchorage.....907-562-4622
AZ Stanco Elec Phoenix.....602-272-5241
AZ Romac Motor & Control Phoenix.....602-437-0760
CA Romac Supply City of Commerce.....213-721-5810
CA Western Scien Mktg San Diego.....619-565-6699
CO Binary Data Denver.....303-698-1800
CT Economy Electric Manchester.....203-647-5000
FL McDonald Dist of FL Ft
Lauderdale.....305-563-1255
IN National Mill Sply Ft Wayne.....219-484-0575
LA Rely Elec Supply New Orleans.....504-897-2211
MA Hansen Electric Framingham.....617-872-4353
MI Allen Electric Livonia.....313-421-9300
MN Voltage Control Mnpis.....612-553-1051
NJ Shore Electric Howell Twp.....201-364-2600
NY Benfield Electric White Plains.....914-948-6660
NC Pen-Tech Assoc Greensboro.....919-852-6000
PA Vector Power Svcs Glenmoore.....215-458-8252
TN Seco Power Systems Memphis.....901-525-5900
TX Single Source Supply Austin.....512-836-4333
VA Executive Productivity
Sys Norfolk.....804-446-2014
WA System Service Seattle.....206-285-9590ISOTEMP RESEARCH INC 1750
BROADWAY ST CHARLOTTESVILLE
VA 22901.....804-295-3101
L TIGNOR EMP 26 ENG 4 \$1,000-\$2,500KISOTRONICS INC IND PARK
NEW BEDFORD MA 02745
TWX 710-344-1961.....617-998-2000
D HANLEY EMP 400 ENG 16

ISOTRON INC 140 SHERMAN ST FAIRFIELD CT 06430 A SAVO EMP 50 ENG 5	203-255-7443
CA G Meals Anaheim OH J Cross Aurora	714-635-1811 216-562-2020
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CA Itel Msmnt Sys 4728 Whitewood Ave Long Beach	213-420-2188
FL Kenneth S Chaney Inc 5821 Riviera Orlando	305-293-5656
IL Marsland Assoc 21 N Broadway Des Plaines	312-298-2620
NJ Msmnt Sys Div 20 Highland Metuchen	201-548-1500 505-523-0601
NM BFA Corp Box 1237 Las Cruces	
ITHACO INC 735 W CLINTON ST BOX 6437 ITHACA NY 14851-8437 TWX 510-255-9307	607-272-7640
C KELLY EMP 125 ENG 25 \$5,000-\$10,000K	
AZ Aztec Enterprises Phoenix	602-944-9185
CA Ichirip Co Sunnyvale	408-737-2220
CO Aztec Enterprises Denver	303-779-5285
CT Jarrod Corp Easton	203-259-6900
GA Pulcr Inc Atlanta	615-483-6358
IL Berndt Assoc Chicago	312-883-0713
IN Berndt Assoc Carmel	317-844-0114
KS Atech Shawnee	913-268-9644
MN Berndt Assoc Mpls	612-546-2021
MO Atech St Louis	314-576-2884
NJ Non-Linear Devices Oakland	201-337-0666
NM Aztec Enterprises Albuquerque	505-262-1688
OH EOS System Chesterland	216-729-2222
OR Scientific Devices NW Portland	503-222-4754
TX Pulcr Inc Oak Ridge	615-483-6358
TX Moore Assoc Richardson	214-690-4929
UT Aztec Enterprises Ogden	801-621-1655
VA WWB Assoc McLean	703-893-6516
WA Scientific Devices NW Bellevue	206-747-5169
WI Berndt Assoc Milwaukee	414-545-8400
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IT ELECTRONICS INC 12 KULICK RD FAIRFIELD NJ 07007-1446 201-882-6405 F BELGHAUS EMP 18 ENG 3 \$1,000-\$2,500K	
ITOH ELECTRONICS INC C 5301 BEETHOVEN ST LOS ANGELES CA 90066 TWX 910-343-7446 213-306-6700 J DEVITA EMP 125	
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NJ Itoh Elctns New Jersey	201-488-2520
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AK Industrial Instr Svcs Kenai	907-283-4230
AZ Aldrich Ind Controls Scottsdale	602-945-8598
CA Bellows Co Oakland	415-658-9011
CA Barton Sales Bakersfield	818-336-4502
CO Scott Equipment Co Wheat Ridge	303-422-4990
CT Flocon Inc Portland	203-342-4840
FL AMJ Equipment Corp Lakeland	813-646-1487
GA AMJ Equip Marietta	404-555-3003
IL Barton Ind Sales Glenwood	312-756-1472
IA Newton Valve Svc Battendorf	319-355-5959
LA ITT Snyder Co Lafayette	318-234-6354
MD Flow Controls Baltimore	301-882-0200
MA Neponset Controls Foxboro	617-543-4801
MI Sample-Webster Livonia	313-464-7500
MN Flo-Systems Co Eden Prairie	612-944-2900
MO C M Tiley Co Maryland Hts	314-878-3353
NE Newton Valve Serv Omaha	402-339-2443
NJ Blake Equip Corp Englewood	201-567-4252
NM Jade Sales & Service Farmington	505-325-6173
NY M S Jacobs & Assoc Batavia	516-344-0102
NY R L Stone Co Syracuse	315-479-7979
NC Fluid Flow Prdts Inc Matthews	704-847-4464
ND Scott Equip Co Williston	701-572-0061
OH M S Jacobs & Assoc North Canton	216-944-5480
OK ITT Snyder Tulsa	918-743-1317
OR Sea-Port Controls Portland	503-283-1950
PA Chem Tech Energy Control Broomall	215-356-9510
TN Fluid Dynamics Germantown	901-682-8238
TX ITT Snyder Co Houston	713-688-6971
UT Control Systems SLC	801-364-6425
VA Flow Controls Inc Richmond	804-271-7227
WA Sea-Port Controls Edmonds	206-775-2580
WV M S Jacobs & Assoc Charleston	304-343-8906

WY Scott Equip Co Casper	307-234-1672
FR ITT Barton Instr Ltd Calgary Alb	403-291-4814
ITT CANNON 10550 TALBERT AVE FOUNTAIN VALLEY CA 92728 TWX 910-997-0523 714-557-4700 EMP 2500 ENG 150	
AL Brandel-Stephens & Co Huntsville	205-883-0445
AZ ITT Cannon Phoenix	602-224-0944
CA ITT Cannon Campbell	408-559-1777
CA ITT Cannon Santa Ana	714-557-4700
CO ITT Cannon Littleton	303-973-8766
CT ITT Cannon New Fairfield	203-746-7160
FL Brandel-Stephens & Co Orlando	305-425-3202
GA Brandel-Stephens & Co Atlanta	404-261-7579
IL ITT Cannon Homewood	312-799-0074
IN ITT Cannon Ft Wayne	219-484-6447
KS ITT Cannon Wichita	316-681-2029
MA ITT Cannon Wakefield	617-254-3707
MI ITT Cannon Sterling Hts	617-463-4620
MN ITT Cannon Mpls	612-854-1973
MO ITT Cannon St Louis	314-739-6040
NH ITT Cannon Henniker	603-428-3883
NY ITT Cannon Poughkeepsie	914-473-3314
NY L-Mar Assoc Rochester	716-323-1000
NC Brandel-Stephens & Co Greensboro	919-274-6952
OH ITT Cannon Kettering	513-434-8181
PA PSA Inc Treves	215-245-0513
TX ITT Cannon Dallas	214-243-2401
WA ITT Cannon Bellevue	206-454-3903
WI ITT Cannon Waukesha	414-544-1018
FR ITT Cannon Canada Whitby ON	416-668-8881

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AZ Time Elec Tempe	602-967-2000
AZ Arrow Elec Tempe	602-968-4800
CA Arrow Elec San Diego	714-565-4800
CA Richey Western Elec Garden Grove	714-895-0060
CA Time Elec Torrance	213-320-0880
CA Time Elec Sunnyvale	415-734-9888
CA Time Elec Anaheim	714-937-0911
CA Time Elec Chatsworth	818-998-7200
CO Arrow Elec Denver	303-758-4585
CO Time Elec of CO Englewood	303-799-8851
CT ASI/Connector Corp Of America Hamden	203-288-0044
CT Arrow Elec Wallingford	203-265-7741
CT Time Elec Cheshire	203-272-1891
FL Time Elec Ft Lauderdale	305-974-4800
FL Arrow Elec Palm Bay	305-725-1480
GA Electro Air Atlanta	404-351-3545
GA Arrow Elec Norcross	404-449-8252
IL Arrow Elec Schaumburg	312-397-3440
IL P E I/Genesis Elmhurst	312-530-2272
IN P E I/Genesis South Bend	219-287-2911
IN Arrow Elec Indianapolis	317-243-9353
IN Genesis Elec Indianapolis	317-637-5571
MD P E I/Genesis Timonium	301-561-5235
MD ASI Elec Baltimore	301-265-5100
MD Arrow Elec Columbia	800-844-ARROW
MD Time Elec Columbia	301-964-3090
MA Arrow Elec Woburn	617-933-8130
MA Time Elec Woburn	617-935-8080
MI Arrow Elec Ann Arbor	313-971-8220
MN Arrow Elec Edina	612-830-1800
MN Time Elec Bloomington	612-944-9192
MO Arrow St Louis	314-567-8888
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NJ Arrow Elec Fairfield	201-575-5300
NJ Arrow Elec Marlton	609-596-8000
NM Arrow Elec Albuquerque	505-243-4566
NY Arrow Elec Hauppauge	516-231-1000
NY Summit Distb Buffalo	716-884-3450
NY Time Elec Hauppauge	516-273-0100
NY Arrow Elec Rochester	716-275-0300
NY Arrow Elec Liverpool	315-652-1000
NY Arrow Elec Hawpauge	516-231-1000
NC Arrow Elec Raleigh	919-876-3132
NC Arrow Elec Winston-Salem	919-725-8711
OH Arrow Elec Centerville	435-5563
OH Arrow Elec Solon	216-248-3990
OK Genesis Tulsa	918-622-8520
OK Arrow Elec Tulsa	918-665-7700
OR Almac Elec Beaverton	503-641-9070
OR Time Elec Portland	503-684-3700
PA Time/Mid-Atlantic Broomall	215-359-1200
PA P E I/Genesis Phila	215-568-7400
PA Henwarr Westminster	215-675-4104
PA Arrow Elec Monroeville	412-856-7000
TX Harrison Equip Stafford	713-879-2600
TX Arrow Elec Austin	512-835-4180
TX Arrow Elec Dallas	214-386-7500
TX Arrow Elec Houston	713-530-4700
TX Time Elec Dallas	214-385-0566
UT Arrow Elec S L C	801-539-1135
WA Time Elec Bellevue	206-641-3640
WA Almac Elec Bellevue	206-643-9992
WA Time Elec Bellevue	206-641-3640
WI Arrow Elec Bellevue	206-643-4800
WI Arrow Elec Oak Creek	414-764-6600
FR L A Varah Ltd Vancouver BC	604-873-3211
FR Carsten Elec Scarborough ON	416-751-2371
FR Electro Sonic Ind Sales Willowdale ON	416-494-1666 416-445-2340

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AZ EDP & Assoc Scottsdale	602-991-6119
CA Caltron Comps Mt View	415-964-3244
CA English/Damco Laguna	714-837-3801
CO Cluff Assoc Denver	303-425-6604
CT Data Mark Guilford	203-453-0575
FL Brandel-Stephens Orlando	305-425-3202
GA Brandel-Stephens Atlanta	404-261-7579
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IN M/S Sales Ft Wayne	
KS Thunderbird Tech Sales Wichita	316-684-3541
MD Tri-Mark Glen Burnie	301-761-6000
MA KSA of New Eng Southboro	617-485-9432
MI SAI Marketing Brighton	313-227-1786
MN SAI Marketing Mpls	612-935-0777
MO Thunderbird Tech Sales Maryland Hts	314-567-6488
NY Win-Cor Elctns Sales Corp Manhasset	516-627-9474 602-894-9251
NY D L Eiss Assoc Rochester	
NC Brandel-Stephens Greensboro	919-274-6952
OK Norcom Tulsa	918-832-7747
OR Jas J Backer Co Portland	503-257-8744
PA EII Sales Prospect Pk	215-534-3340
TX Norcom Inc Dallas	214-386-4888
UT Cluff Assoc SLC	801-486-7297
WA Jas J Backer Co Seattle	206-285-1300

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AZ Time Elec Tempe	602-967-2000
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CA Shelley Ragon Chatsworth	818-998-333
CA Integrated Electronics Irvine	714-660-1055
CA Q C Components Chatsworth	818-700-2622
CA Casco Sales Sunnyvale	408-734-3020
CA Richey Western Elec Santa Clara	408-727-7411
CA Shelley Ragon San Diego	619-453-7133
CA Richey Western Elec San Diego	619-271-4511
CA Richey Western Elec LA	213-820-3777
CA Integrated Elec Chatsworth	213-998-2200
CA Master Distributors LA	213-452-1229
CA Distributor Specialists Santa Monica	213-393-9666
CA Time Electronic Anaheim	714-937-0911
CA Time Elec/Norcal Sunnyvale	408-734-9888
CA Distel Westlake Village	805-495-9998
CA Time Elec Chatsworth	818-998-7200
CO Integrated Electronics Denver	303-292-6121
CO Time Elec Englewood	303-850-7701
CO Shelley Ragon Boulder	303-583-2200
CT Time Elec Cheshire	203-271-3200
CT J V Electronics East Haven	203-469-2321
CT Greene Shaw Co New Haven	203-397-0170
FL ARCO Distributors Davie	305-473-2550
FL NRC Electronics Ft Lauderdale	305-772-4500
FL Time Elec Ft Lauderdale	305-974-4800
FL Time Elec Orlando	305-841-6565
GA Prehler Atlanta	404-447-5540
IL NEP Electronics Chicago	312-625-8400
IL Repron Elec Arlington Hts	312-593-7070
IL Integrated Elec Hoffman Estates	312-843-2040
IL Prehler Elec Chicago	312-384-6100
MD Resco/Balt White Marsh	301-529-0500
MD Treko Sales Inc Beltsville	301-937-8260
MD Resco/Wash Beltsville	301-937-9100
MD Time Elec Columbia	301-964-3090
MA Green Shaw Co Newton	617-969-8900
MA Impact Electronics Canton	617-821-1500
MA R C Components Wilmington	617-273-1860
MA TLC Burlington	617-273-0140
MA Time Elec Woburn	617-935-8080
MI Repron Electronics Livonia	313-525-2700
MI Prehler Elec Farmington Hills	313-473-7200
MN Industrial Components Inc Mpls	612-831-2666
MN Time Elec Bloomington	612-944-9192
MO Time Elctcs/Mid West St Louis	314-391-6444
NV Kiesub Elec Las Vegas	702-733-3888
NJ Tonar Industries Whippany	201-884-1400
NM International Electronics Albuquerque	505-345-8127
NM Betatron Electronics Albuquerque	505-344-2381
NY Time Elec Hauppauge	516-273-0100
OH Repron Electronics Columbus	614-436-6675
OH Prehler Elec Cleveland	216-243-5510
OK Altair Co Tulsa	918-252-5781
OR Zepher Ragon Wilsonville	503-582-2929
OR Time Elec Portland	503-684-3700
PA Time Elec/Mid Atlantic Broomall	215-359-1200
PA Tri-Com Essington	215-521-3080
TX Altair Co Richardson	214-231-5166
TX Era Electronics El Paso	915-778-9761
TX Quality Components Addison	214-733-4030
TX Quality Components Houston	713-491-2255
TX Quality Components Austin	512-835-0220
TX International Electronics El Paso	915-598-3406
TX Altair Co Houston	713-462-3029
TX Time Elec Dallas	214-385-0566
UT Integrated Elec No Salt Lake	801-298-1989
WA Zepher Ragon Seattle	206-241-1980
WA Integrated Electronics Bellevue	206-455-2727



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 WI NEP Elect New Berlin..... 414-785-9100

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 TWX 710-989-1479..... 201-284-0123
 G BOMBAY EMP 1500 ENG 400

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 CA ITT Electron Technology San Jose..... 408-287-6677
 FR ITT Electron Technology
 Downsview ON..... 416-630-7971

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 TWX 910-495-1787..... 213-988-2600
 R MCBRIDE EMP 2100 ENG 300 OVER \$10,000K
 DC ITT Gilfillan Washington..... 202 296-6000

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 CA 91766 TWX 910-581-3822..... 714-623-3463
 S CHRISTMAN EMP 150 ENG 3

AL South Eastern Assoc Madison..... 205-772-9616
 AZ More Sales Phoenix..... 602-274-4558
 CA Engineering Assoc Santa Clara..... 408-988-5001
 CA Paul Nurches Co Pasadena..... 818-681-8957
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 MN Hei-Lite Sales Mnpls..... 612-861-6051
 MO Nevo Inc North Kc..... 816-421-1751
 NJ D F Tobias & Co Belleville..... 201-751-8680
 PA David S Linz Inc Philadelphia..... 215-379-0734
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 N 21 Av Phoenix..... 602-253-1141
 CA H & J Sales Co 161 A Starlite
 So San Fran..... 415-873-6750

CO Steve O' Kane Assoc 1600
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 CT Harby Assoc Inc Box 308
 Northford..... 203-484-0475

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 NW 64 St Miami..... 305-592-7340
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 Dr Irving..... 214-438-4202

WA Jack Hozack Inc 9243 10
 Av S Seattle..... 206-762-6760

ITT SCHADOW INC 8081 WALLACE RD
 EDEN PRAIRIE MN 55344
 TWX 910-576-2469..... 612-934-4400
 S MORK EMP 150 ENG 10 OVER \$10,000K

AL Brandel Stephens Box 4131
 Huntsville..... 205-883-0445
 AZ Sheffer-Kahn Phoenix..... 602-257-9015

CA Caltron Comps Mt View..... 415-964-3244
 CA Ed Landa Co LA..... 213-879-0770
 CO Component Product Sales Boulder..... 303-530-2800

CT Ray Perron Farmington..... 203-673-4825
 FL Brandel-Stephens Deerfield Beach..... 305-427-8558
 FL Brandel-Stephens Orlando..... 305-425-3202

GA Brandel-Stephens Atlanta..... 404-261-7579
 IL IRI Skokie..... 312-967-8430
 IN ASC Indpls..... 317-545-6441

IA PMR Corp Cedar Rapids..... 319-362-9177
 KS PMR Corp Overland Pk..... 913-381-0004
 KY KW Electr Sales Louisville..... 502-451-1860

MA Ray Perron & Co Needham..... 617-449-6162
 MI R C Nordstrom & Co Lathrup Vlg..... 313-559-7373
 MN Monroe/Hanna Edina..... 612-925-5700

MO PMR Corp Maryland Hts..... 314-569-1200
 NH Ray Perron Bedford..... 603-472-3030
 NY Reagan/Compar New York..... 518-489-4777

NY Grimm Siegel Assoc West Caldwell..... 201-575-9300
 NC Brandel-Stephens Greensboro..... 919-274-6952
 OH K W Electronic Sales Dayton..... 513-890-2150

OR JAS J Backer Co Portland..... 503-362-0717
 PA PSA Inc Treviso..... 215-245-0513
 TX W Pat Fralia Co Bedford..... 817-267-3577

WA Jas J Backer Co Seattle..... 206-285-1300
 WI IRI Milwaukee

DISTRIBUTORS
 AL Hall-Mark Electronics Huntsville..... 205-837-8700
 AZ Time Electronics/AZ Tempe..... 602-967-2000

CA Richey/Western Elect LA..... 213-820-3777
 CA Richey/Western Elect San Diego..... 714-565-4444
 CA Richey/Western Elect Santa Clara..... 408-727-7411

CA Richey/Western Elect Sun Valley..... 213-768-3800
 CA Time Electronics-NOR/CAL
 Sunnyvale..... 408-734-9888

CA Eric Electronics San Jose..... 408-262-1111
 CO Integrated Elect Denver..... 303-292-6121
 CT Sager Elec Supply Wallingford..... 203-265-4600

FL Hall-Mark Elec Ft Lauderdale..... 305-971-9280
 FL Hall-Mark Electronics Orlando..... 305-855-4020
 FL Hall-Mark Elec St Petersburg..... 813-576-8691

FL Time Electronics/FL Ft
 Lauderdale..... 305-974-4800
 IL Hall-Mark Elec Bensenville..... 312-860-3800

IL R M Electronics Lombard..... 312-932-5150
 IL Sub-Sem Inc Crystal Lake..... 312-782-3954
 IN R M Electronics Indpls..... 317-247-9701

IA Berquist Co Cedar Rapids..... 319-366-8733
 KS RSC Electronics Wichita..... 316-267-5216
 MD Trecko Sales Beltsville..... 301-937-8260

MD Hall-Mark Electronics Baltimore..... 301-796-9300
 MA Impact Sales Canton..... 617-821-1500
 MA Sager Elec Supply Hingham..... 617-749-6700

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 MN Berquist Co Mpls..... 612-835-2322
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 MO Time Mid/West St Louis..... 314-391-6444
 NJ Hall-Mark Elec Cherry Hill..... 609-424-7300

NY Peerless Radio Lynbrook..... 516-593-2121
 NY Modutec Corp Rochester..... 716-424-1620
 NY Summit Distributors Buffalo..... 716-884-3450

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 OH Schuster/Cleve Twinsburg..... 216-425-8134
 OH Hall-Mark Elec Westerville..... 614-891-4555

OH Hall-Mark Elec Highland Hts..... 216-473-2907
 OH Schuster Electric Co Cincinnati..... 513-489-1400
 OK Hall-Mark Electronics Tulsa..... 918-665-3200

PA Phila Electronics Phila..... 215-568-7400
 PA Time Mid-Atlantic Broomall..... 215-359-1200
 TX Southwest Electronics Stafford..... 713-491-4900

TX Hall-Mark Electronics Austin..... 512-258-8848
 TX Hall-Mark Electronics Dallas..... 214-341-1147
 TX Hall-Mark Electronics Houston..... 713-781-6100

TX Southwest Electronics Austin..... 512-837-8971
 TX Southwest Electronics Richardson..... 214-234-3050
 WA Almac Electronics Bellevue..... 206-643-9992

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 LAWRENCE MA 01841
 TWX 710-342-1357..... 617-688-1881
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CA ITT Semiconductors Tustin..... 714-730-0682
 IL ITT Semiconductors S Barrington..... 312-551-9000

DISTRIBUTORS
 CA Hamilton/Avnet Elect Culver City..... 213-558-2892
 CA Kierulff Elect Cypress..... 714-220-6300

CA I E C Denver..... 303-292-5537
 CO Green Shaw Co Newton..... 617-969-8900
 MI Reptron Elect Livonia..... 313-525-2700

MN Semiconductors Specialists
 Bloomington..... 612-854-8841
 NY A C I Elect Plainview..... 516-293-6630

NY Summit Electronics Buffalo..... 716-884-3450
 FR ITT Components Downsview ON..... 416-630-8118

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 PARK RD CHICAGO IL 60634
 TWX 910-221-0275..... 312-282-4040
 A STEINER EMP 300 ENG 14

AL Electro Mech Sales Engrg
 Co Huntsville..... 205-533-2100
 CA McKnight Co San Jose..... 408-942-0880

CO Hing Plains Mktg Englewood..... 303-792-2020
 FL Semitronic Assoc Altamonte Sprgs..... 305-831-8233
 GA Electro Mech Sales Engrg Atlanta..... 404-447-6478

KS BC Elctn Sales Wichita..... 316-722-0104
 MA Kitchens & Kutchen Burlington..... 617-229-8600
 MN Comstrand Inc Mnpls..... 612-788-9234

MO BC Elctn Sales Bridgeton..... 314-291-1101
 NJ Varrelman-Gorman Florham Park..... 201-822-9615
 NY Fountain-Young & Co Syracuse..... 315-437-7733

NC Electro Mech Sales Engrg Raleigh..... 919-851-8161
 OH Rockford Controls OH Dayton..... 513-898-5451
 OR Eclipse Marketing Beaverton..... 503-642-1661

PA Precision Mktg Group Oreland..... 215-233-9233
 TX Electra Repts Dallas..... 214-387-3594
 WA Eclipse Marketing Redmond..... 206-885-6991

DISTRIBUTORS
 CA Harper SID Santa Clara..... 408-988-6041
 CA Powell Elect San Jose..... 408-943-9020

CA Electric Switches L A..... 213-660-1310
 CA Richey Elect LA..... 213-820-3777
 CA Harper SID San Jose..... 714-560-8545

CA Aero Flite Entrys Brea..... 714-773-4251
 CO CSID Denver..... 303-292-9594
 CT L E Whelan Co Hartford..... 203-246-5694

FL Electronic Equip Miami..... 305-871-3500
 FL Zelcon Oakland Pk..... 305-565-2555
 IL Newark Elect Chicago..... 312-784-5100

IN RM Electronics Indpls..... 317-291-7110
 KS Radio Sply Co Wichita..... 316-267-5214
 MD Marine Air Supply Kensington..... 301-949-9560

MA A W Mayer Billerica..... 617-229-2255
 MI R M Electronics Grand Rapids..... 616-531-9300
 MN Joel Co Hopkins..... 612-935-6202

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 NY ASI Elect Endwell..... 607-754-3823
 NY Summit Distb Buffalo..... 716-884-3450

NY IRI Elect Farmingdale..... 516-420-8400
 NC Kirkman Elect Winston-Salem..... 919-722-9131
 OH Akron Elect Sply Akron..... 216-762-8818

PA Barno Radio McKeesport..... 412-751-5966
 PA Pytronics Ind Montgomeryville..... 215-643-2850
 TX Lenert Co Houston..... 713-225-1465

TX Fisher Brownell Richardson..... 214-235-3177
 WA Bell Industries Bellevue..... 206-747-1515
 WI Electronic Expeditors Milw..... 414-228-8100

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 MA 02359 TWX 710-345-0179..... 617-826-3195
 G MACKERTICH EMP 23 ENG 5

IVO INDUSTRIES INC 201
 INDUSTRIAL WAY W EATONTOWN
 NJ 07724 TWX 132-414..... 201-542-5151
 D VAN NOTE EMP 20 ENG 4 \$1,000-\$2,500K

CA Sierra Pacific Engr Tustin..... 714-731-3411
 IL Jim Laganowski & Assoc
 Buffalo Grove..... 312-520-0130

OH Electronic Salesmasters
 Beachwood..... 216-831-9555

DISTRIBUTORS
 CA Consolidated Parts San Jose..... 408-263-9521
 CA Stove Plumbers Sup Oakland..... 415-444-1143

CA Master Dist Santa Monica..... 313-829-4665
 CA Sibbald Instr Agoura..... 213-991-3864
 CA Electrical Power & Controls
 Redondo Bch..... 213-772-8890

CO Consolidated Parts Denver..... 303-623-5313
 FL A A Elec Lakeland..... 813-665-6941
 GA A A Elec Norcross..... 404-449-8670

IL Martec Assoc Elk Grove..... 312-956-8090
 MD Kraft Elec Sales Towson..... 301-828-5838
 MI E & E Eng Detroit..... 313-371-2000

MN Power/Mation Div St Paul..... 612-645-0788
 NJ AA Electric E Rutherford..... 201-777-5477
 NJ Neptune Electronics Parlin..... 201-721-2222

NY Trott Elect Clarence..... 716-634-8500
 NC Scott Equipment Huntersville..... 704-875-1611
 PA Fuller Int Wilkinsburg..... 412-241-6789

PA Barbey Elect Reading..... 215-376-7451
 PA I/O Elec Supply Co Conshohocken..... 215-825-4610
 SC Automation Supply Co Greenville..... 800-845-5274

TX Dallas Inst Dallas..... 214-349-1180
 TX Barry Sales Richardson..... 214-234-0255
 WI Power/Mation Waukesha..... 414-542-2868

IWATSU INSTRUMENTS INC
 430 COMMERCE BLVD CARLSTADT
 NJ 07072..... 201-935-5220
 A OROFF EMP 20 ENG 3
 ADV PG 310

CA Advanced Digital Group
 Garden Grove..... 213-598-9645
 CA Ichirep Co Sunnyvale..... 408-737-2220

CO Connors Company Broomfield..... 303-466-9628
 IL Commodore-I Rolling Meadows..... 312-394-5441
 MD Sel-Tronics Silver Spring..... 301-589-3391



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NY	HLM Assoc Northport	516-575-1606
OH	KRW Sales Westlake	216-871-7521
FR	Allan Crawford Assoc Ltd	
	Mississauga ON	416-890-2010
FR	HLM Assoc Guayama	809-722-2196

DISTRIBUTORS

AL	Marshall Indus Huntsville	205-881-9235
AZ	Marshall Industries Tempe	602-894-2188
AZ	Electronic Parts Co Phoenix	602-277-7281
CA	Rag Electronics Canoga Pk	213-998-6500
CA	Ames Supply Co San Francisco	800-622-0729
CA	Rep Inc Fremont	415-651-4131
CA	US Instrument Rental San Mateo	415-572-6686
CA	Instrument Engineer San Diego	619-268-8344
CA	Palomar Elctn Products Oceanside	619-439-7541
CA	R & D Elctns Supply Anaheim	714-773-0240
CA	Testek Corp Van Nuys	818-786-6890
CA	US Instrument Rental Burbank	213-849-5861
CA	Marshall Indus Milpitas	408-943-4700
CA	Marshall Indus El Monte	818-442-7204
CA	Marshall Indus San Diego	619-578-9606
CO	Ames Supply Co Denver	303-534-3531
CO	Instrument Repair Labs	
	Broomfield	303-469-5375
CO	US Instrument Rental Englewood	303-790-0523
CO	Marshall Indus Denver	303-427-1800
CT	Connecticut Calibration Monroe	203-261-9518
CT	Marshall Indus Wallingford	203-265-3822
FL	Ames Supply Co Miami	800-432-8975
FL	Kapital Instr Sales S Daytona	904-257-4334
FL	Nurmi Elctn Supply W Palm Beach	305-686-8553
FL	Marshall Indus Ft. Lauderdale	305-928-0661
GA	Ames Supply Co Chamblee	800-282-0450
GA	Marshall Indus Norcross	404-925-1895
IL	Ames Supply Co Downers Grove	800-942-1596
IL	US Instrument Rental Inverness	312-991-9770
IL	Marshall Indus Schaumburg	312-490-0755
IN	Marshall Indus Indpls	317-297-0483
KS	Marshall Indus Lenexa	913-492-3121
MD	US Instrument Rental	
	Gaithersburg	301-258-9888
MD	Marshall Indus Gaithersburg	301-840-0228
MA	Hayes Instrument Svc Billerica	617-663-4800
MA	AST Servo Systems N Billerica	617-667-8541
MA	Calibron Instruments Waltham	617-894-6440
MA	Marshall Indus Burlington	617-272-8200
MI	Ames Supply Co Livonia	313-525-1090
MI	Programmed Learning Resources	
	Royal Oak	313-549-3936
MI	Marshall Indus Livonia	313-525-5850
MN	Tonka Tech Labs Mnpls	612-593-1770
MN	Marshall Indus Plymouth	612-559-2255
MO	Ames Supply Co Kansas City	816-421-8250
MO	Industrial Service Lab	
	Corp St Louis	314-535-5760
MO	Industrial Service Lab Corp KC	816-333-6569
NJ	Ames Supply Co Wyckoff	201-891-9560
NJ	Hosica Newfoundland	201-697-6111
NJ	US Instrument Rental Edison	201-494-1500
NJ	Marshall Indus Fairfield	210-882-0169
NJ	Marshall Indus Mt. Laurel	609-778-8720
NM	Electronic Parts Co Albuquerque	505-293-6161
NM	Electronic Parts Co Las Cruces	505-523-4578
NY	Instrument Mart Great Neck	516-487-7430
NY	Caltronix Inc Rochester	716-359-3780
NY	Exphil Calibration Melville	516-694-5755
NY	Kapital Instr Sales Frankfort	315-894-4245
NY	Marshall Indus Hauppauge	516-273-1515
NY	Marshall Indus Johnson City	607-729-4351
NY	Marshall Indus Rochester	716-427-2340
NC	EMIS Pineville	704-588-4624
NC	Marshall Indus Raleigh	919-876-7383
OH	Marshall Indus Solon	216-248-1788
OH	Marshall Indus Dayton	513-236-8112
OH	Huston-DePue Labs Okla City	405-235-5469
OR	Sunshine Instrument Philadelphia	215-673-5600
OR	Marshall Indus Beaverton	503-643-5555
PA	Sunshine Instrument Philadelphia	215-673-5600
PA	Marshall Indus Pittsburg	412-963-0441
TX	Ames Supply Co Dallas	800-442-4429
TX	Central Instr Labs Richardson	214-234-3600
TX	Galtronics Inc Austin	512-837-7470
TX	Houston Whse Elctns Inc Houston	713-644-8320
TX	Hutton Co Dallas	214-484-0580
TX	Tinkertronics Inc Austin	512-926-4420
TX	US Instr Rental Richardson	214-234-3392
TX	Marshall Indus Dallas	214-233-7650
UT	Marshall Indus Houston	713-789-9300
VA	Electric Equipment Bank Vienna	800-738-3350
VA	Ames Supply Co Fairfax	800-572-2053
VA	Chesapeake Systems Chesterfield	804-271-7725
WA	Vanguard Elctn Tool Redmond	206-823-4111
WA	Marshall Indus Bellevue	206-641-6800
WI	Schrenk Sales Madison	608-255-7400
WI	Marshall Indus Brookfield	414-797-8400

JACO MFG CO 468 GEIGER ST BERE A	
OH 44017	216-234-4000

JAE ELECTRONICS INC 1901A	
E CARNEGIE AVE SANTA ANA	
CA 92705	714-250-8770

JAICO PRODUCTS JAIDINGER MFG CO	
1921 W HUBBARD ST CHICAGO	
IL 60622	312-421-1090
J JAIDINGER EMP 25 ENG 2 \$250-\$500K	
MA Bordewick Eng Sales Norwell	617-659-4915

JAMESBURY CORP 640 LINCOLN ST	
WORCESTER MA 01605	
TX 710-340-1268	617-852-0200
C RICHARDSON EMP 1150 ENG 40 OVER \$10,000K	

AL	Jamesbury Corp Pleasant Grove	205-787-1429
CA	Jamesbury Corp Santa Monica	213-394-8336
CA	Jamesbury Corp San Rafael	415-456-1420
CA	Jamesbury Corp Los Angeles	213-202-0464
FL	Jamesbury Corp Jacksonville	904-768-0411
GA	Jamesbury Corp Marietta	404-971-5488
IL	Jamesbury Corp Schaumburg	312-490-1770
KY	Jamesbury Corp Louisville	502-556-6775
LA	Jamesbury Corp Baton Rouge	504-293-0672
MA	Jamesbury Corp Northborough	617-393-7503
MI	Jamesbury Corp Southfield	313-353-2666
MO	Jamesbury Corp KC	816-932-1379
NJ	Jamesbury Corp Union	201-688-5212
NY	Jamesbury Corp Liverpool	315-472-8728
NY	Jamesbury Corp Syracuse	315-472-8728
NC	Jamesbury Corp Matthews	704-364-1031
OH	Jamesbury Corp Tallmadge	216-242-7252
PA	Jamesbury Corp Pittsburgh	412-241-2736
TX	Jamesbury Corp Houston	713-591-1288
VA	Jamesbury Corp Midlothian	804-744-2397
WA	Jamesbury Corp Vancouver	206-693-1456
WI	Jamesbury Corp Pewaukee	414-344-3338
FR	Jamesbury Congolia Ltd Ottawa ON	

JAMES ELECTRONICS INC 4050	
N ROCKWELL ST CHICAGO	
IL 60618 TWX 910-221-5034	312-463-6500
R BANTNER EMP 175 ENG 10 OVER \$10,000K	

AL	Macro Mktg Huntsville	205-883-9630
CA	Magtronics Inc San Jose	408-996-9757
CA	Davis & Assoc Fullerton	714-870-4561
CT	Barton Assoc Glastonbury	203-633-9417
FL	J E McCauley Ft Lauderdale	305-523-3833
FL	Jack L Easley & Assoc Evanston	312-866-9075
MD	J A Maguire & Co Hanover	301-796-0970
MA	Barton Assoc Salem	617-475-4310
NJ	J A Maguire & Co Pennsauken	609-685-5136
NJ	J A Maguire & Co Dunellen	201-752-8480
NY	Nel Sales Co Fairport	716-487-4538
OH	Dynel Co Dayton	513-434-6467
TX	Jim Hughes Co Lewisville	214-221-1536
VA	J A Maguire & Co Portsmouth	804-398-0202
WA	Rep-West Seattle	206-283-8351

JANCO CORP 3111 WINONA	
AV BOX 3038 BURBANK CA 91504	
TX 910-498-2701	818-846-1800
S KAY JR EMP 210 ENG 8 \$5,000-\$10,000K	
ADV PG 450	

AZ	Piper Sales Tempe	602-949-0048
CA	Quatronics San Diego	602-949-0048
CA	Codella Mktg Group Cupertino	408-257-2561
CO	Piper Sales Longmont	303-651-2378
FL	Mackay Smith & Assoc Orlando	305-423-4353
FL	Mackay Smith & Assoc Madeira Bch	813-530-1873
GA	Mackay Smith & Assoc Norcross	404-449-7444
IL	Vikeland Sales Inc Addison	312-832-8425
IN	Aktron Corp Fort Wayne	219-747-3650
KS	Thunderbird Tech Sales Wichita	316-684-3941
KS	Thunderbird Tech Sales Leawood	913-642-7220
LA	Kruvand Assoc Houston TX	713-780-9710
MD	H R Sieber Co Silver Spring	301-681-3770
MA	TMP Assoc W Haven CT	203-932-3115
MN	Cahill Schmitt Cahill St Paul	612-646-7217
MO	Thunderbird Tech Sales	
	Maryland Hts	314-567-6488
NY	Quality Components Cherry Hill	609-428-6266
NJ	Charles Ward Albertson	516-742-5561
NC	Mackay Smith Assoc Charlotte	704-372-1188
TX	Kruvand Assoc Austin	512-441-6777
TX	Kruvand Assoc Houston	713-780-9710
UT	Piper Sales Co SLC	801-466-9336
WA	Norwest Co Seattle	206-827-8562
FR	Reptonics Nepean ON	613-828-9274

DISTRIBUTORS

CA	Merit Comp Supply Burbank	818-842-8162
CA	Tech-Cable Prods Westlake Vlg	213-991-4697

JAN HARDWARE MFG CO INC	
47-27 36TH ST LONG ISLAND	
CITY NY 11101	212-361-0800

I WASSERMAN EMP 60 ENG 3 \$2,500-\$5,000K		
AZ	Steve Fisher Assoc Phoenix	602-247-7865
CA	Robt Scott Co Chula Vista	714-420-6446
CA	Long Assoc Menlo Pk	415-327-1306
FL	Custom Assy Inc Seminole	313-973-8302
IL	Croydon Elctns Schaumburg	312-980-6766
MD	Naudain Assoc Southern Woodbine	301-442-2270
MA	Harman Assoc Brookline	617-232-6687

MN	AIM Golden Valley	612-542-8437
MO	Nevco No KC	816-421-1751
NJ	Harold Gray Assoc Englewood	201-894-0894
OH	F L Ohmer & Assoc Dayton	513-434-1454
PA	Naudin Assoc Marlton	609-983-5808
TX	AGM Sals Co Richardson	214-644-1475

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CORP 4200 SURFACE RD COLUMBUS		
OH 43228 TWX 810-482-1622.....614-276-3561		
E SCHWARTZ EMP 400 ENG 35 OVER \$10,000K		
CA	Janitrol Aero Div Sun Valley.....	213-283-0211
CT	Janitrol Aero Div Plymouth.....	203-283-0211
KS	Janitrol Aero Div Wichita.....	316-685-5324
TX	Janitrol Aero Div Bedford.....	817-282-5012
WA	Janitrol Aero Div Bellevue.....	206-453-0595

JAPANESE PRODUCTS CORP		
7 WESTCHESTER PLAZA ELMSFORD		
NY	10523 TWX 13-1581	914-592-8880
D CASSALIA EMP 9 ENG 3 \$500-\$1,000K		
CA	Halbar Assoc Glendale	213-246-8263
CO	Integrated Motion Sys Inc	
	Englewood	303-762-1817
FL	Wernli Cooke Assoc Orlando	305-851-1923
IL	Sumner Inc Rolling Meadows	312-991-8500
MA	Forbes Engrg Salem	617-744-1693
MI	APJ Assoc Brighton	313-229-6550
NY	Motion Control Sales Syosset	516-921-5656
OH	Exonic Sys Inc Chargin Falls	216-247-4788
OR	Halbar Assoc Aloha	206-696-0170
PA	Kiley Electric Co Exton	215-363-8550
SC	Hilco Inc Mt Pleasant	803-884-8500
TX	Automated Motion Control	
	Inc Dallas	214-340-4192
WA	Halbar Assoc Redmond	206-882-0990
WI	Sumner Inc Brookfield	414-784-6641

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CA	Trojan Ind Santa Monica	213-829-1731
NY	B & B Motor & Cont LIC	718-784-1313

JAY-EL PRODUCTS INC BOX 25		
GARDENA CA 90247		
TWX 910-346-7633		213-323-7130
N CASALE EMP 360 ENG 20 OVER \$10,000K		
AZ	Thorson Co Scottsdale	602-998-2444
CA	Nova-Tronix Santa Clara	408-727-9530
CA	Trimarco Downey	213-861-8244
FL	Reynolds Assoc Melbourne	305-259-7000
KS	Mid West Tech Sls Meriam	913-236-8557
NH	Northeast Comps Corp Manchester	603-627-7242
NJ	D Walsh Milltown	212-757-1834
NY	M Eisenhardt Churchville PA	215-355-2636
PA	R Schopp LaFayette Hill	215-825-3666
TX	Control Components Dallas	214-458-8877
WA	W Knorr Redmond	206-643-4330

JB ELECTRONIC TRANSFORMERS INC	
2300 W ARMITAGE AVE CHICAGO	
IL 60647 TWX 910-221-1283	312-342-0080
J BLACKIDGE EMP 150 ENG 6 \$1,000-\$2,500K	

JBL INC 8500 BALBOA BLVD	
NORTHBRIDGE CA 91329	
TX 910-321-4317	213-893-8411
S CALDERO EMP 900 ENG 15 OVER \$10,000K	

JBM ELECTRONICS INC 531 FRONT ST	
MANCHESTER NH 03102	
TX 710-220-8978	603-623-0222
J CRAY EMP 100 ENG 3 \$5,000-\$10,000K	

DISTRIBUTORS

AL	Contact Electronics Huntsville	205-881-9321
CA	Zentron Chatsworth	818-709-0886
FL	Dileo Fl Lauderdale	305-973-8700
MN	Connectron Shoreview	612-481-0022
NH	Astrum Elect Hampstead	603-329-5656
OH	Stotts Friedman Dayton	513-298-5555
FR	Semad Div DGW Markham ON	416-475-8500

J B T INSTRUMENTS INC BOX 1818		
NEW HAVEN CT 06508	203-776-1111	
EMP 25 ENG 2		
MN	Hei-Lite Sales Mnpls	612-861-6051
TX	Forner & Assoc Dallas	214-241-2166
FR	R C Kahnt Sales Ltd Thornhill ON	416-221-7755

DISTRIBUTORS

CA	Metermaster Los Angeles	213-685-4340
LA	Ralphs Electronic Lafayette	318-233-0105
MD	E I L Instruments Sparks	301-771-4800
NJ	Marshall Div of Miscorp	
	Bellevue	201-751-1190
PA	Barbey Elect Reading	215-376-7451
TX	Quality Instruments Houston	713-524-0528
FR	Smith-Paterson & Assoc	
	Vancouver BC	604-681-0743

JDK CONTROLS INC 2630 LAVERY CT	
NEWBURY PARK CA 91320	
EMP 20 ENG 4 \$1,000-\$2,500K	805-499-7779

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NJ 07105 201-589-4257
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J KENNEDY EMP 150 ENG 5 \$5,000-\$10,000K

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WA Temco Northwest Bothell 206-821-5434
WI Momak Sales Muskego 414-363-7744
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J MILLMAN EMP 11 ENG 1 \$250-\$500K



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FL	EMS Inc Melbourne	305-724-1027
HI	Hawaiian Indus Instruments Honolulu	808-533-4322

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MD	Eastern Instrumentation Burtonsville	301-384-8500

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NM	Cleveland Enterprises Albuquerque	505-265-7893

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OH	Dietrich & Assoc Dayton	513-223-6042
OR	Westcon Inc Portland	503-283-0132
PA	Dietrich & Assoc Pittsburgh	412-892-2992
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VT	Eastronix Inc Shelburne	802-985-3473
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CT	Kanan Assoc Brookfield	203-775-0494
FL	D A King St Petersburg	813-381-1893
GA	Electro Technology Prods Atlanta	404-262-1522
IL	Gassner & Clark Schaumburg	312-882-8608
IA	Howard Brown Sales Co Cedar Rapids	319-366-0635
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MN	Gaffney Sales Osseo	612-425-5484
MO	Abrams & Assoc St Louis	314-569-0447
NJ	Trionic Assoc Colt's Neck	201-431-0415
NM	Cleveland Entrys Albuquerque	505-265-7893
NY	Trionic Assoc Great Neck	516-466-2300
NY	Lamb Components Rochester	716-544-5580
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CO	Elcom Data Denver	303-337-2680
GA	Terminals Plus Alpharetta	404-475-6686
IL	Interbusiness Corp Wheeling	312-459-8866
MD	Electronic Mktg Assoc Baltimore	301-744-7700
MA	IMF Sales Assoc Wakefield	617-245-8900
NJ	Eastern Data Systems Marlton	609-983-5100
NY	Excel Distributors Plainview	516-349-9235
NC	Galaxy Distributing Charlotte	704-394-0319
OR	Omega Data Inc Aloha	503-642-7224
PA	Promark Penllyn	215-643-3400
RI	Decision Computer Sys East Providence	401-434-7550
TX	Technology Mktg Corp Dallas	214-243-7994
UT	IBC Distribution Ogden	801-621-2294
WA	Seattle Telecom & Data Redmond	206-883-8440

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B KILRAIN EMP 10 ENG 2 \$250-\$500K	603-224-6583	
KINEMATICS/TRUE TIME 3243		
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R DIEMAN EMP 25 ENG 4 \$1,000-\$2,500K		
AL	Scientific Dev SE Huntsville	202-536-1969
AZ	Scientific Devices Phoenix	602-957-0401
CA	Scientific Dev Cal Huntington Bch	714-840-3501
CA	Scientific Dev Cal San Jose	408-554-0455
CO	Scientific Dev IN Brookfield	303-469-5145
FL	Scientific Dev SE Orlando	305-841-8180
IL	Marsland Assoc Des Plaines	312-298-2620
MA	Ciallin Assoc Bedford	617-275-7428
NM	Scientific Dev Albuquerque	505-293-3494
NC	Scientific Dev SE Winston Salem	919-765-5776
PA	Scientific Dev Phila North Wales	215-699-7707
TX	Scientific Dev SW Richardson	214-231-8106
VA	Scientific Dev D C McLean	703-893-6513
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GARDEN GROVE CA 92640		
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MARYKNOLL DR LOCKPORT		
IL 60441 TXW 910-638-2831		
W MARTIN EMP 160 ENG 16 \$5,000-\$10,000K	815-838-0005	
CA	Kinetic Systems Corp Fremont	415-797-2351
FL	Kinetic Systems Corp Orlando	305-425-9793
NJ	Kinetic Systems Corp Princeton	609-921-2088
NM	Kinetic Systems Corp Albuquerque	505-883-3846

KINETRON CORP 1416 ROLLER		
RD, OCEAN TWP IND PK		
ASBURY PARK NJ 07712		
A MARTEL EMP 10 \$250-\$500K	201-776-9595	

KING LABORATORIES INC 127		
SOLAR ST SYRACUSE NY 13204		
G KING EMP 35 ENG 1 \$1,000-\$2,500K	315-471-8123	

KING WIRE & CABLE CORP		
179-45 110TH AVE JAMAICA		
NY 11433 TXW 958858		
N DORFMAN EMP 110 OVER \$10,000K	718-657-4422	
ADV PG 57		
AZ	King Wire 2930 E Northern Phoenix	800-528-0449

FL	King Wire 7880 W Oakland Pk B1 Ft Lauderdale	800-432-4322
OH	King Wire 7803 Detour Av Cleveland	800-242-2727
TX	King Wire 2525 Royal La Dallas	800-527-5207

KINGS ELECTRONICS CO INC		
40 MARBLEDALE RD TUCKAHOE		
NY 10707 TXW 710-562-0110		
F DELLA IACONO EMP 600 ENG 15 OVER \$10,000K	914-793-5000	

KINGSTON METAL SPECIALTIES		
BOX 1205 KINGSTON PA 18704		
TXW 717-288-7580		
R MILLER EMP 50 ENG 3 \$2,500-\$5,000K	717-288-5411	
PA	Straub Metal Service Box 206 Bear Creek	

KINTEC CORP 9025 131 PL LARGO		
FL 33543 TXW 5101011624		
A PENTON EMP 30 ENG 8 \$1,000-\$2,500K	813-586-5900	

KIN-TRONICS INC 7 ODELL PLAZA		
YONKERS NY 10701		
D MINARDI	914-968-7736	
ADV PGS 1546,1574,1590,1644,1653,1673		
NY	Kin-Tronics Inc	800-431-5580

Principals: Condar Inc, Elec-Trol Inc, Gardner-Denver, Motorola Inc Display Systems, OK Industries, Reliability

KIPP & ZONEN 390 CENTRAL AVE		
BOHEMIA NY 11716 TXW 0960250		
W NOVACK EMP 25 ENG 2	516-589-2885	

KIRK & BLUM MFG CO 3166		
FORRER ST CINCINNATI OH 45209		
J BERTOLI EMP 450 ENG 15 OVER \$10,000K	513-351-1400	

KIRKILL RUBBER CO 300		
E CYPRESS ST BREA CA 92621		
TXW 910-596-1213	714-529-4901	
D REID EMP 850 ENG 11		
CA	Kirkhill Rubber Co Walnut Crk	415-938-8111

KIRKLAND CO INC H R 4935		
ALLISON 13 ARVADA CO 80002		
B KIRKLAND EMP 6 ENG 1 \$250-\$500K	303-422-6670	

KISTLER INSTRUMENT CORP		
75 JOHN GLENN DR AMHERST		
NY 14120 TXW 710-262-1284		
R BRATH EMP 46 ENG 8	716-691-5100	

KISTLER-MORSE CORP 10201		
WILLOWS RD NE BOX 3009 REDMOND		
WA 98073 TXW 15-2223		
J BEATON EMP 80 ENG 6 \$2,500-\$5,000K	206-881-8000	

KLEIN TOOLS INC 7200 MCCORMICK		
BLVD CHICAGO IL 60645		
TXW 72-4431		
D FOSHEE EMP 800 ENG 7	312-677-9500	

KLINGER SCIENTIFIC CORP		
110-20 JAMAICA AVE RICHMOND		
HILL NY 11418		
G SPIEGEL EMP 35 ENG 5	718-846-3700	

KLOCKNER-MOELLER 4 STRATHMORE RD		
NATICK MA 01780 TXW 94-8434		
G TAMER EMP 150 ENG 30 OVER \$10,000K	617-655-1910	

CA	Klockner-Moeller Cerritos	213-926-2355
CA	Klockner-Moeller Concord	415-676-5353
DE	Klockner-Moeller Claymont	302-798-4252
FL	V W Lanford Inc Altamonte	305-889-6616
GA	Klockner-Moeller Marietta	404-952-0258
IL	Klockner-Moeller Elk Grove	312-593-0980
MA	Klockner-Moeller Boston	617-237-3727
MI	Roth Indus Sales Bloomfield Hills	313-626-3171
NJ	Klockner-Moeller Fairfield	201-227-3140
NY	Symtrol Corp East Syracuse	315-437-2233
NC	Industrial Drives & Controls Charlotte	704-535-5414
OH	Klockner-Moeller Garfield Hts	216-662-0560
OK	Klockner-Moeller Tulsa	918-627-0676
PA	Klockner-Moeller Claymont	215-569-9164
TX	Klockner-Moeller Stafford	713-491-2687
WA	Klockner-Moeller Seattle	206-575-4636

K & M ELECTRONICS INC 123		
INTERSTATE DR WEST SPRINGFIELD		
MA 01089 TXW 710-350-6463		
A MALLANIK EMP 400 ENG 7 OVER \$10,000K	413-781-1350	
CT	Precision Sales Inc Marlborough	203-295-0580

KNOBS INC BOX 166 ELMHURST		
IL 60126 TXW 721498		
M ANN BURKE EMP 30 ENG 2 \$5,000-\$10,000K	312-449-1990	
CA	O'Donnell Assoc Torrance	213-539-9664
IL	Bob Golttermann Assoc Elmhurst	312-449-3090
MO	Phelan-Tramelli Sales St Louis	314-727-3400
TN	MacLennan Assoc Chattanooga	615-266-5321
TX	Wm Reese & Assoc Dallas	214-351-0708
WA	Quest Mktg Inc Bellevue	206-747-9424

KNOWLES ELECTRONICS INC		
3100 N MANNHEIM RD FRANKLIN		
PARK IL 60131 TXW 72-8397		
	312-455-3600	

KOA SPEER ELECTRONICS INC		
BOLIVAR DR BOX 547 BRADFORD		
PA 16701 TXW 510-695-5921		
N VECELLIO EMP 52 ENG 2 OVER \$10,000K	814-362-5536	
AL	Cartwright & Bean Huntsville	205-830-1540
AZ	O'Donnell Assoc SW Phoenix	602-944-9542
CA	Westrep Santa Clara	408-988-8833
CO	R G Entrps Boulder	303-447-9211
CT	Gerber Sales Corp Middletown	203-347-3000

FL	APM Assoc Altamonte Springs	305-869-6831
FL	APM Assoc Ft Lauderdale	305-565-0056
GA	Cartwright & Bean Atlanta	404-233-2939
IL	C Greenslade Sales Arlington Hts	312-593-3450
IN	John F Kilfoil Co Ft Wayne	219-436-7233
KS	Advanced Tech Sales Olathe	913-782-8702
LA	Cartwright & Bean Covington	504-892-1780
MA	Gerber Sales Waltham	617-890-3334
MA	Gerber Sales Waltham	413-267-5051
MI	C B Jensen & Assoc Troy	313-643-0506
MN	Grayden & Flemmer Edina	612-941-1120
MS	Cartwright & Bean Jackson	601-981-1170
MO	Advanced Tech Sales St Louis	314-788-2921
NM	F P Sales Albuquerque	505-345-5553
NY	MOS Assoc Great Neck	516-487-3966
NY	TRI Tech Elctns Endwell	607-754-1094
NC	Cartwright & Bean Charlotte	704-377-5673
OH	John F Kilfoil Co Cincinnati	513-791-6150
OR	Earl & Brown Co Portland	503-245-2283
PA	Metz-Benham Assoc Wynnewood	215-896-7000
TN	Cartwright & Bean Memphis	901-276-4442
TX	Jam Hughes Co Stafford	713-343-0673
WA	Earl & Brown Co Seattle	206-284-1121
FR	Cantronics Ltd Scarborough ON	416-297-8668
FR	M Anderson Co Hato Rey PR	809-751-2026

DISTRIBUTORS		
AZ	Sterling Elect Phoenix	602-268-2121
AZ	RCD Tempe	602-838-0979
AR	Carlton-Bates Little Rock	501-562-9100
CA	Elec Elect San Jose	408-262-1111
CA	Components Center Fin Valley	714-979-0433
CA	Components Center Santa Clara	408-988-3751
CA	QC Components Chatsworth	818-700-2622
CA	Ryno Elect Irvine	714-557-5021
CA	Kellex Elect Irvine	714-957-3247
CA	R G Entrps Boulder	303-447-9211
CA	Ragon Elect Parts Denver	303-744-3601
CT	Utronics Stratford	203-378-4201
CT	Midstate Elect Wallingford	203-265-9900
CT	TTI Stratford	203-375-1400
FL	Nurmi Elect W Palm Bch	305-684-0320
FL	TTI Orlando	305-859-1000
FL	Repton Elect Tampa	813-855-4656
GA	Quality Components Roswell	404-993-8146
GA	Prehler Electronics Atlanta	404-447-5540
IL	Advent Elect Rosemont	312-298-4210
IL	GBL/Gould Elect Elk Grove Vlg	312-593-3220
IL	Classical Comp Supply Northbrook	312-272-9650
IN	Advent Elect Indpls	317-872-4910
IA	Advent Elect Cedar Rapids	319-363-0221
LA	Industrial Elect Supply Shreveport	318-222-9459
LA	Industrial Elect Supply Baton Rouge	504-357-4249

MD	Baton Rouge	504-367-4248
MD	Radio Elec Serv White Marsh	301-529-0500
MA	Baldwin Comp Ctr Billerica	617-667-6710
MA	Gerber Elect Norwood	617-769-6000
MA	Sager Elec Supply Hingham	617-749-6700
MA	Sterling Elect Woburn	617-938-6200
MI	Wedemeyer Ann Arbor	313-665-8611
MI	Advent Elect Farmington Hills	313-477-1650
MI	Prehler Elect Farmington Hills	313-476-7084
MI	Ragon Elect St Paul	612-642-2828
MO	Klockner Elect Independence	816-254-3410
NE	Scott Elect Lincoln	402-466-8221
NJ	Enox Resistor Co Mountainside	201-654-7600
NJ	Baldwin Comp Ctr Ronkonkoma	516-588-5700
NY	Jaco Elect Hauppauge	516-273-5500
NY	Fairmont Elect Sales Hauppauge	516-231-3313
NY	Standard Elect Amherst	716-691-1801
NY	Summit Dist Buffalo	716-884-3450
NY	Prime Components Ronkonkoma	516-737-1730
NY	Summit Dist Rochester	716-334-8110
NY	SAI Farmingdale	516-293-2710
NY	Justin Elect Boham	516-589-4000
NC	Southeastern Radio Raleigh	919-828-2311
NC	Golden Elect Greensboro	919-373-0038
OH	Roberts Elect Cleveland	216-238-1711
OK	Altair Co Tulsa	918-252-5781
OR	Murphy Electronics Beaverton	503-642-2001
PA	Phila Electronics Phila	215-568-7400
PA	REM Erie	814-453-5626
PA	Cumberland Elect Harrisburg	717-233-5883
PA	Kass Elect Dist Drexel Hill	215-449-2300
RI	Wm Dandreta Co Providence	401-861-2800
TN	Bluff City Elect Memphis	901-345-9500
TN	Bluff City Elect Nashville	615-242-8000
TX	Altair Co Houston	713-462-3029
TX	T T I Inc Ft Worth	817-429-1440
TX	CCI Richardson	214-644-3444
WA	Murphy Elect Redmond	206-881-1234
WI	GW Electronics Hartland	414-367-6003
WI	Classic Components New Berlin	414-786-3000
FR	Prelco Elect Ltd Montreal PQ	514-389-8051
FR	Prelco Elect Ltd Mississauga ON	416-678-0401

WI	Marsland Assoc New Berlin.....	414-786-6011
KOLE INDUSTRIES INC 3553	NW 50 ST MIAMI FL 33102.....	305-633-2556
D SPRAGUE EMP 38 \$1,000-\$2,500K		
KOLLMORGEN CORP PCK TECHNOLOGY	DIV 322 LIE S SERVICE RD	
MELVILLE NY 11747 TWX 6852163.....		516-454-4400
J DENNIS-BROWNE EMP 180 ENG 80 OVER \$10,000K		
KOOLTRONIC INC HAMILTON AV	HOPEWELL NJ 08525 TWX 843345.....	609-466-3400
ENG 10		
CA	Kooltronic of Cal Ventura.....	805-642-8521
KORRY ELECTRONICS CO 901	DEXTER AVE N SEATTLE WA 98109	
TXW 910-444-2295		206-281-1300
J AMIS JR EMP 400 ENG 12 OVER \$10,000K		
CA	Gabriel-Damon Assoc Anaheim.....	714-957-1981
CA	Craft Assoc Atlanta.....	404-256-0420
IN	Aktron Corp. Ft Wayne.....	219-747-3650
MD	Hodgins Assoc Glenarm.....	301-592-7047
MA	MPS Elctns Norwood.....	617-769-8700
NY	Sonkin Assoc Mt Vernon.....	914-668-9809
FR	Wilson Enterprises Toronto Ont.....	416-766-0510
KRAS CORP 99 NEWBOLD RD	FAIRLESS HILLS PA 19030	
TXW 244945		215-736-0981
A TRACEY EMP 230 ENG 15 OVER \$10,000K		
CA	KRAS Corp San Jose.....	408-249-0200
NJ	Gary P Farrell Co Hackettstown.....	201-852-6140
KRATOS ANALYTICAL 170 WILLIAMS	DR RAMSEY NJ 07446 TWX 685	
3505		201-934-9000
R HETKE EMP 165 ENG 8		
CA	Griot Assoc Los Altos.....	415-941-2533
IL	Brooks Engrg Chicago.....	312-944-1227
NJ	Enmark Assoc River Edge.....	201-967-1800
KRECKMAN CO HERB SPRUCE CABIN RD	CRESKO PA 18326	
H KRECKMAN EMP 4 ENG 1 \$100-\$250K		717-595-2212
CA	Ross Communications Couina.....	967-2402
CO	Electro-Tek Sales Aurora.....	525-0173
FL	Mart Haller Export Corp	
	Coral Gables.....	444-4617
MI	Webster Assoc Rochester.....	375-0420
MO	Comm-Systems 520 W 5 St Cameron.....	632-7616
FR	ITT Export Corp New York, NY.....	269-3800
K R ELECTRONICS 91 AVENEL ST	AVENEL NJ 07001.....	201-636-1900
EMP 30 ENG 2 \$500-\$1,000K		
KRL ELECTRONICS INC 160	BOUCHARD ST MANCHESTER	
NH 03103 TWX 710-220-1662		603-668-3210
EMP 75 ENG 3		
FL	EMA.....	305-671-6800
IL	Combs Assoc.....	312-439-9810
IA	Combs Assoc.....	319-362-4116
MA	Del Con Sales.....	617-938-1929
NY	H C Johnson Agencies.....	201-464-0203
NY	Cambridge-Allen & Assoc.....	513-433-2800
OH	EMA.....	903-859-1859
SC	R A Sales.....	703-471-0440
VA	Tytronics.....	
KROHN-HITE CORP AVON IND PARK	AVON MA 02322	
TXW 710-345-0831		617-580-1660
J INGLIS EMP 90 ENG 11 \$2,500-\$5,000K		
AZ	Gentry Assoc Huntsville.....	205-534-9771
AL	Odyssey I Glendale.....	602-246-8846
CA	L & M Engrg Ingleswood.....	213-674-6850
CA	MCH Assoc San Jose.....	408-246-7330
CO	Odyssey I Denver.....	303-758-5456
FL	Gentry Assoc Orlando.....	305-859-7450
GA	Gentry Assoc Roswell.....	404-998-2828
IL	Berndt Assoc Chicago.....	312-283-0713
IN	Berndt Assoc Carmel.....	317-844-0114
KS	Ramsey Assoc Overland Pk.....	913-649-6996
LA	Gentry Assoc Gretna.....	504-367-3975
MA	McBar Assoc Waltham.....	617-890-0233
MI	EQS Systems Detroit.....	313-961-3042
MN	Berndt Assoc Mpls.....	612-546-2021
MO	Ramsey Assoc Maryland Hts.....	314-878-5042
NJ	SCI Rep Pennsauken.....	609-662-5222
NJ	Scientific Dev East Englewood	
	Cliffs.....	201-871-3916
NY	Odyssey I Albuq.....	505-285-6645
NM	Labtronics Inc Syracuse.....	315-455-7314
NC	Gentry Assoc Burlington.....	919-227-3639
OH	EQS Systems Dayton.....	513-294-2476
OK	Kemp Eng Tulsa.....	918-663-4501
SC	Gentry Assoc Columbia.....	803-772-6788
TN	Gentry Assoc Rockford.....	615-977-0282
TX	Kemp Eng Houston.....	713-466-1465
VA	SCI Rep Fairfax.....	703-385-0600
WA	Sci Devices NW Bellevue.....	206-747-5196
WI	Berndt Assoc Milwaukee.....	414-545-8400

FR	Webster Assoc Mississauga ON.....	416-625-0600
FR	Webster Assoc St Albert AB.....	403-458-4669
FR	Webster Assoc St Laurent PQ.....	514-744-5829
FR	Webster Assoc Ottawa ON.....	613-725-0288
FR	Webster Assoc Burnaby BC.....	604-434-2611

KRYSTINEL CORP 126 PENNSYLVANIA
AVE PATERSON NJ 07053
TXW 710-988-5931
J BARRECA EMP 200 ENG 10 \$5,000-\$10,000K
ADV PG 180

AZ	C T Fink Assoc Phoenix.....	602-992-9885
FL	HAI Inc Coral Springs.....	305-752-7520
MA	Vantage Assoc Framingham.....	617-879-6596

DISTRIBUTORS

CA	Permag Corp Los Alamitos.....	714-952-2091
CO	Permag Corp Aurora.....	303-693-6612
CA	Permag Corp Norcross.....	404-448-4998
IL	Permag Corp Elk Grove Village.....	312-956-1140
MA	Permag Corp Billerica.....	617-273-2890
MN	Permag Corp Eden Prairie.....	612-934-4635
NY	Permag Corp Hicksville.....	516-822-3311
OH	Permag Corp Toledo.....	419-385-4621
OR	Permag Corp Portland.....	503-252-9610
TX	Permag Corp Richardson.....	214-691-1121

KSI 126 SOHIER RD BEVERLY
MA 01915 TWX 887 159
ADV PGS 339,341,345,347,349,351
 See Kaiser Systems Inc Listing

KSI DISC PRODUCTS 14050
LAURELWOOD PL CHINO CA 91710
M HISS EMP 465 ENG 11 OVER \$10,000K

K-SYSTEMS INC 3902 LILAC
LAS CRUCES NM 88005
TXW 6502763972
EMP 4 ENG 2

K-TRON ARIZONA INC 7955
E REDFIELD RD SCOTTSDALE
AZ 85260 TWX 16-5034
R PATTON EMP 150

K-TWO INDUSTRIES 4331 MIRANDA
AVE BOX 60338 PALO ALTO
CA 94306
C KREBS EMP 12 ENG 3

KUHLMANN AMERICA INC BOX 72087
ROSELLE IL 60172
TXW 910-291-1215
H WINDOLF EMP 3 ENG 1 \$500-\$1,000K
CA Kuhlmann-Vlasek LA..... 213 748-5508
TX B-L Drafting Equip Houston..... 713-674-7639

DISTRIBUTORS

FL	Computool Mfg Fort Lauderdale.....	305-792-8665
MI	Design Prods Co Southfield.....	313-352-6100
NJ	Bloomfield Foundry Bernardsville.....	201-766-3630
OH	J Nelson Graphics Cleveland.....	216-646-0200
PA	Owen Jones Corp Plymouth Mtg.....	215-825-8120

KULITE SEMICONDUCTOR PRODUCTS INC
1039 HOYT AVE RIDGEFIELD
NJ 07067 TWX 6853296
R MOORES EMP 300 ENG 20 OVER \$10,000K

AZ	Lee Assoc Huntsville.....	205-553-5896
AL	Dave Menegay Assoc Scottsdale.....	602-994-9519
CA	B J Wolfe Entprs N Hollywood.....	213-877-5518
CA	Dale-Dahl Assoc Walnut Creek.....	415-933-9595
CO	Measurement Consultants Boulder.....	303-449-7506
FL	Dick Ridgewell Co Osprey.....	813-484-2020
IN	EIA Inc Indpls.....	317-257-7231
MD	Repton Inc Baltimore.....	301-799-7490
MA	Daner-Hayes Inc Wayland.....	617-655-0888
MI	WKM Assoc Madison Hts.....	313-588-2300
MN	Trask Engrg Mpls.....	612-537-2434
MO	Ozark Elctn Mktg St Louis.....	314-423-7200
NM	Amnette Enterprises Albuq.....	505-344-4143
OH	WKM Assoc Dayton.....	513-434-7500
UT	Measurement Consultants SLC.....	801-364-3174
WA	Brett Assoc Seattle.....	206-431-8090

KULKA SMITH INC 1913 ATLANTIC
AVE MANASQUAN NJ 08736
TXW 244536
J COOPER EMP 400 ENG 6

AZ	Sheffer-Kahn Co Phoenix.....	602-257-9015
CA	Landa/Minyard Inc LA.....	213-879-0770
CA	Ross Mktg Assoc Santa Clara.....	408-988-8111
CA	Jacobson & Assoc Newark.....	415-791-2336
CO	Lindberg Co Denver.....	303-758-9033
FL	Panatech Inc Ft Lauderdale.....	305-587-3769
GA	Bryco Co Grayson.....	404-466-2997
IL	Dolin Sales Northbrook.....	312-498-6770
IL	RMP/McBride Corp Lombard.....	312-932-9090
IN	Electronic Representatives	
	Indpls.....	317-894-1414
KS	Lowell-Kangas & Assoc Shawnee	
	Mission.....	913-631-3515
MA	Northeast Representatives	
	Hingham.....	617-479-8700

MA	W & D Marketing Woburn.....	617-935-5610
MI	Nordstrom & Co Southfield.....	313-559-7373
MI	Nordstrom & Co Jenison.....	616-457-5762
MN	Electric Component Sales Mpls.....	612-933-2594
MO	Lowell Kangas Assoc St Louis.....	314-821-4050
NY	Leonard D Allen Inc Syracuse.....	315-437-8387
NY	Jack Brown Elect Sales	
	Whitestone.....	212-767-1977
NY	Kaufman Warren & Assoc Rochester.....	716-266-2728
NY	Kaufman Warren & Assoc	
	E Greenbush.....	518-477-9864
NC	Zucker Assoc Raleigh.....	919-782-8433
NC	Hile Sales Inc Greensboro.....	919-288-1500
OH	Baehr Greenleaf & Assoc	
	Cleveland.....	216-221-9030
OR	Dale G Weber Co Portland.....	503-234-7671
PA	PSA Inc Treviso.....	215-245-0513
TX	Crockett Sales Co Dallas.....	214-350-3377
TX	Reynolds Assoc Bedford.....	817-268-4671
WI	D Dolin Sales Co Milwaukee.....	414-482-1111
FR	Frank Eakin Sales Rexdale ON.....	416-245-3600

KURZ INSTRUMENTS INC BOX 849
CARMEL VALLEY CA 93924
TXW 172275
P HICKERSON EMP 60 ENG 2 \$5,000-\$10,000K

DISTRIBUTORS

AZ	Axia Enterprises Phoenix.....	602-968-6241
CA	Abbeon Cal Santa Barbara.....	805-866-0811
IL	Cole Palmer Inst Niles.....	312-647-7600
KY	Orr Safety & Equip Co Louisville.....	502-774-5791
MI	Argus Supply Roseville.....	313-774-8900
NV	Nevada Safety & Sply Sparks.....	702-359-6474
NY	AFPT Honeoye Falls.....	716-624-3820
OH	Noral Inc Cleveland.....	216-831-2345
OR	Extch Ltd Portland.....	503-292-9219
PA	Environmental Tectonics	
	Southampton.....	215-355-9100
TX	Kernco Inst Co El Paso.....	915-852-3375
UT	VWR Scientific SLC.....	801-972-6400
WA	Safety & Supply Co Seattle.....	206-762-8500
WI	Envirotech Services Prairie	
	du Sac.....	608-643-4755

KURZ-KASCH INC KNOB DIV
711 HUNTER DR WILMINGTON
OH 45177
L FREEMAN EMP 300 ENG 15 OVER \$10,000K

KURZWEIL APPLIED INTELLIGENCE INC
411 WAVERLY OAKS RD WALTHAM
MA 02154
617-893-5151

KUSTOM ELECTRONICS INC
8320 NIEMAN RD LENEXA
KS 66214 TWX 437437
M FILLMORE EMP 96 OVER \$10,000K

DISTRIBUTORS

CA	Infotools Corte Madera.....	415-927-0600
MD	Sugarloaf Computer Prods	
	Columbia.....	301-964-1311
MD	Datek Inc Rockville.....	301-294-0744
MO	Computer Software House	
	Dist Grandview.....	800-255-0390

KVG 1451 W CYPRESS CREEK RD
FORT LAUDERDALE FL 33309
TXW 506-266-9708
J HUSNEY EMP 320 ENG 30 OVER \$10,000K
ADV PG 148

KS Jack Husney & Assoc 8907
 Linden La Prairie Village..... 913-381-3314
FR KVG Box 61 Neckarbischofsheim
 W Gern..... 7263/6301

KW ENGINEERING INC 4949
VIEWRIDGE AVE SAN DIEGO
CA 92123 TWX 910-335-1576
B LAVERY EMP 95 ENG 12 \$2,500-\$5,000K
AZ Faser Tech Sales Scottsdale..... 602-948-4404
CA Cain Technology LA..... 213-476-2251
IL Dytec/Central Arlington Hts..... 312-394-3380
MD Bargin-Kreh Assoc Baltimore..... 301-265-8500
MA R J Sicks Assoc Lexington..... 617-862-5100
NY ERA Inc Commack..... 516-543-0510
TX Thorson Co Dallas..... 214-233-5744

K-W MFG CO BOX 508 PRAGUE
OK 74864
F PICKARD EMP 50 ENG 2 \$500-\$1,000K

KYOCERA INTERNATIONAL INC
11425 SORRENTO VALLEY RD
SAN DIEGO CA 92138-5542
TXW 910-322-1130
M DROTTER EMP 2000 ENG 100 OVER \$10,000K

KYOCERA INTL INC ELCTN COMPS
GROUP 8611 BALBOA AV
SAN DIEGO CA 92123
TXW 910-322-1130
M OROTAR EMP 1200 ENG 100 OVER \$10,000K

For **Kulka**
Make a Peerless Decision



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 In New Jersey (201) 592-0351, 0358, 0364
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 Call Toll Free 800-645-2268

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 3161 S.W. 14th Ct., Pompano Beach, Florida 33069
 (305) 973-4141
 TWX 510-956-3118
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KYOWA DENGYO CORP 10 REUTEN DR		
CLOSTER NJ 07624 TWX 13-5067	201-784-0500	
K TAGUCHI EMP 6 ENG 2 \$2,500-\$5,000K		
AZ Vic Myers Mesa	602-241-9324	
CA Westech Fullerton	714-680-0933	
CA Westech Sunnyvale	408-735-8887	
CO Vic Myers Ft Collins	303-629-9676	
CT Addelco Corp Manchester	203-647-7136	
FL Micro Spec Inc Orlando	305-299-6508	
GA Micro Spec Inc Lilburn	404-921-3840	
IL Comtel Midwest Co Chicago	312-539-4838	
IN Comtel Midwest Co Indpls	317-253-1681	
IA Comtel Midwest Co Cedar Rapids	319-377-9434	
KS Comtel Midwest Co Shawnee		
Mission	913-722-1030	
MD Sci-Rep Inc Cockeysville	301-321-1411	
MA Addelco Corp Needham	617-444-4754	
MI Comtel Instr Co Southfield	313-358-2505	
MN Comtel Midwest Co Wayzata	612-476-1551	
MS Comtel Midwest Co St Louis	314-991-5363	
NJ Sci-Rep Inc Pennsauken	609-662-5222	
NM Vic Myers Albuquerque	505-884-6878	
NY Maxwell Bennett Assoc		
Williamsville	716-634-2107	
OH Comtel Instr Co Cleveland	216-442-8080	
OK Acudata Inc Stillwater	405-743-1886	
PA Comtel Instr Co Pittsburgh	412-922-5720	
SC Micro Spec Inc Rock Hill	803-366-3015	
TN Micro Spec Inc Nashville	615-383-4064	
TX Acudata Inc Plano	214-424-3567	
UT Vic Myers West Jordan	801-965-0901	
VA Sci-Rep Inc Fairfax	703-384-6860	
WI Comtel Midwest Co New Berlin	414-544-6042	
KYSOR/CADILLAC 1100 WRIGHT ST		
CADILLAC MI 49601		
TXW 810-291-3353	616-775-4681	
B DUFOUR EMP 210 ENG 10 OVER \$10,000K		
AL Diesel Equip Co Birmingham	205-591-2356	
AZ Cummins Southwest Phoenix	602-252-8021	
CA California Equip Co Oakland	415-335-2310	
CA Chas W Carter Co LA	213-689-3111	
CO Denver Radiator & Shutter		
Serv Denver	303-534-0355	
FL Mathews Equip FL Inc Tampa	813-623-6894	
GA Mathews Equip Co Hapeville	404-766-2195	
IL Illinois Auto Central Chicago	312-582-6200	
IN Indiana Wheel & Rim Svc Indpls	317-241-9393	
IA American Diesel Co Des Moines	515-263-8123	
KS B & D Motor Parts Fort Scott	716-223-2680	
KY Herbst Truck Equip Co Louisville	502-582-2412	
LA Transport Refrig of LA Jefferson	503-831-1391	
MI Mobile Refrigeration Detroit	313-272-2600	
MN Ajax Power Brake St. Paul	612-645-0616	
MO Gooch Brake & Equip Co.		
Kansas City	816-421-3085	
MT Montana Brake Engrg Inc Billings	406-252-2187	
NJ Ross Equip Co Elizabeth	201-352-9721	
NY Donnelly Diesel Service Buffalo	716-823-2525	
NC Campbell-Brown Inc Charlotte	704-377-2551	
ON Austin Ignition Akron	216-253-7791	
OK Perfecton Equip Okla City	405-947-6603	
PA D & D Rebuilding Svc New		
Brighton	412-846-1290	
TN Memphis Brake Service Memphis	901-525-0606	
TX Ft Worth Truck Air Conditioning		
Ft Worth	817-332-1437	
UT Wilson Supply Inc SLC	801-355-3900	
VA Standard Parts Corp Richmond	804-233-8321	
WA Fleet Equip Co Seattle	206-762-6601	
WV Power Brake Co Wheeling	304-232-5646	
WI Fuel Systems Inc Brookfield	414-781-3553	
FR Huttons Ltd Calgary AB	403-230-4261	
FR Auto Marine Elec Ltd Vancouver		
BC	604-874-7333	
FR Fort Garry Industries Winnipeg		
MB	204-586-8261	
FR Sunterier Equip Ltd Mississauga		
ON	416-624-6200	
FR Cadel Ltd Montreal PQ	514-331-4616	
LAB-LINE INSTRUMENTS INC		
15TH & BLOOMINGDALE		
MELROSE PARK IL 60160	312-450-2600	
G PERRINE EMP 220 ENG 16		
LABORATORY PRODUCTS INC		
16 FAIRMOUNT CT BOX 258		
HYDE PARK MA 02136	617-364-6260	
R TORONTO EMP 10 ENG 2 \$250-\$500K		
LABORATORY TECHNOLOGIES CORP		
255 BALLARDVALE ST WILMINGTON		
MA 01887	617-657-5400	
W OVERHOLT EMP 11		
DISTRIBUTORS		
AZ Burr Brown Tucson	602-624-2434	
CA Action Instruments San Diego	619-279-5726	
IN Scientific Software Prods Indpls	317-293-9270	
MA Acrosystems Beverly	617-927-8885	
MA Data Translation Marlboro	617-481-3700	
MA Metabyte Stoughton	617-344-1990	
MA Datal Mansfield	617-339-9341	
MA Cyborg Corp Newton	617-964-9020	
OH Scientific Solutions Cleveland	216-349-4030	
PA Coulbourn Inst Lehigh Valley	215-395-3771	
PA Interactive Microware State		
College	814-238-8294	
TX National Instruments Austin	512-250-9119	
LABSPHERE INC BOX 70 NORTH RD		
NORTH SUTTON NH 03260		
TXW 710-366-0064	603-927-4266	
K CARR EMP 31 ENG 6		

LADESCO INC PINE ST EXT NASHUA		
NH 03060	603-883-7158	
R BELCOURT EMP 40 ENG 1 \$1,000-\$2,500K		
LAFRANCE CORP 8420 EXECUTIVE AVE		
PHILADELPHIA PA 19153		
TXW 506082	215-365-8000	
B MCHEENY EMP 302 ENG 10 OVER \$10,000K		
AL S Ray	205-536-0646	
CA R Roach	714-522-6410	
FL J Helbin	305-367-3025	
NJ W Boucot	609-428-1844	
NC K Pierce	919-476-2365	
OH B Brown	419-874-1100	
OK D Lurwick	817-540-0236	
LAKE CHEMICAL CO 250 N		
WASHTENAW AVE CHICAGO		
IL 60612	312-826-1700	
K CLEIMAN EMP 85 ENG 4		
LAKE SHORE ELECTRIC CORP		
205 WILLIS ST BEDFORD		
OH 44146 TWX 980-253	216-232-0200	
R KRAUSE EMP 40 ENG 8 \$2,500-\$5,000K		
AZ Culyford Phoenix	602-841-6093	
CA EMS Huntington Bch	714-895-6100	
CA Barco Lafayette	415-284-1110	
CT Cote Enfield	203-745-1994	
FL Alvan C Chaney & Assoc		
117 NE 54 St Miami	305-754-8857	
IL Anderson-Duerr Lake Bluff	312-234-4595	
LA Gregory-Salisbury New Orleans	504-945-5207	
MO I L Davidson Co Kansas City	816-333-2044	
NY Electro-Source Huntington	516-385-3141	
OH J C Engineering Medina	216-225-1726	
PA Goudali Equip Devon	215-964-1070	
TX Total Equip Co Grand Prairie	214-660-4913	
UT Fosse Sales Salt Lake City	801-942-2842	
VA Frazier & Co Richmond	804-784-4125	
WA Otto Miller Kirkland	206-822-6603	
WI Tramont Corp Milwaukee	414-291-5180	
LAKE SYSTEMS CORP 55 CHAPEL		
ST BOX 65 NEWTON MA 02160		
TXW 710-335-1639	617-244-6881	
W KELLEY EMP 115 ENG 12 OVER \$10,000K		
LAKETOWN MFG CORP 820 S		
PINE BOX 27 WACONIA		
MN 55387-0027	612-442-4477	
S DOUGHMAN EMP 25 ENG 2 \$500-\$1,000K		
LAKONTEK INC 2385 S CLINTON AVE		
SOUTH PLAINFIELD NJ 07080	201-755-7680	
R DARRALL		
LAMARCHE MFG CO 106 BRADROCK DR		
DES PLAINES IL 60018		
TXW 282526	312-299-1188	
W WILLING EMP 200 ENG 4 \$2,500-\$5,000K		
LAMART CORP 16 RICHMOND ST		
CLIFTON NJ 07015	201-772-6262	
J LAMBERT EMP 50 ENG 3 \$5,000-\$10,000K		
LAMBDA ELECTRONICS 515		
BROAD HOLLOW RD MELVILLE		
NY 11747 TWX 510-224-6484	516-694-4200	
I GUTMAN EMP 1500 ENG 60 OVER \$10,000K		
CA Lambda Electronics Santa		
Fe Springs	1-800-Lambda-5	
CA Lambda Electronics Sunnyvale	1-800-Lambda-5	
CO Lambda Electronics Denver	1-800-Lambda-5	
MA Lambda Electronics Woburn	1-800-Lambda-4	
MI Lambda Electronics Detroit	1-800-Lambda-4	
MN Lambda Electronics Minneapolis	1-800-Lambda-4	
MO Lambda Electronics St Louis	1-800-Lambda-4	
NY Lambda Electronics Rochester	516-694-4200	
OH Lambda Electronics Cleveland	1-800-Lambda-4	
OK Lambda Electronics Tulsa	1-800-Lambda-5	
TX Lambda Electronics Houston	1-800-Lambda-5	
TX Lambda Electronics Dallas	1-800-Lambda-5	
FR Veeco Lambda Ltd Pte Claire Que	514-697-6520	
FR Veeco Lambda Ltd Toronto Ont	1-800-361-6130	
LAMBDA SEMICONDUCTORS 121		
INTERNATIONAL DR CORPUS		
CHRISTI TX 78410		
TXW 910-876-1404	512-289-0403	
EMP 250 ENG 10 OVER \$10,000K		
FR Veeco Lambda Inc Pte Claire PQ	514-697-6520	
LAMINATED FABRICATORS 1145		
SAN MATEO AVE SAN BRUNO		
CA 94066	415-583-5092	
H JACOBS EMP 6		
LAMP TECHNOLOGY INC 141A		
CENTRAL AVE FARMINGDALE		
NY 11735 TWX 279260	516-454-6464	
E REUTER EMP 17 ENG 2 \$2,500-\$5,000K		
LAM RESEARCH CORP 47655		
WARM SPRINGS BLVD FREMONT		
CA 94539 TWX 6839142	415-659-0200	
T VOEHL		
LAMTECH ELECTRONICS INC		
620 EASY ST GARLAND TX 75042	214-272-3504	
LANCASTER GLASS CORP 236		
W MAIN BOX 70 LANCASTER		
OH 43130	614-653-0311	
B GREENLEE EMP 375 ENG 4 OVER \$10,000K		

LAND INSTRUMENTS INC BOX 1623		
TULLYTOWN PA 19007		
TXW 83-1392	215-943-7882	
R GAGO EMP 16 ENG 10 \$2,500-\$5,000K		
CA Land Instr Inc Oakland	415-632-2622	
CA Westlab Inc Brea	714-993-2150	
IN Holmes Equipment Michigan City	219-874-8618	
MD Electra-Tech Inc Perry Hall	301-256-2723	
MA Hi Tech Controls Inc Belmont	617-489-0851	
MI Automatic Controls Inc Detroit	313-533-8890	
MO Industrial Msmt Co Chesterfield	314-532-6910	
NJ RJM Sales Scotch Plains	201-322-7880	
NC Algay Controls Inc Charlotte	704-366-6976	
OH Anderson Bolds Inc Cleveland	216-229-4700	
PA Baker Process Equip Co Corapolis	412-264-8271	
TN Hile Controls Knoxville	615-584-0208	
TX Leake Co Dallas	214-343-1266	
TX Pan Tech Engr Corp Sugarland	713-240-1220	
WA EMRA Seattle	206-244-4341	
FR Thermo Kinetics Rexdale	416-741-5794	
LANDIS & GYR SYSTEMS 1730		
TECHNOLOGY DR SAN JOSE		
CA 95115 TWX 910-338-0217	408-297-9920	
L SMITH EMP 200 ENG 69 OVER \$10,000K		
CO Hamilton Assoc Denver	303-629-0901	
IN Landis & Gyr Lafayette	317-423-5438	
OK Landis & Gyr Tulsa	918-835-7241	
PA Landis & Gyr Reading	215-921-9231	
LANDMARK ELECTRONICS LTD		
28 SOUTH MALL PLAINVIEW		
NY 11803 TWX 645121	516-293-7441	
G SCHURSKY EMP 8 \$1,000-\$2,500K		
LANIER BUSINESS PRODUCTS INC		
1700 CHANTILLY DR NE ATLANTA		
GA 30324	404-329-8000	
EMP 5000 ENG 200 OVER \$10,000K		
LANLY CO 26201 TUNGSTEN RD		
CLEVELAND OH 44132 TWX 980131	216-731-1115	
T LOVSIN EMP 40 ENG 4 \$2,500-\$5,000K		
LANSDALE SEMICONDUCTOR		
3600 W OSBORN RD PHOENIX		
AZ 85019 TWX 602 269 6266	602-269-6262	
R HEINZ EMP 40 ENG 8 \$5,000-\$10,000K		
AZ L T E Phoenix	602-269-6262	
CA Solid State Sales Co Costa Mesa	714-650-8414	
CO Wescom Marketing Wheatstone	303-422-8957	
CT Orion Group Southington	203-621-8371	
FL Electrocraft Inc Largo	813-530-4749	
IL Synmark Sales Co Rosemont	312-825-3455	
MA Orion Group Wakefield	617-245-5220	
MN S & R Comp Sales Mpls	612-559-3090	
NY J-Square Mktg Jericho	516-935-3200	
OH J N Bailey & Assoc New Lebanon	513-687-1325	
PA Delta Technical Sales Horsham	215-443-5503	
VA Boyle Assoc Reston	703-620-9958	
LANSING RESEARCH CORP 705		
WILLOW AVE BOX 730 ITHACA		
NY 14850	607-272-3265	
F WIDDING		
LAPINE TECHNOLOGY 182 TOPAZ ST		
MILPITAS CA 95035 TWX 171693	408-262-7077	
T FINNEGAN EMP 100 ENG 20		
DISTRIBUTORS		
NY Diplomat Electronics Melville	516-454-6334	
LAPOINTE INDUSTRIES INC		
155 W MAIN ST BOX 1280		
ROCKVILLE CT 06066		
TXW 710-435-1663	203-872-8581	
M BOBSKILL EMP 300 ENG 30 OVER \$10,000K		
LARK ELECTRONICS INC BOX		
390 FT GEORGE STA NEW YORK		
NY 10040	212-569-0430	
J COLE		
LARK ENGINEERING CO INC		
32961 CALLE PERFECTO		
SAN JUAN CAPISTRANO CA 92675		
TXW 910-596-1411	714-493-9501	
A PINA EMP 70 ENG 9 \$5,000-\$10,000K		
LARGE CORP 4600 PATRICK HENRY DR		
SANTA CLARA CA 95054		
TXW 910-338-7341	408-988-6600	
J DELZER EMP 115 ENG 17 \$5,000-\$10,000K		
CA N Allen Santa Clara	408-988-6600	
FL C Steacy Melbourne	305-452-8850	
IN M O'Grady Ft Wayne	312-653-3300	
NJ P Ferraro Hainesport	609-261-0828	
TX T Ross Dallas	214-369-8986	
LARSEN PRECISION COMPONENTS CORP		
132 NASSAU ST NEW YORK		
NY 10038 TWX 666269	212-233-2491	
FL T Gallagher & Assoc Plantation	305-473-2101	
MA A Jacobson Agawam	617-724-3495	
MN C Steink Plymouth	612-476-0110	
MO WM Mundy St Louis	314-849-0022	
LARSON AERO DEVELOPMENT		
721 CASTRO ST MARTINEZ		
CA 94553	415-228-7870	
M LARSON EMP 15 ENG 3		
LARSON INSTRUMENT CO INC		
GREENBUSH RD ORANGEBURG		
NY 10962	914-359-3800	
G LARSON EMP 18 ENG 2 \$500-\$1,000K		

DISTRIBUTORS

CA Metcraft Inc Irvine..... 714-979-1420
 LASER OPTICS INC BOX 127
 DANBURY CT 06810
 TWX 710-456-0463..... 203-744-4160
 J LARIN EMP 32 ENG 6 \$1,000-\$2,500K

LASER PRECISION CORP 1231
 HART ST UTICA NY 13502
 TWX 646803..... 315-797-4449
 D SYPEK EMP 130 ENG 15 OVER \$10,000K

LASER TECHNOLOGY INC 10624
 VENTURA BLVD N HOLLYWOOD
 CA 91604..... 818-763-7091
 H MCLAUGHLIN EMP 15 ENG 2 \$250-\$500K

LATTICE SEMICONDUCTOR CORP
 15400 NW GREENBRIER PKWY
 BEAVERTON OR 97006 TWX 277338..... 503-629-2131
 P KOLLAR EMP 125 ENG 65

AL Advanced Component Mktg
 Huntsville..... 205-881-5493
 AZ Sheffer-Kahn Co Phoenix..... 602-257-9015
 AR Beacon Electronics Tulsa..... 918-622-1494
 CA H-Technical Sales Garden Grove..... 714-740-0161
 CA Earle Assoc San Diego..... 619-278-0461
 CO Wescom Marketing Wheatridge..... 303-422-8957
 FL Sales Engrg Concepts Deerfield
 Bch..... 305-426-4601

GA Lattice Semi Corp Norcross..... 404-558-2116
 IL Omni Electronic Mktg Barrington..... 312-381-9087
 IA Rush & West Davenport..... 319-326-3091
 KS Rush & West Olathe..... 913-764-2700
 MD Delta III Assoc Columbia..... 301-730-4700
 MA Advanced Technical Sales
 Burlington..... 617-272-0100

MI KRW Sales Ann Arbor..... 313-769-0056
 MN Lattice Semi Corp Bloomington..... 612-831-8248
 MO Rush & West Ballwin..... 314-394-7271
 NJ Lattice Semi Corp West Caldwell..... 201-882-1900
 NM Sheffer-Kahn Co Albuquerque..... 505-345-3591
 NY Lorac Sales Hicksville..... 516-681-8746
 NY T-Squared Elect Co Syracuse..... 315-463-8593
 NC Prime Components Raleigh..... 919-848-8291
 OH KRW Sales Westlake..... 216-871-7521
 PA KRW Sales Oakmont..... 412-261-1323
 TX Beacon Electronics Dallas..... 214-437-1505
 UT Wescom Marketing S L C..... 801-466-9594
 VA Delta III Assoc Midlothian..... 804-272-2497
 WI Omni Elec Mktg Madison..... 608-246-0101
 FR Dynasty Electronics Ontario..... 613-738-1200
 FR Dynasty Electronics Quebec..... 514-620-7734

DISTRIBUTORS

CA Kierulff Electronics/Nationwide..... 714-220-6300

LAURIER ASSOCIATES INC
 9 EXECUTIVE DR HUDSON
 NH 03051 TWX 710-228-1377..... 603-889-8800
 G WOOD EMP 40 ENG 7 \$2,500-\$5,000K

AZ Wadsworth-Bryant Phoenix..... 602-275-7366
 CA Uke Enterprises Orange..... 714-633-0463
 FL Hyber-Sem Ft Pierce..... 305-464-0461
 IN AWI Kokomo..... 317-453-7671
 MA Hunt Assoc Tewksbury..... 617-851-9042
 NY Feikert Assoc Fair Haven..... 315-652-5577
 PA Powell-Pendergraph Inc
 Willow Grove..... 215-657-0330
 WA Demarest Assoc Seattle..... 206-523-3210
 WI Process Technology Hales Corners..... 414-425-2940

L C O A 7311 DOIG DR GARDEN
 GROVE CA 92641 TWX 181-565..... 714-891-3581
 J EVANS EMP 80 ENG 3 OVER \$10,000K

DISTRIBUTORS

AZ Insulectro Scottsdale..... 602-991-2370
 AR Hisco Little Rock..... 501-568-3105
 CA Insulectro Mt View..... 415-969-7010
 CA Insulectro Costa Mesa..... 714-957-8093
 CA Insulectro San Diego..... 619-578-9050
 CO Insulectro Aurora..... 303-344-4451
 CT New Technologies East Hartford..... 203-289-6866
 FL Eastern Laminations Longwood..... 305-834-0346
 GA Atlantech Sales Atlanta..... 404-992-3329
 IL Allen Woods & Assoc Chicago..... 312-635-7400
 MN T K Gray Inc Mnpls..... 612-781-4874
 NY Sentry Mktg Utica..... 315-724-4251
 OH Hodson Machinery Cleveland..... 216-587-4500
 OR Insulectro Portland..... 503-684-1455
 TX Hisco Dallas..... 214-343-8730
 TX Hisco Houston..... 713-683-0311
 TX Hisco Austin..... 512-834-9773
 WA Insulectro Redmond..... 206-885-3800
 FR Mactro Electronics Rexdale ON..... 416-675-0150

L-COM INC 1545 OSGOOD ST
 NORTH ANDOVER MA 01845
 TWX 200-058..... 617-682-6936
 P RABUSKA
 MA Datcom Waltham..... 617-891-4600
 NH Yankee Elect Supply Manchester..... 800-258-5200

LDC/MILTON ROY BOX 10235
 RIVIERA BEACH FL 33404
 TWX 513479..... 305-844-5241
 C LANGWAY EMP 205 ENG 25 OVER \$10,000K

CA LDC/Milton Sunnyvale..... 408-532-4752
 CT LDC/Milton Roy Norwich..... 203-886-2210
 FL Chromtec West Palm Beach..... 305-793-6489
 GA Norchem Assoc Stone Mountain..... 404-981-5390
 HI Hawaii Chemicals Honolulu..... 808-841-4265
 IL LDC/Milton Roy Schaumburg..... 312-884-8220
 NJ LDC Div Milton Roy Englewood
 Cliffs..... 201-461-7781
 OH LDC/Milton Roy Strongsville..... 800-534-4752
 PA Brandywine Assoc Chadds Ford..... 215-459-0177

PA Keystone Scientific State
 College..... 814-234-3545
 TX LDC/Milton Roy Houston..... 713-664-9555
 FR Milton Roy Indus Ltd Peterborough
 ON..... 705-743-6550

DISTRIBUTORS

MA Rainin Inst Co Woburn..... 617-935-3050
 MI Anspec Co Ann Arbor..... 313-665-9666
 OH Munhall Co Worthington..... 614-888-7700

LDJ INC BOX 219 2200 STEPHENSON
 HWY TROY MI 48099
 TWX 810-232-1509..... 313-528-2202
 S BARRY EMP 70 ENG 8

LEACH CORP CONTROL PRODUCTS DIV
 6900 ORANGETHORPE AVE
 BUENA PARK CA 90620
 TWX 910-596-2867..... 714-739-0770
 R ZIMMERMAN EMP 156 ENG 51 OVER \$10,000K

AZ Elec-Corn Assoc Tempe..... 602-967-8644
 CA Halbar Assoc San Mateo..... 415-349-4700
 CA C & W Comp Sales Granada Hills..... 818-368-4032
 CO Dynatech Inc Englewood..... 303-773-2830
 FL Donato & Assoc Orlando..... 305-352-0727
 GA Braudel-Stephens & Co Atlanta..... 404-261-7579
 MD Marktron Inc Rockville..... 301-251-8990
 MA Component Technology Woburn..... 617-933-5390
 MO Baka Corp Wichita..... 316-262-0179
 NJ Leach Corp Englewood Cliffs..... 201-567-6795
 NY R D Sherman Inc Fayetteville..... 315-637-9861
 OH Giesting & Assoc Cincinnati..... 513-521-8800
 PA PSA Inc Treviso..... 215-245-0513
 TX Leach Corp Dallas..... 214-341-0811
 VA Marktron Inc Charlottesville..... 301-460-6100
 WA Leach Corp Bellevue..... 206-746-7263
 FR Robin Aerospace Prod Ltd
 Kirkland PQ..... 514-694-1315

DISTRIBUTORS

AZ Time/AZ Tempe..... 602-967-2000
 CA Time Elec Anaheim..... 714-937-0911
 CA Time Elect West Torrance..... 213-320-0880
 CA Time/Nor Cal Sunnyvale..... 408-734-9888
 FL Time/FL Ft Lauderdale..... 305-974-4800
 GA Electro-Air Corp Atlanta..... 404-351-3545
 MA Time/NE Woburn..... 617-935-8080
 MO Time/Mid-West St Louis..... 214-391-6444
 NY Time/Elect Sales Hauppauge..... 516-273-0100
 PA Time/Mid-Atlantic Clifton Hts..... 215-622-2500
 TX Electro-Air Inc Dallas..... 214-385-0566
 WA Pan Pacific Electronics Redmond..... 206-881-7252

LEACH CORP RELAY DIV 5915
 AVALON BLVD LOS ANGELES
 CA 90003 TWX 910-321-2303..... 213-232-8221
 S WHITCOMB EMP 775 ENG 40

AZ Elec-Corn Assoc Tempe..... 602-967-8644
 CA Halbar Assoc San Mateo..... 415-349-4700
 CA Leach Corp Anaheim..... 714-630-4312
 CO Quorum 3 Denver..... 303-696-8480
 FL Donato & Assoc Orlando..... 305-352-0727
 IL RHL Sales Elgin..... 312-888-0099
 IN Denton Marketing Ft Wayne..... 219-627-5515
 KS Baka Corp Wichita..... 316-682-8411
 MD Marktron Inc Rockville..... 301-251-8990
 MA Component Technology Needham..... 617-449-8490
 MN Compr Tech Sales Mnpls..... 612-888-7011
 MO Leach Corp St Louis..... 314-524-2880
 NJ Leach Corp Englewood Cliffs..... 201-567-6795
 NM Elec-Corn Assoc Albuquerque..... 505-898-6101
 NY R D Sherman Inc East Syracuse..... 315-433-1165
 OH Leach Corp Dayton..... 513-434-8151
 PA PSA Inc Treviso..... 215-245-0513
 TX Leach Corp Dallas..... 214-341-0811
 VA Marktron Inc Charlottesville..... 301-251-8990
 WA Leach Corp Bellevue..... 206-746-7263
 FR Robin Aerospace Prods Ltd
 Kirkland PQ..... 514-694-1315

DISTRIBUTORS

AZ Time/AZ Tempe..... 602-967-2000
 CA Time Elec Anaheim..... 714-937-0911
 CA Time Elect W Torrance..... 213-320-0880
 CA Time/Nor-Cal Sunnyvale..... 408-734-9888
 CA Time Elec Chatsworth..... 818-998-7200
 CA Time San Diego..... 619-566-1331
 CO Time Electronics Englewood..... 303-799-8851
 CT Time Elec Cheshire..... 203-271-3200
 FL Time/Florida Ft Lauderdale..... 305-974-4800
 FL Time/FL Orlando..... 305-841-6565
 GA Electro-Air Corp 2270 Marietta
 Atlanta..... 404-351-3545
 GA Time/GA Norcross..... 404-448-4448
 IL Time/IL Wood Dale..... 312-350-0610
 MD Time/Elec Columbia..... 301-964-3090
 MA Time/NE Peabody..... 617-532-6200
 MN Time/Elec Bloomington..... 612-944-9192
 MO Time/Mid-West St Louis..... 214-391-6444
 NY Time/Elect Sales Hauppauge..... 516-273-0100
 NY Time/NY E Syracuse..... 315-432-0355
 OH Time/Ohio Dublin..... 614-761-1100
 OR Time/Elec Portland..... 503-684-3780
 PA Time/Mid-Atlantic King
 of Prussia..... 215-337-0900
 TX Time/Elec Carrollton..... 214-241-7441
 TX Time/TX Houston..... 713-530-0800
 WA Time/Elec Redmond..... 206-882-1600
 WA Pan Pacific Electronics Redmond..... 206-881-7252

LEADER INSTRUMENTS CORP
 380 OSER AVE HAUPPAUGE
 NY 11788 TWX 510-227-9669..... 516-231-6900
 B STORCH EMP 40 ENG 4
 CA Leader Instruments Corp
 20807 Higgins Ct Torrance..... 213-618-0695

LEA DYNATECH INC 12516
 LAKELAND RD SANTA FE SPRINGS
 CA 90670 TWX 910-586-1381..... 213-944-0916
 A RICH EMP 40 ENG 5 \$1,000-\$2,500K
 AL F M Assoc Huntsville..... 205-536-9990
 AZ Industrial Products Corp Phoenix..... 602-246-8487
 CA Luddy Assoc Mt View..... 415-969-6313
 CO ABCO Inc Boulder..... 303-444-1173
 CT Applied Measurements Hamden..... 203-288-5288
 FL F M Assoc Orlando..... 305-851-5710
 GA F M Assoc Atlanta..... 404-634-7830
 HI R W Campbell Inc Honolulu..... 808-946-1048
 IL Nomad Engineering Chicago..... 312-764-0403
 KY W J Brauer & Assoc Dayton..... 513-277-4957
 LA Fogarty Engrg Sales Gretna..... 504-366-3264
 MD Instrumcom Wash DC..... 202-223-1758
 MA Applied Measurements Acton..... 617-263-2768
 MI Thibodeau Engrg Birmingham..... 313-642-6620
 MN Knox Assoc St Paul..... 612-488-5402
 MO Electro Mechanical Assoc
 Bridgeton..... 314-291-8661

NM Industrial Products Inc Albuquerque..... 505-256-3561
 NY Puleo Electronics Lynbrook..... 516-599-4875
 NY Terry Berry Sales Williamsville..... 716-632-7404
 NC F M Assoc Ramseur..... 919-824-2196
 OH W J Brauer & Assoc Wickliffe..... 216-943-0601
 PA Multi-Measurements Warminster..... 215-675-3082
 SC F M Assoc Ltd Atlanta Ga..... 404-634-7830
 TX Texas Technical Products Houston..... 713-262-0656
 WA R W Campbell Seattle..... 206-622-3403
 FR Teleradio Woodbridge ON..... 416-851-2231

LEAR SIEGLER INC 2850 OCEAN
 PARK BLVD BOX 2158 SANTA
 MONICA CA 90406
 TWX 910-343-6463..... 213-452-5444
 EMP 29700 ENG 1950 OVER \$10,000K

AZ W J Staab Phoenix..... 602-254-5888
 CA R Fuire Anaheim..... 714-774-1010
 CO J L Beattie Englewood..... 303-770-3300
 MI W Stroth Grand Rapids..... 616-241-7000
 MO D Pemberton St Louis..... 314-731-3004
 NJ P Daro Florham Park..... 201-822-1300
 NY C Sikes Rye..... 914-937-5300
 OH C B Bagwell Dayton..... 513-222-5524
 OK A Lenz Okla City..... 405-424-5551
 TX J Beckman Dallas..... 214-247-1212
 VA J Morgan Arlington..... 703-521-1010

LEAR SIEGLER INC DATA PRODUCTS
 DIV 901 E BALL RD ANAHEIM
 CA 92805..... 714-778-3500
 J PORTER OVER \$10,000K

LEAR SIEGLER INC ELECTRONIC
 INSTRUMENTATION DIV 714
 N BROOKHURST ST ANAHEIM
 CA 92801 TWX 910-591-1157..... 714-774-1010
 J HORGAN EMP 275 ENG 50 OVER \$10,000K
 ADV PG 49

CA Qualtronics Bus Bars San Diego..... 619-695-0118
 CA Wedemeyer Sales Sunnyvale..... 408-354-7334
 GA Grady Duckett Bus Bars Atlanta..... 404-451-3529
 IL Maurer Co Bus Bars Evanston..... 312-328-7503
 IN Electronic Sales & Eng
 Inc Bus Bars Indpls..... 317-849-4260
 KY Geotronics Bus Bars Cleveland..... 216-526-2535
 MA L K Harmon & Assoc Bus
 Bars Haverhill..... 617-373-1313
 MI W R Hummon Bus Bars Farmington
 Hills..... 313-474-0661
 MN Paul Ericson & Assoc Bus
 Bars Mnpls..... 612-884-1969
 NJ ABC Electronic Bus Bars
 Williston Park..... 516-747-6610
 NJ Mid-Atlantic Bus Bars Bellmawr..... 609-931-5303
 NY ABC Electronic Bus Bars
 Long Island..... 516-747-6610
 OH Geotronics Bus Bars Cleveland..... 216-526-2535
 TX Alpha Tech Bus Bars Austin..... 512-458-9179
 FR Electronic Pkg Sys Ltd
 Bus Bars Kingston ON..... 613-384-1142
 FR Bicc Vero Elect Bus Bars
 United Kingdom..... 851-47551
 FR Hakuto C Ltd Bus Bars Japan..... 71822912

LEAR SIEGLER INC INSTRUMENT DIV
 4141 EASTERN AVE SE
 GRAND RAPIDS MI 49508
 TWX 810-273-6929..... 616-241-7000
 R DALTRY EMP 1850 ENG 500

CA Lear Siegler LA..... 213-670-0643
 MO Lear Siegler Bridgeton..... 314-731-5881
 OH Lear Siegler Dayton..... 513-222-5524
 OK Lear Siegler Okla City..... 405-424-5551
 TX Lear Siegler Arlington..... 817-640-8865
 UT Lear Siegler Roy..... 801-773-9000
 VA Lear Siegler Arlington..... 703-920-7640
 WA Lear Siegler Bellevue..... 206-454-8190
 FR LSI Int'l Rye, NY..... 914-937-5300

LEAR SIEGLER INC ROMEC DIV
 BOX 4014 ELYRIA OH 44036
 TWX 810-424-2103..... 216-323-3211
 D MEISTER EMP 270 ENG 52
 CA Lear Siegler Inc LA..... 213-776-6070
 MA Lear Siegler Inc Waltham..... 617-899-0570

DISTRIBUTORS

NY LSI Int'l Div Rye..... 914-937-5300
 FR Aircraft Appl & Equip Ltd
 Bramalea Ont..... 416-454-1250

LEASMETRIC INC 1164 TRITON DR
 FOSTER CITY CA 94404
 TWX 910-374-2464..... 415-574-4441
 E MORRIS EMP 500 OVER \$10,000K

LEBOW PRODUCTS/EATON CORP		
1728 MAPLELAWN BOX 1089 TROY		
MI 48099 TWX 810-232-4818	313-643-0220	
M PARKER EMP 108 ENG 12 OVER \$10,000K		
AL Vaughn Electroscources Huntsville	205-881-8830	
CA Sabre Entprs Long Beach	205-595-5696	
CT Pat Jenks Assoc N Haven	203-239-6201	
FL Wade Boggs Maitland	305-647-2226	
IL Comtel/Midwest Chicago	312-539-4838	
IN Comtel/Midwest Indpls	317-253-1681	
IA Comtel/Midwest Cedar Rapids	319-377-9434	
MA Pat Jenks Assoc Wakefield	617-246-1590	
MI Comtel Instr Co Southfield	313-358-2505	
MN Comtel/Midwest Mnpls	612-835-3060	
MO Vertec Assoc Chesterfield	314-394-6242	
NJ Neville & Vespos Inc Bogota	201-487-1505	
NY Maxwell Bennett Assoc Buffalo	716-634-2107	
NC Vaughn Electroscources Durham	919-477-5443	
OH Comtel Instr Co Cleveland	216-442-8080	
PA Roberts Engrg Sales Co Radnor	215-688-6525	
TX Technical Prods Inc Dallas	214-357-9603	
WI Comtel/Midwest Brookfield	414-786-1940	

LECO CORP 3000 LAKEVIEW AVE		
ST JOSEPH MI 49085	616-983-5531	
W STOCKWELL EMP 450 ENG 11 \$1,000-\$2,500K		
CA Leco West 45 Brookhollow Santa Ana		
NV Leco Corp 4350 Arville Las Vegas		
PA Leco Corp 820 Commonwealth Warrendale		
TX Leco Corp 740 Bradford Houston		

LECTROY CORP 700 S MAIN ST		
SPRING VALLEY NY 10977		
TXW 710-577-2832	914-425-2000	
EMP 250 ENG 50 OVER \$10,000K		
CA LeCroy Corp Livermore	415-449-8226	
FL LeCroy Corp Tampa	813-626-1818	
NH LeCroy Corp Manchester	603-627-6303	
NJ LeCroy Corp Pennington	609-737-1162	
NM LeCroy Corp Albuquerque	505-293-8100	
OH LeCroy Corp Middletown	513-422-0112	
VA LeCroy Corp Alexandria	703-751-4148	
WI LeCroy Corp Milwaukee	414-545-6505	

LECTRON INDUSTRIES INC		
117 CHESTNUT ST BOX 317		
ROSELLE NJ 07203		
TXW 710-996-5947	201-245-5558	

LECTROTECH INC 5810 N WESTERN		
AVE CHICAGO IL 60659	312-769-6262	
S GROSSMAN EMP 35 ENG 4 \$1,000-\$2,500K		

LEDCO DIV WILBRECHT ELCTNS INC		
240 PLATO BLVD ST PAUL		
MN 55107 TWX 910-563-3679	612-222-2791	
L WILBRECHT EMP 25 ENG 3 \$500-\$1,000K		
AL Alpha Mktg Huntsville	205-533-0766	
CA Pass Assoc Sunnyvale	408-735-9040	
FL Gallagher & Assoc Plantation	305-473-2101	
IL RMP/McBride Corp Lombard	312-932-9090	
IN C-S Elctn Sales Frankfort	317-659-1874	
MA SIR Assoc Bedford	617-275-5550	
MN Lestronix St Louis Pk	612-926-8466	
MO F P Williams & Assoc Kansas City	816-471-1617	
NY Carl D Truax Assoc Fulton	315-592-7184	
NY J.L.H Sales Bay Terrace	718-224-1067	
NC Tingen Technical Sales Raleigh	919-781-1100	
PA Stitzer Assoc Paoli	215-644-5500	
TX Hite Elctn Sales Arlington	817-265-2912	
WA Comtec Bellevue	206-453-1188	

DISTRIBUTORS		
CA National Electro Sales Van Nuys	213-781-0505	
CO Integrated Elect Denver	303-534-6121	
CA CID Tucker	404-491-3143	
MN Joel Co Hopkins	612-935-6202	
MN Stark Elect Mpls	612-332-1325	
MN Northern Elect Supply Mpls	612-944-1167	
NY Modutec Rochester	716-647-9700	
OR Repron/Oh Elect Columbus	614-636-6675	
OR Rose Elect Lake Oswego	503-635-8823	
WA Intersten Elect Kent	206-872-5800	
FR Carsten Elect Scarborough ON	416-751-5095	
FR Repco Eng Co Willowdale ON	416-493-0686	
FR Repco Engi Co Pte Claire PQ	514-694-1877	

LEDEX INC ELECTROMECHANICAL PRODS		
801 SCHOLZ DR BOX 427		
VANDALIA OH 45377		
TXW 810-450-2526	513-898-3621	
TRISTOFF EMP 500 ENG 30		
AL A B Andrews & Co Huntsville	205-539-6817	
AZ Arcorn Sales Scottsdale	602-947-5745	
CA Testco Saratoga	408-253-1900	
CA Interstate Mktg Assoc Woodland Hills	818-883-7606	
CO Front Range Mktg Boulder	303-443-4760	
CT SIR Assoc Bloomfield	203-243-9343	
FL Technology Mktg Assoc Pompano Bch	305-942-0774	
IL Control Sales Elk Grove Vlg	312-595-2110	
IN Valentine & Assoc Greenwood	317-888-2260	
KS Thunderbird Tech Sales Wichita	316-684-3941	
MA SIR Assoc Westford	617-992-2500	
MI Hilltronics Inc Ferndale	313-398-5556	
MN Merrill Franklin Co Bloomington	612-854-9446	
MO Thunderbird Tech Sales Maryland Hts	314-567-6488	
NY KLM-Garner Co Clark Mills	515-853-6126	
NY Bittan Assoc Oceanside	516-678-6222	
NC A B Andrews Co Rsch Triangle Pk	919-544-1762	
OH Del Steffen & Assoc Dayton	513-293-3145	
OK Ion Assoc Tulsa	918-664-0186	
PA Freedman-Malta Assoc King of Prussia	215-337-9211	
TX Ion Assoc Grand Prairie	214-647-8225	
UT Front Range Mktg SLC	801-364-6481	
VA A B Andrews Co Vinton	703-890-1128	
WA Testco Bellevue	206-454-7422	

WI Control Sales Thiensville	414-242-4580
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LEDTRONICS INC 4009 PACIFIC		
COAST HWY TORRANCE CA 90505		
TXW 4945454	213-676-7996	
EMP 8 ENG 1 \$250-\$500K		
CA Cummings & Assoc Santa Clara	408-297-8656	
IN Schank Elect Mktg Indpls	317-842-6204	
MI Schank Elect Mktg Detroit	313-838-2148	
MO Acorn Electronics St Louis	314-644-2510	
NE Creative Concepts Lincoln	402-474-2033	
PA H C Johnson Agencies Glenshaw	412-487-1246	

LEDU CORP DATA PRINTER DIV		
25 LINDEMAN DR BOX 358		
TRUMBULL CT 06611	203-371-5500	
IISDALE EMP 60 ENG 4 \$5,000-\$10,000K		

LEECCRAFT MFG CO INC 21-02		
44TH RD LONG ISLAND CITY		
NY 11101 TWX 710-582-2897	718-392-8800	
T MARINE EMP 250 ENG 10 \$2,500-\$5,000K		

LEEDS & NORTHRUP INSTRUMENTS		
SUMNEYTOWN PIKE NORTH WALES		
PA 19454 TWX 846191	215-643-2000	
R SNYDER		

AL Leeds & Northrup Co Birmingham	205-823-2610
AZ Leeds & Northrup Co Tempe	602-966-3870
CA Leeds & Northrup Co Orange	714-937-1647
CA Leeds & Northrup Co San Mateo	415-349-6656
CO Leeds & Northrup Co Denver	303-759-2701
CT Leeds & Northrup Co Avon	203-678-0270
DE Leeds & Northrup Co Claymont	302-792-0200
DC Leeds & Northrup Co Washington	301-621-5245
FL Leeds & Northrup Co Lakeland	813-646-5014
GA Leeds & Northrup Co Atlanta	404-938-8946
HI Applied Tech Services Kailua	808-486-0195
IL Leeds & Northrup Co Chicago	312-430-1130
IN Leeds & Northrup Co Indpls	317-259-7161
IA Leeds & Northrup Co Davenport	319-355-6481
KS Leeds & Northrup Co Shawnee Mission	913-432-3727
KY Leeds & Northrup Co Louisville	502-897-0631
LA Leeds & Northrup Co Baton Rouge	504-292-6606
ME Leeds & Northrup Co Portland	207-774-6266
MD Leeds & Northrup Co Columbia	301-995-0494
MA Leeds & Northrup Co Dedham	617-326-8816
MI Leeds & Northrup Co Farmington Hills	313-851-7171
MN Leeds & Northrup Co Minnetonka	612-933-7372
MO Leeds & Northrup Co St Louis	314-965-9200
NE Leeds & Northrup Co Omaha	402-895-0886
NJ Leeds & Northrup Co Union	201-686-5200
NM Trembley Assoc Albuquerque	505-266-8616
NY Leeds & Northrup Co Latham	518-785-1354
NY Leeds & Northrup Co Buffalo	716-834-5547
NC Leeds & Northrup Co Winston-Salem	919-765-6580
OH Leeds & Northrup Co Cincinnati	513-791-2274
OK Leeds & Northrup Co Tulsa	918-622-4515
OR Leeds & Northrup Co Portland	503-224-8848
PA Leeds & Northrup Co Pittsburgh	412-561-7808
SC Leeds & Northrup Co Columbia	803-798-4230
TN Leeds & Northrup Co Knoxville	615-693-1838
TX Leeds & Northrup Co Houston	713-590-1777
UT Leeds & Northrup Co SLC	801-266-6931
VA Leeds & Northrup Co Richmond	804-276-9720
WA Leeds & Northrup Co Bellevue	206-451-9028
WV Cavalier Controls Charleston	304-342-0385
WI Leeds & Northrup Co Milwaukee	414-786-7788

LEEPOXY PLASTICS INC 3324		
FERGUSON RD FORT WAYNE		
IN 46809	219-747-7411	
R STACY EMP 7 ENG 1 \$1,000-\$2,500K		

LEIGHTON ELECTRONICS INC		
BOX 328 LEIGHTON PA 18235		
TXW 757022	215-377-5990	
EMP 65 ENG 2 \$1,000-\$2,500K		
CA Romar Intl Covina	818-332-8548	
CA Mega Sales San Jose	408-281-1911	
DE Electro Tech Sales Wilmington	302-764-2189	
NJ C F Electronics Somerville	201-722-8275	
TX R S Marston Co Richardson	214-235-3257	

LEKTRALAB TECHNOLOGIES INC		
129-07 18 AVE COLLEGE POINT		
NY 11356	212-939-7171	
A ROSS EMP 20 ENG 1 \$250-\$500K		

LEMO USA INC BOX 11006		
SANTA ROSA CA 95406		
TXW 340-933	707-578-8811	
D BATTAGLIA EMP 13		
AL Hollingsworth & Still Mobile	800-241-5712	
CA Balzer-Wolf Assoc Costa Mesa	714-751-3001	
CA Balzer-Wolf Assoc San Diego	619-695-9131	
CO Omega Ltd Englewood	303-762-1921	
FL Hollingsworth & Still Plant City	800-241-5712	
GA Hollingsworth & Still Norcross	404-447-1700	
IL Raines & Assoc Northbrook	312-498-0890	
IA M-S-B Assoc Marion	319-377-6261	
KS M-S-B Assoc Shawnee Mission	913-432-2131	
MA Zieco Inc Lexington	617-861-8300	
MI Jack Thorpe Co East Detroit	313-779-6363	
MN Electro-Tech Mnpls	612-927-5878	
MO M-S-B Assoc St Charles	314-946-5577	
NM Trembley Assoc Albuquerque	505-266-8616	
NC Hollingsworth & Still Kernersville	800-241-5712	
OH KT/Depco Cleveland	216-442-6200	
OR Earl & Brown Co Portland	503-245-2283	
PA Jacobson Assoc Hatboro	215-674-2937	
TX Jim Hughes Co Lewisville	214-221-1536	
VA Beacon North Inc Fairfax	703-591-1300	
WA Earl & Brown Co Seattle	206-284-1121	

LENCO ELECTRONICS INC 1330		
BELDEN ST MCHENRY IL 60050	815-344-2900	
L DUNCAN EMP 160 ENG 3 \$5,000-\$10,000K		

LENOX-FUGLE ELECTRONICS INC		
100 SYLVANIA PL SOUTH		
PLAINFIELD NJ 07080	201-756-1164	
H LENOX EMP 25 ENG 2 \$500-\$1,000K		
CA Inductor Supply Inc Garden Grove	714-891-4524	
CT Kimble Assoc Co New Fairfield	203-746-6011	
FL Ludlum Assoc Orlando	894-7761	
IL L-Tec Inc Chicago	286-1500	
NY Jack Brown Elec Sales Reps Yonkers	779-7330	
PA Paragon Sales Co Philadelphia	LO 3-7060	

LENOX INSTRUMENT CO INC		
265 ANDREWS RD TREVOSE		
PA 19047 TWX 710-670-1440	215-322-9990	
J LANDERS EMP 40 ENG 3		
CA VC Ultrasonics Canoga Pk	213-888-2708	
CO Energy Equipment Sales Conifer	303-674-8111	
CT Mooney Sales Shelton	203-736-2445	
IL Borko Co Warrenville	312-393-2808	
MO Stantec Sales Co Platte City	816-431-2211	
OR X-Ray Products Corp Portland	503-659-9943	
TX Whitson Sullivan Houston	713-893-5247	
VA Eastern NDT Hopewell	804-458-1661	

DISTRIBUTORS		
CT Inspec Products Woodstock	203-928-2448	
MI PML Services Warren	313-754-1820	
OH Wm Holden Co Fairfield	513-829-6088	
PA R Brown Bridgeville	412-221-2112	

LENSCLEAN INC 74 LOUIS CT		
SOUTH HACKENSACK NJ 07606		
TXW 710-989-7260	201-641-7555	
B PIERSON EMP 150		

LENZ ELECTRIC MFG CO 1751		
N WESTERN AVE CHICAGO		
IL 60647	312-276-4454	

LEONARD ELECTRIC PRODUCTS CO		
85 INDUSTRIAL DR BROWNSVILLE		
TX 78521	512-546-1625	
A SMITH EMP 200 ENG 4 \$5,000-\$10,000K		
CA Logan Sales Santa Clara	408-496-0660	
FL Gillum Sales Orlando	305-857-2110	
IL Russell Co Arlington Hts	312-394-5560	
NJ F F Sylvester Assoc Springfield	201-376-3324	
NY F F Sylvester Assoc Coram	516-473-2018	
NC RFS Marketing Cary	919-469-4510	
OH Engineered Indus Sales Cleveland	216-371-4350	
TN J & B Sales Co Tusahoma	615-455-7487	

LEPEL CORP 59-21 QUEENS-MIDTOWN		
EXPWY MASPETH NY 11378		
TXW 12303	212-426-4580	
R SUTTON EMP 220 ENG 15 \$5,000-\$10,000K		
CA Lepel Corp Anaheim	714-634-1898	
CA Lepel Corp Los Gatos	408-395-2023	
GA Lepel Corp Marietta	404-424-1588	
IL Lepel Corp Elmhurst	312-832-4225	
IN Processing Equip Co Indpls	317-253-9400	
MA Eastern Appliance Co Wakefield	617-245-8530	
MI E L Kemper & Assoc Mt Clemens	313-468-9797	
MN Chas W Stone Co Mnpls	612-870-8104	
MO Beaco Equip Co St Louis	314-965-8606	
OK Marsuco Tulsa	918-584-5271	
TN Applied Thermal Sys Chattanooga	615-265-3862	
TX Selle Alloys & Equip Houston	713-524-3013	
WA Eustis Co Seattle	206-623-7060	
FR A F Mundy Rexdale ON	416-745-6976	

LESTRONICS INC 1840 INDUSTRIAL		
CIR LONGMONT CO 80501	303-443-6250	
J SAATHOFF EMP 75 ENG 2 \$5,000-\$10,000K		
AZ Toward Eng Assoc Phoenix	602-955-3193	
CA S & K Assoc Laguna Niguel	714-643-1057	
MA Benoit-Senechal Co Palmer	413-282-8348	
MN Willman & Assoc Brooklyn Ctr	612-566-5010	
TX Dean Assoc Dallas	214-458-1321	

LEUPOLD & STEVENS INC BOX 688		
BEAVERTON OR 97075		
TXW 15-1227	503-646-9171	
N LEUPOLD JR EMP 450 ENG 12 OVER \$10,000K		

LEVITON MFG CO INC 59-25		
LITTLE NECK PKWY LITTLE NECK		
NY 11362 TWX 710-582-2632	212-229-4040	

LEWIS CORP 324 CHRISTIAN ST		
OXFORD CT 06483		203-264-3100
K ALLEN EMP 41 ENG 6 \$2,500-\$5,000K		
CO	J Helmtach Englewood	303-779-1168
FL	Ludlum Assoc Miami	305-592-6523
IL	Republic Equip Co Chicago	312-248-7525
IA	D C Regan Co Davenport	319-322-7734
MD	H R Seiber Co Silver Spring	301-589-9110
MN	Tonka Tech Labs Mnpls	612-922-9333
NJ	WKW Assoc Tenafly	201-567-6382
NY	S F Foster Co Fayetteville	315-637-5427
NC	Raddco Co Winston Salem	919-722-9671
TX	Fil-Clean Corp Houston	713-682-3782
WA	A E Creek & Assoc Bellevue	206-544-7474
WI	Northwest Machine Co Mequon	414-241-3444
FR	Water Metals Prods Niagara Falls ON	416-356-4925

IL Lexidata Arlington Hts. 312-394-3901
MD Lexidata Columbia 301-596-4200
TX Lexidata Houston 713-561-6900

DISTRIBUTORS

FR Computer Aided Design Sys
Nepean ON 613-225-0411

LEYBOLD-HERAEUS TECHNOLOGIES INC

1876 HARTOG DR SAN JOSE
CA 95131 TWX 955 344 408-294-7759
EMP 48 ENG 17 OVER \$1,000K
CT Leybold-Heraeus Enfield 203-741-2267

LFE CORP INSTRUMENTS DIV

55 GREEN ST CLINTON MA 01510
TWX 710-347-1734 617-835-1000
D SNYDER EMP 450 ENG 40 OVER \$10,000K

AL Spader & Assoc Birmingham 205-879-1366
AZ O'Donnell Assoc Phoenix 602-944-9542
CA Mollard Mktg Palo Alto 415-961-0456
CA Esco Fullerton 714-879-7260
CO Westenn Sales Englewood 303-798-0945
CT Burton Forrester Assoc Hamden 203-248-4380
FL Par Assoc Ind Rock Beach 813-596-8841
GA Par Assoc Atlanta 404-391-9117
IL Rockford Controls Co Downers Grove 312-960-2046
IN Rockford Controls Co Indpls 317-248-2518
KS R L Weisheimer & Assoc Shawnee Mission 913-262-1919
MD Precision Mktg Group Baltimore 301-799-4816
MA Burton Forrester Assoc Braintree 617-848-7234
MI Barnum Co Brighton 313-229-2961
MN Twist Co Bloomington 612-835-2120
NJ Applied Process Instr W Orange 201-325-2511
NM O'Donnell Assoc Albuquerque 505-883-1030
NY D & O Engrg Co Youngstown 716-754-7650
NY D & O Engrg Co Cazenovia 315-655-8602
NC PAR Assoc Charlotte 704-375-9403
OH RPM Indus Sales Chagrin Falls 216-247-3295
OK Kemp Engineering Tulsa 918-663-4501
PA Greye Glass Assoc Ingomar 412-366-6664
TX Kemp Engineering Houston 713-466-1465
WA Compntronic Seattle 206-284-4842
WI Rockford Controls Co West Bend 800-323-1042

DISTRIBUTORS

AL M G Electronics Birmingham 205-328-4525
AL Brownell Electro Mobile 205-479-8581
AL Brownell Electro Birmingham 205-323-4761
AZ Metermaster Phoenix 602-437-1425
AR Brownell Electro Little Rock 501-562-2061
CA Metermaster LA 213-685-4340
CA Standard Meter Lab Dublin 415-828-4837
CA Western Electro-Mechano Oakland 415-452-1936
CA Westlab Inc Brea 714-993-2150
CA EIL Instruments Los Angeles 213-685-7020
CA Meter Craft Inc Irvine 714-261-7135
CA B J Wolfe Entprs N Hollywood 213-877-5518
CA ICC Inst Co Santa Ana 714-540-4966
CA Pathways Thermal Tech City of Industry 818-330-3856
CO ReR Auroa 303-340-8728
CO EIL Instruments Denver 303-534-4160
CO Newark Electronics Denver 303-757-3351
CO Meter Master Denver 303-722-5766
CT EIL Instruments Middletown 203-346-6646
FL Southern Instru & Contr Sys Edgewater 904-427-3963
FL Brownell Electro Orlando 305-843-6770
FL Brownell Electro Tampa 813-885-6002
GA Process Measurement Co Atlanta 404-696-7481
GA Brownell Electro Atlanta 404-762-5181
GA Metermaster Norcross 404-446-0166
IL EIL Instruments Bridgeview 312-430-2292
IL G & E Instruments Downers Grove 312-953-9622
IL Newark Electronics Chicago 312-638-4411
IL Pacific Indicator Countryside 312-352-3500
IN EIL Instruments Indpls 317-545-1373
IN Graham Elect Indpls 317-634-8202
IN Graham Electronics Fort Wayne 219-423-3422
IN Pioneer Instruments Indpls 317-849-7300
KS Kriz Davis Co Wichita 316-267-4354
KY Process Msmnt Co Shawnee Mission 913-384-2064
LA EIL Instruments Louisville 502-545-3420
LA Curries & Rover Inc New Orleans 504-734-1147
LA Industrial Instru Wks New Orleans 504-733-8355
MD Pioneer Inst Gaitersburg 301-948-2242
MD EIL Inst Inc Sparks 301-771-4800
MD Sunshine Scientific Instr Baltimore 301-661-5900
MA Calibron Corp Waltham 617-894-6440
MA Control Engrg Inc W Springfield 413-781-1330
MA Brownell Electro Woburn 617-935-7820
MA EIL Instruments Burlington 617-272-9450
MI George Inst Co Royal Oak 313-280-1111
MI Newark Electronics Oak Park 313-967-0600
MI Ram Meter Inc Ferndale 313-398-6767
MN Process Measurement Co Mnpls 612-544-4035
MN Instrumentation Serv Mnpls 612-544-8916
MO ISL Corp St Louis 314-535-5760
MO C & S Instruments St Louis 314-383-4445
MO ISL Corp Kansas City 816-587-5400
NE Process Measurement Co Omaha 402-734-2600

NJ Miscorp Belleville 201-751-1190
NJ Brownell Electro Edison 201-287-2030
NJ EIL Instruments Pennsauken 609-488-0474
NM Walker Radio Co Albuquerque 505-883-2992
NY Mettermod Inst Long Island 212-726-4850
NY Trott Elect Clarence 716-634-8500
NY EIL Instruments Hauppauge 516-231-6333
NY Trott Electronics Pittsford 716-586-8251
NY WEI Inc Liverpool 315-652-8111
NC Brownell Electro Charlotte 704-597-1270
NC Brownell Electro Raleigh 919-876-6524
NC Systems Service Corp Charlotte 704-377-3407
NC Trott Electronics Charlotte 704-376-2237
OH Pioneer Instr Cleve 216-587-3600
OH Fee & McCarthy Toledo 419-535-3163
OH Pioneer Instr Dayton 513-236-9900
OH Cincinnati Controls Inc Cincinnati 513-421-4460
OH Metermaster/Christie Labs Cleveland 216-651-4100
OH EIL Instruments Dayton 513-435-2134
OH Marlin Mfg Corp Cleveland 216-941-6200
OK Process Measurement Co Tulsa 918-584-1545
OK Intok Corp Tulsa 918-627-1500
OR Eicher-Richards Co Beaverton 503-221-1123
OR Tempres Mgmt & Cont Portland 503-653-1424
PA Sunshine Scien Phila 215-673-5600
PA CAM Instrumentation Pittsburgh 412-963-1885
PA EIL Instruments Pittsburgh 412-731-5230
PA Meter Sales & Calibration Phila 215-726-7726
SC Brownell Inst & Cont Columbia 803-776-6111
TN Brownell Electro Memphis 901-795-8487
TN Brownell Electro Nashville 615-889-8230
TN Brownell Electro Knoxville 615-966-3441
TX Quality Inst Lab Houston 713-204-0528
TX Brownell Instruments Houston 713-694-2771
TX Metermaster Garland 214-271-5671
TX Butler & Land Houston 312-784-5100
TX Dallas Meter-Tek Sply Dallas 214-349-6044
TX EIL Instruments Houston 713-271-3100
TX EIL Instruments Dallas 214-931-1236
TX Meter & Instrument Corp Houston 713-644-1631
UT Newark Electronics S L C 801-484-8611
VA Century Control Systems Roanoke 703-992-5100
VA EIL Instruments Virginia Beach 804-499-3746
VA Carotek Inc Richmond 804-323-0312
VA EIL Instr Springfield 703-569-2611
VA Meter Metrics Richmond 804-275-1431
WA Eicher Richards Co Seattle 206-523-7888
WA EIL Instruments Seattle 206-575-1888
WI E-M Instr Co Milwaukee 414-272-7799
WI Instrumatics Inc Waterford 414-534-5188
FR EIL Instruments Mississauga ON 416-624-6660
FR Lisle Metrix Toronto ON 416-249-9151

L-H RESEARCH INC 14402

FRANKLIN AVE TUSTIN CA 92680
TWX 910-595-2540 714-730-0162
J BONORA EMP 750 ENG 60 OVER \$10,000K

LIBERTY CONTROLS INC 500

BROOKFOREST AV SHOREWOOD
IL 60435 815-725-2241
C STRAIN EMP 65 ENG 2 \$1,000-\$2,500K
CA HMC Inc Temple City 213-285-0485
CA Ault Assoc Ltd Redwood City 415-367-1710
CO Dynatech Englewood 303-773-2830
FL Bolton Assoc Pompano Beach 305-781-8887
IL Goldbeck Milota Palatine 312-705-0602
IA Dy-Tronix Inc 23 Twixtown Rd E Cedar Rapids 319-377-8275
MA A & M Electronics 1492 Highmond Needham 617-444-8170
MI R P Urban Assoc 1119 Burton SE Grand Rapids 616-245-0511
MN Countryman Assoc 1821 University St Paul 612-645-9151
MO Dy-Tronix Inc 3407 Bridgeland Bridgeton 314-291-4777
NY BRS Sales Assoc Rochester 716-586-1522
NY Mason-Esco Inc Hauppauge 516-273-3500
OR SPS Electronics Portland 505-297-6919
TX Reese & Assoc Dallas 214-351-0703
UT Dynatech Inc Box 606 Layton 801-546-4837
WA SPS Electronics Redmond 206-323-4140

LIBERTY COPPER & WIRE DIV

MAGNETEK INC 2333 W WISCONSIN AVE DOWNERS GROVE IL 60515
TWX 728408 312-969-7660
A RICHTER EMP 75 ENG 5

LIBERTY MIRROR DIV / LOF GLASS

851 3RD AVE BRACKENRIDGE
PA 15014 TWX 510-467-4624 412-224-1800
M WENZLER EMP 225 ENG 6 \$5,000-\$10,000K
ADV PG 297

NJ Liberty Mirror Parsippany 201-267-1360
OH Liberty Mirror Columbus 614-457-0270
TX Liberty Mirror Carrollton 214-484-9210

LIEBERT CORP PROGRAMMED POWER DIV

995 BENICIA AVE SUNNYVALE
CA 94086 TWX 499-1039 408-245-8900
C HARRIS EMP 200 ENG 25 OVER \$10,000K

LIGHT FABRICATIONS INC

1040 JAY ST ROCHESTER
NY 14611 716-235-6310
J CUCINELLI EMP 23 ENG 3 \$1,000-\$2,500K
FL Hanson Assoc Melbourne Bch 305-727-7474
HI Chuck Atwater Assoc Wheaton 312-653-5701
NH Dean Westover Assoc Milford 603-673-9355
NY John Giovenco Assoc Webster 716-671-8520

DISTRIBUTORS

IL Prehler Chicago 312-384-6100
IN Essex Group/IWI Ft Wayne 219-481-4777
NJ E H Canis Metuchen 201-549-5172

LIGHTWAVE COMMUNICATIONS INC

650 DANBURY RD RIDGEFIELD
CT 06877 TWX 710-467-0699 203-438-359
D MCCAULEY ENG 2
LA Rise Inc Baton Rouge 504-766-4645

LIGHTWAVE TECHNOLOGIES INC

6737 VALJEAN AVE VAN NUYS
CA 91406 TWX 910-495-2083 818-786-7873
F DABBY

LIKEN INDUSTRIES 2822 D

WALNUT AVE TUSTIN CA 92680
TWX 910-335-1237 714-832-9229
N DUDEK EMP 5 ENG 2

LINCOLN INSTRUMENTS INC

456 W MONTANA ST PASADENA
CA 91103 818-798-0733
D CARDOZA EMP 12 ENG 2 \$500-\$1,000K
CO RMS Sales Westminster 303-429-1111
NJ Markey Instrumentation Cherry Lane 609-667-3809
NY Langston Instr Wycoff 201-848-0288
OH Tiby Co Cleveland 216-371-5355

DISTRIBUTORS

CA FLW Inc Costa Mesa 714-751-7512
TX FLW Inc Houston 713-941-7265
FR B H McGregor Toronto ON 416-677-1431

LINDBERG/CYCLE-DYNE UNIT

GEN SIGNAL 2450 W HUBBARD ST
CHICAGO IL 60612 TWX 25-4079 312-942-2500
P BAUNACH EMP 50 ENG 6

AZ Mercury Engrg Sales Phoenix 602-244-0123
CA Wank Tech Los Altos 415-941-3339
IN Lindberg/Cycle-Dyne Indpls 317-924-1313
KS Lindberg/Cycle-Dyne Prairie Vlg 913-649-3515
MA Glenn Colburn Co Salisbury 617-462-7812
MI Lindberg/Cycle-Dyne Birmingham 313-851-2013
MN Thermal Sys Engrg Hastings 612-437-1353
MO John E Metz Co St Louis 314-993-1977
NY Ferrotherm Rochester 716-461-5270
NC Lindberg/Cycle-Dyne Denver 704-483-3817
OH Jay Industrial Co Cleveland 216-831-0393
PA Lindberg/Cycle Dyne Levittown 215-356-6900
TN Systems Engrg Nashville 615-227-2803
TX Systems 1 Inc Houston 713-956-5800
WI Badger Specialists Sales West Allis 414-476-8362

LINDBURG ENTERPRISES INC

9707 CANDIDA ST SAN DIEGO
CA 92126 TWX 910-335-2057 619-566-5656
E LINDBURG EMP 20 ENG 3 \$1,000-\$2,500K

DISTRIBUTORS

CA Coat Elec San Diego 714-233-6373
OK C E D Timberline Tulsa 918-622-8578
UT Applied Automation SLC 801-486-8791
FR I C I Montreal PQ 514-684-3198

LINDGREN R F ENCLOSURES INC

1228 CAPITOL RD ADDISON
IL 60101 TWX 254708 312-628-9100
W CURRAN EMP 50 ENG 5 \$5,000-\$10,000K
ADV PG 87

CA Wallace & Wallace Santa Fe Springs 213-945-2908
CO Westek Data Products Lakewood 303-237-5001
FL Brennan Assoc Clearwater 813-446-5000
GA SKOR Doraville 404-395-9641
ID Alster Communications Boise 208-362-1272
IL Electronic Inst Assoc Park Ridge 312-298-2290
MN Electronic Inst Assoc Mnpls 612-374-5628
NJ Gordon & Wallach Ocean 201-922-3014
NM Industrial Prods Corp Albuquerque 505-256-3561
OH Thomas Shelby & Co St Marys 419-394-3377
OR Alster Communications Hillsboro 503-640-4819
SC Bill Brown Co Tucker 404-939-7075
TX Tech Rep Mktg Dallas 214-241-2434
UT Westek Data Products SLC 801-261-0999
VA Tech Reps Inc Springfield 703-569-6868
WA Alster Communications Olympia 206-754-7965

LINDSAY STRUCTURES DIV INTL

STEEL CO 1321 EDGAR ST
EVANSVILLE IN 47733 812-425-3311
R COLLIER EMP 125 ENG 2 \$5,000-\$10,000K
CA Thornton Assoc 714-546-4107
DC Comsearch Inc Herndon VA 703-471-8035



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OK	Automatic Engr Inc	918-585-5705
LINEAR INSTRUMENTS CORP		
	500 EDISON WAY RENO NV 89502	
	TXW 170044	702-786-3636
	K WEINBERGER EMP 85 ENG 5 \$2,500-\$5,000K	
DISTRIBUTORS		
CA	Tegal Scientific Concord	415-827-1054
CO	Process Controls Inc Lakewood	303-232-4996
FL	Southeastern Scientific Orlando	305-299-4188
IL	Serco Inc Deerfield	312-945-8180
IL	E A Warner & Assoc Chicago	312-631-6778
MN	R J & Assoc St Paul	612-645-0390
MO	P J Cobert Assoc St Louis	314-423-8388
NY	Harvey Instruments Buffalo	716-874-6694
OH	Munhall Co Worthington	614-888-7700
OH	Hanner & Noyer Cleveland	216-835-2900
PA	Labreco Southampton	215-357-4357
TX	Scientific Marketing Georgetown	512-863-9845
WA	Calvert Controls Inc Medical Lake	509-244-3601

LINEAR MOTIONS CO 17025	
DUBESOR ST VALINDA CA 91744	818-918-7806
L WOLBY EMP 6 ENG 1	

LINEAR NETWORKS CO BOX 775	
WESTMINSTER CA 92684-0775	213-430-9342
J HOGIN EMP 7 ENG 3 UP TO \$100K	

LINEAR TECHNOLOGY CORP		
	1630 MCCARTHY BLVD MILPITAS	
	CA 95035 TWX 499-3977	408-942-0810
	S PASS EMP 200 ENG 40	
AZ	Montgomery Mktg Inc Huntsville	205-830-0498
AL	Tusar Scottsdale	602-998-3688
CA	Harvey King Inc San Diego	619-566-5252
CA	Emerging Tech Sales Santa Clara	408-727-1771
CA	Waugaman Assoc Wheatridge	303-423-1020
CO	NE Tech Sales Meriden	203-237-8827
FL	Semtronix Assoc Altamonte Springs	305-831-8233
GA	Montgomery Mktg Inc Norcross	404-447-6124
IL	Micro Sales Inc Arlington Hts	312-956-1000
IN	Leslie M DeVoe Co Indpls	317-842-3245
IA	Gannett & Clark Co Hiawatha	319-393-5763
MD	Delta III Assoc Columbia	301-730-4700
MI	NE Tech Sales Burlington	617-272-0434
MN	Favco Inc Birmingham	313-644-0173
MO	Rockmore Sales Eden Prairie	612-941-1390
MO	Midwest Tech Sales St Charles	314-441-1012
NJ	Tritek Sales Inc Haddonfield	609-429-1551
NM	Nelco Electronix Albuquerque	505-293-1399
NY	Lorac Sales Inc Hicksville	516-681-8748
NY	T-Squared Electronics Syracuse	315-463-8592
NC	Montgomery Mktg Inc Cary	919-467-6319
OH	Omega Sales Centerville	513-434-5507
OH	Micro Sales Inc Aloha	503-642-1818
TX	Technology Sales Co Dallas	214-380-0200
TX	Waugaman Assoc SLC	801-261-0802
WA	Micro Sales Inc Bellevue	206-451-0568
WA	Micro Sales Inc Menomonee Falls	414-251-0151
WA	Longman Sales Inc Kirkland	414-694-3911
WA	Longman Sales Inc Mississauga ON	416-677-8100

DISTRIBUTORS		
AZ	Marshall Industries Tempe	602-968-6181
CA	Marshall Industries Milpitas	408-943-4600
CA	Marshall Industries Chatsworth	818-999-5001
CA	Marshall Industries Denver	303-427-1818
CA	Marshall Industries Wallingford	203-265-3822
CA	Marshall Industries Orlando	305-841-1878
CA	Marshall Industries Norcoras	404-923-5750
CA	Marshall Industries Schaumburg	312-490-0155
CA	Marshall Industries Indpls	317-297-0483
MD	Marshall Industries Baltimore	301-840-9450
VA	Marshall Industries Burlington	617-272-8200
VA	Marshall Industries Livonia	313-525-5850
VN	Marshall Industries Edina	612-559-2211
VN	Marshall Industries Moorestown	609-234-9100
VN	Marshall Industries Fairfield	201-882-0320
VN	Marshall Industries Rochester	516-273-2424
NC	Marshall Industries Winston Salem	919-878-9882
OH	Marshall Industries Dayton	216-248-1788
OH	Marshall Industries Beaverton	503-644-5050
PA	Marshall Industries Pittsburgh	412-963-0441
TX	Marshall Industries Dallas	512-837-1991
WA	Marshall Industries Bellevue	206-747-9100

LINEAR TECHNOLOGY INC BOX	
489 STN A BURLINGTON	
ON L7R 3Y3 TWX 061-8525	416-632-2996
S BAYDAR EMP 165 ENG 50 OVER \$10,000K	

LINE-MASTER PRODUCTS 14507	
S HAWTHORNE BLVD LAWDALE	
CA 90260	213-772-5255
J WARREN EMP 8 ENG 1 \$1,000-\$2,500K	
IL BCI Inc Huntsville	539-4411
IL Mar-Tech Tempe	968-4944
IL Cask Assoc Sunnyvale	245-9130
IL VT Horncastle & Assoc	
Laguna Bch	545-1211

CO	Arrowhead Sales Corp Denver	423-5556
CT	Technical Instruments Inc Bridgeport	36-8-4582
GA	BCI Inc Chamblee	455-0405
IL	Marsland Assoc Des Plaines	298-2620
IN	Marsland Assoc Indpls	293-5437
MD	W A Brown Equip-Comp Lanham	577-6105
MA	Technical Instruments Wilmington	944-3930
MN	Marsland Assoc Minneapolis	545-4481
MO	Marsland Assoc St Louis	991-1399
NY	Advanced Components Corp N Syracuse	699-2671
OH	Electro Enterprises Dayton	426-6071
LINEAR SWITCH CORP BOX 52		
	WOODSTOCK CT 06281	
	TXW 710-434-7412	203-974-1000
	EMP 200 ENG 4 \$5,000-\$10,000K	
	ADV PG 247	

LING ELECTRONICS INC 4890		
	E LA PALMA AVE ANAHEIM	
	CA 92806 TWX 910-591-1179	714-779-1900
	T HARPER EMP 125 ENG 10 OVER \$10,000K	
AL	Scientific Devices SE Huntsville	205-536-1969
CA	Benedict Mktg Diamond Bar	714-861-9940
CA	CTE San Martin	408-683-2004
FL	Scientific Devices SE Orlando	305-841-8180
GA	Scientific Devices SE Marietta	404-427-8660
IL	Berndt Assoc Chicago	312-283-0713
IN	Berndt Assoc Carmel	317-884-0114
KS	Ramsey Assoc Overland Pk	913-649-6996
MD	W A Brown Equip Co Lanham	301-577-6105
MI	Schober & Assoc Ocean Lake	313-363-1888
MN	Berndt Assoc Mpls	612-546-2021
MO	Ramsey Assoc Maryland Hts	314-878-5042
NJ	Iru Rudnick Inc Teaneck	201-836-7392
NC	Scientific Devices SE Winston Salem	919-785-5776
OH	Boco Inc Dayton	513-224-0220
TX	Carey, McMahon & Zerbe Houston	713-771-1500
WI	Berndt Assoc 9431 W Beloit Milwaukee	414-545-8400

LINKWARE CORP 77 RUMFORD AVE	
WALTHAM MA 02154	617-894-9330
P GEORGE EMP 41 ENG 23 \$1,000-\$2,500K	

LINROSE ELECTRONICS INC		
	29 CAIN DR PLAINVIEW	
	NY 11803	516-293-2520
	W LANDAU EMP 4	

LINSEIS INC BOX 666 PRINCETON		
	JUNCTION NJ 08550 TWX 843360	800-RECORDER
	EMP 15 ENG 4	
AZ	Gaines & Co Birmingham	205-822-3010
AL	J Smith & Assoc Phoenix	602-267-0981
CA	Linsels Corp Marina Del Rey	213-306-3112
CA	Elotek Systems Laguna Hills	714-830-4856
CO	Connors Co Broomfield	303-466-9628
IL	Nomad Northfield	312-446-2725
MO	Vertec Assoc Manchester	314-394-6242
NY	Syntronics Inc Liverpool	315-451-0968
NC	P J Nahser Co Burlington	919-226-8053
OH	Hocker Assoc Dayton	513-253-3642
OK	Applied Simulator Tech Broken Arrow	918-258-6333
TX	Miles Tek Inc Argyle	817-455-7444
UT	Highland Technical Mktg Highland	801-756-2634

LISP MACHINE INC 6033 W		
	CENTURY BLVD LOS ANGELES	
	CA 90045 TWX 66-4608	213-642-1116
	K JOHNSON EMP 250 ENG 75	
CA	LMI Santa Clara	408-496-1151
CA	LMI San Diego	619-587-1958
CO	LMI Denver	303-779-1919
FL	LMI Port St Lucie	305-335-0100
IL	LMI Chicago	312-303-0160
MA	LMI Cambridge	617-876-6819
MN	LMI Mpls	612-854-3565
MO	LMI St Louis	314-993-3406
NY	LMI New York	201-568-3790
TX	LMI Austin	512-346-9760
VA	LMI Vienna	703-790-5556
WA	LMI Seattle	206-271-1248

LISTA INTERNATIONAL CORP		
	106 LOWLAND ST HOLLISTON	
	MA 01746 TWX 710-346-6704	617-429-1350
	E DAVIS	

LITTELFUSE INC 800 E NORTHWEST		
	HWY DES PLAINES IL 60016	
	TXW 910-233-4977	312-824-1188
	M BAGEL EMP 2000 ENG 50	
AZ	Clemick & Assoc Tucson	602-749-4003
CA	W J Purdy Co Burlingame	415-347-7701
CA	Berman-Gravley Co Costa Mesa	714-549-2122
CO	W J Purdy Co Denver	303-753-6800
FL	Hutto/Hawkins/Peregoy Maitland	305-831-2474
GA	Hollingsworth & Still Norcross	404-447-1700
IL	Chas Dombrow Co Mt Prospect	312-253-3326
IN	Leslie M DeVoe Co Indpls	317-842-3245

KS	Thos L Dowell Overland Pk	913-648-7373
LA	Erickson Sales Chalmette	504-271-1976
MD	Mid-Atlantic Sales Silver Spring	301-593-7749
MA	C Segel Co Newtonville	617-969-6900
MI	R C Merchant & Co Farmington Hills	313-476-4600
MN	M Foster Tech Sales Edina	612-941-9790
MO	Thos L Dowell St Louis	314-849-4234
NJ	Baum & Epstein Englewood	201-569-7600
NM	W J Purdy Co Albuquerque	505-266-7959
NY	R W Mitscher Co Buffalo	716-633-7970
OH	Bear Mktg Richfield	216-659-3131
OR	Jos V Belusko Co Portland	503-222-4279
PA	Bresson Assoc Narberth	215-664-6460
TX	Ecom Mktg Dallas	214-241-2166
FR	A C Simmonds & Sons Ltd Pickering ON	416-839-8041

LITTON ELECTRON DEVICES DIV		
	960 INDUSTRIAL RD SAN CARLOS	
	CA 94070 TWX 910-376-4900	415-591-8411
	E TAYLOR EMP 1000 ENG 90 OVER \$10,000K	
AZ	Litton Electron Devices Tempe	602-968-4471
CA	Litton Electron Devices Westlake Vlg	213-889-4903
DC	Litton Electron Devices Washington	703-920-4100
GA	Litton Electron Devices Warner Robins	912-923-3397
MA	Litton Electron Devices Waltham	617-692-6220
NJ	Litton Electron Devices Ocean	201-531-0310
OH	Litton Electron Devices Dayton	513-258-1243
PA	Litton Electron Devices Williamsport	717-326-3561
TX	Litton Electron Devices Dallas	214-881-0822

LITTON INDUSTRIES ADVANCED		
	CIRCUITRY DIV 4811 W KEARNEY	
	SPRINGFIELD MO 65803	
	TXW 910-775-4705	417-862-0751
	B WHITWORTH EMP 700 ENG 25 OVER \$10,000K	
CA	Litton Industries Los Gatos	408-370-2471
CA	Cal-Rep Inc Agoura	818-991-1940
FL	Jim Graham & Assoc Palm Beach Gdns	305-622-4049
GA	Litton Industries Atlanta	404-843-9916
IL	Dolin Sales Co Northbrook	312-498-6770
IN	DeVoe Co Indpls	317-842-3245
KS	Midtec Assoc DeSoto	913-441-6565
MI	Favco Birmingham	313-644-0173
MN	Giefer Sales Co Mpls	612-884-2395
NH	Litton Industries Milford	603-673-5717
NM	Litton Industries Albuquerque	505-898-1130
NY	Gen-Tech Elect Liverpool	315-451-3480
OH	Gilbert & Assoc Cincinnati	513-574-1932
OR	Crown Electronics Portland	503-620-8320
PA	Dalbrough Corp Horsham	215-441-8380
TX	Litton Industries Keller	817-379-6930
VA	Frazier Sales Midlothian	804-744-4101
WI	Dolin Sales Milwaukee	414-882-1111
FR	Longman Sales Mississauga ON	416-677-8100

LITTON INDUSTRIES GUIDANCE & CONTROL'S SYS DIV 5500		
	CANOGA AVE MS 28 WOODLAND	
	HILLS CA 91365	
	TXW 910-494-2091	818-715-4040
	S TENENBERG EMP 5300 ENG 1400 OVER \$10,000K	
CA	Litton Guid & Cont Sys San Bernardino	714-381-7402
DC	Litton Guid & Cont Sys Washington	202-554-2570
MA	Litton Guid & Cont Sys Marblehead	617-639-0408
OH	Litton Guid & Cont Sys Dayton	513-223-3285
TX	Litton Guid & Cont Sys Arlington	817-261-4323
UT	Litton Guid & Cont Sys SLC	801-539-1200

LITTON SYSTEMS INC LASER SYS DIV		
	BOX 7300 ORLANDO FL 32854	
	TXW 810-850-0195	305-295-4010
	J GRANT EMP 450 ENG 75	

LITTON SYSTEMS INC POTENTIOMETER		
	DIV 750 S FULTON AVE	
	MT VERNON NY 10550	
	TXW 710-562-0129	914-664-7733
	E CUBBIN EMP 300 ENG 13	
AZ	Litton Potent Div Phoenix	602-242-0910
CA	W H Industries Granada Hills	818-363-3910
CO	Midwest Meridian Aurora	303-341-7550
FL	JCJ Assoc St Petersburg	813-384-1211
IL	Midwest Meridian Elk Grove	312-640-9540
MA	Deltech Sales Waltham	617-894-4550
MN	Midwest Meridian Prior Lake	612-447-8222
MO	Midwest Meridian St Louis	314-878-4441
NY	Trionic Assoc Great Neck	516-466-2300
NY	R F Lamb Co Rochester	716-323-1250
OH	Rixan Assoc Dayton	513-222-0011
PA	Q & C Havertown	215-449-7500
TX	O M Assoc Richardson	214-690-6746



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DISTRIBUTORS

MA	Vector Sales Allston	617-787-2790
NY	Genesee Radio Buffalo	716-873-9661
PA	QDI East Havertown	215-449-2500
FR	Armco Elect Ottawa ON	613-737-0442

L & L SPECIAL FURNACE CO

136 KENT RD ASTON PA 19014	215-459-9216
IL RUBERCHECK EMP 20 ENG 3 \$500-\$1,000K	

LNP CORP 412 KING ST MALVERN

PA 19355 TWX 510-668-6728	215-644-5200
D STAGNARO OVER \$10,000K	
CA R Atkins San Pedro	714-261-8400
CA R Jones El Tora	714-261-8400
CT W Shaker Brooklyn	203-249-4292
IL C Cooke Crystal Lake	312-858-0644
KY J Siegrist Archorage	513-272-2660
MI K Snooks Pontiac	313-569-1650
MN B Andresen Mnpls	612-933-5155
NY K Houldsworth Clyde	716-266-4578
NC C Hodgkin Charlotte	704-332-5394
TX D Edens Plano	214-964-7097

LNR COMMUNICATIONS INC

180 MARCUS BLVD HAUPPAUGE	
NY 11787 TWX 510-227-9871	516-273-7111
F KELLY EMP 250 ENG 55 OVER \$10,000K	
OH A H Clark Dayton	513-277-5176

LOCKHART INDUSTRIES INC

15555 TEXACO AVE PARAMOUNT	
CA 90723 TWX 910-346-6418	213-774-2981
P KINNEY EMP 200 ENG 15 \$5,000-\$10,000K	

LOCKHEED ELECTRONICS CO INC

1501 US HWY 22 CS1 PLAINFIELD	
NJ 07061 TWX 710-997-9541	201-757-1600
EMP 2200 ENG 700	

LOCKHEED-GEORGIA CO DEPT

67-12 ZONE 22 MARIETTA	
GA 30063 TWX 404-290-4250	404-424-4914
R SANDT EMP 300 ENG 175 \$2,500-\$5,000K	

LOCUS INC BOX 740 STATE COLLEGE

PA 16801	814-466-6275
J HESS EMP 200 ENG 170 OVER \$10,000K	

LOGICAL DESIGN GROUP INC

541 PYLON DR RALEIGH	
NC 27606	919-834-8827
L THACKER EMP 6 ENG 4	

LOGICAL DEVICES INC 1321

NW 65 PL FT LAUDERDALE	
FL 33309 TWX 383142	305-974-0975
D MOTT EMP 50 ENG 10 \$5,000-\$10,000K	
FL EMS Melbourne	305-724-1027
GA Futron Inc Alpharetta	404-998-7032
IL Premier Electronics Schaumburg	312-882-7664
IN Loren Green Assoc Indpls	317-293-9827
MA Anderson Sales Co Braintree	617-848-9194
MI Qualitron Detroit	313-534-1511
MN Loren Green Assoc Mnpls	612-571-6666
NJ Design Electronics Paramus	201-845-6224
NM Mayco Inc Albuquerque	505-299-4002
NY Apex Assoc Rochester	716-254-6050
NC Zim-Tek Fayetteville	919-488-4101
TX Bouco Sales Dallas	214-247-6708
FR Soln Elec Sales Vancouver	604-438-0679

DISTRIBUTORS

AZ Jensen Phoenix	602-968-6241
CA Advanced Computer Prods	
Santa Ana	714-558-8822
CA Dokay Computers Santa Clara	408-988-0697
CA Jade Computer Prods Hawthorne	213-973-7707
CA Concord Computers Anaheim	714-632-6790
FL Future Elec Clearwater	813-441-4771
IL Ames Supply Downers Grove	312-964-2440
MD Products Intl Silver Spring	301-587-7824
MA AST Servo Sys N Billerica	617-667-8541
MA Solid State Sales Cambridge	617-547-7053
MA Hayes Inst Svc Billerica	617-663-4800
NJ Chips Technology Bloomfield	201-429-0855
NC Dramen Elect Raleigh	919-828-2371
NC Slayton Elect Charlotte	704-375-6600
TX Ewing Elect Richardson	214-231-6725

LOGIC DEVICES INC 628 E

EVELYN AVE SUNNYSVALE CA 94086	
TX 752387	408-720-8630
C YOUNGMAN EMP 28 ENG 10	

AL Electramark Huntsville	205-883-9948
CA GNH Mt View	415-961-6740
CA Varigon Los Angeles	213-322-1120
CO Parker Webster Denver	303-841-4888
CT TSI Danbury	203-269-8853
DE DGR Towson	301-583-1360
FL Beaton Electronics Melbourne	305-724-8010
GA Electramark Norcross	404-446-7915
IL Sieger & Assoc Chicago	312-310-8844
IN Giesting & Assoc Carmel	317-844-5222
MD DGR Lutherville	301-583-1360
MA Technology Sales Waltham	617-647-5700
MI CB Jensen & Assoc Troy	313-643-0506
NM Varigon Albuquerque	505-883-4080
NY Trionic Great Neck	516-466-2300
NY Labtronics Syracuse	315-455-7314
OH Giesting & Assoc Cincinnati	513-385-1105
OK Beaton Electronics Tulsa	214-437-1505
OR Vantage Tigard	503-620-3280
PA BGR Marlton	609-983-1020
TX Beaton Dallas	214-437-1505
UT Parker Webster SLC	801-266-9939
WA Vantage Bellevue	206-455-3460
WV Giesting Pittsburgh	412-963-0727
FR Tracan Ontario	415-625-7752
FR Technology Sales St Germain PR	809-892-4745

DISTRIBUTORS

CA Diplomat Sunnyvale	408-734-1900
CA Diplomat Los Angeles	213-700-8700
CA Diplomat Orange County	714-549-8401
CO Diplomat Denver	303-422-9228
CT Diplomat Danbury	203-797-9674
FL Diplomat Clearwater	813-443-4514
GA Diplomat Norcross	404-449-4133
IL Diplomat Chicago	312-595-1000
MD Diplomat Columbia	301-995-1226
MA Diplomat Woburn	617-935-6611
MN Diplomat Plymouth	612-559-2500
NJ Diplomat Cherry Hill	751-4040
NY Diplomat Melville	516-454-6400
TX Diplomat Dallas	713-975-8447
UT Diplomat Salt Lake City	801-486-4134

LOGIC DYNAMICS INC 16918

S GRAMERCY PL GARDENA	
CA 90247 TWX 910-346-6928	213-770-8151
P ANGELLOTTI EMP 25 ENG 2	
CA Nova-Tronix Santa Clara	408-727-9530
GA Mountain Electro Corp Norcross	404-448-5594
IL Grubb & Co Bloomingdale	312-980-6500
MN Smiley-Scott Assoc Bloomington	612-888-5551
NH OEM Marketing Salem	603-893-0009
NY Cambridge Allen & Assoc Berkeley	212-682-5844
NY Noth Honsinger Assoc Pittsford	716-586-9002
PA Delta Technical Sales Horsham	215-443-5503
TX E-Tron Colleyville	817-498-9824
WA Frank Jackson & Assoc Redmond	503-292-2638

LOGIMETRICS INC 121-03 DUPONT ST

PLAINVIEW NY 11803	
TX 510-221-1833	516-349-1700
EBLUM EMP 55 ENG 14 \$2,500-\$5,000K	
CA L & M Engrg Inglewood	213-674-6850
CO Scientific Dev West Boulder	303-449-9466
FL Saber Assoc Melbourne	305-724-0920
IL Feller Assoc Northfield	312-446-8065
MA Microwave Mktg Spec Burlington	617-272-7530
NJ E & F Technical Sales W Orange	201-731-7203
NM IMEC Albuquerque	505-883-9010
NY Robtrn Skaneateles	315-685-5731
NY E & F Technical Sales Huntington Station	516-549-1818
PA WM Assoc Ambler	215-643-4119
TX Scientific Devices SW Richardson	214-231-8106

LOGITECH INC 805 VETERAN'S BLVD

REDWOOD CITY CA 94063	415-365-9852
M SULLIVAN EMP 65 ENG 15	

LOGITEK INC 101 CHRISTOPHER ST

RONKONKOMA NY 11779	
TX 510-224-6253	516-467-4200
D FISCHER EMP 60 ENG 5 \$2,500-\$5,000K	
AL Remco Huntsville	205-533-3763
AZ Faser Technical Sales Scottsdale	602-948-4404
CA Craig Assoc Woodland Hills	818-887-2444
FL HAI Electronics Coral Springs	305-752-7520
GA Remco Atlanta	404-447-6937
KS D & O Engrg Co Wichita	316-686-2808
MD Youth Assoc Silver Spring	301-598-5740
MA Dynamic Sales of NE Burlington	617-272-5676
NC Remco Raleigh	919-847-5079
OH Ashby Assoc Dayton	513-252-5627
PA Dynamic Electronic Sales Churchville	215-322-2611
TX D & O Engrg Co Dallas	214-241-3099
WA Rep-West Seattle	206-283-8351

LOGUS MFG CORP 22 CONNOR LA

DEER PARK NY 11729	
TX 510-227-6086	516-242-5970
J RASMUSSEN EMP 75 ENG 10 \$2,500-\$5,000K	
CA R T Assoc Sherman Oaks	818-788-7588
FL Cole-Tek Assoc Pompano Beach	305-781-8110
TX Export Ecltn Sales Garland	214-681-1376

LOMAC DIV REEDHOLM INSTRUMENTS CO

47810 WESTINGHOUSE DR FREMONT	
CA 94539 TWX 910-381-7033	415-490-5666
C BLACKMON EMP 30 ENG 7 \$1,000-\$2,500K	

LORAIN PRODUCTS CORP 1122 F ST

LORAIN OH 44052	216-288-1122
C BERG EMP 1200 ENG 100 OVER \$10,000K	

LORAL DATA SYSTEMS/CONIC

9020 BALBOA AVE SAN DIEGO	
CA 92123 TWX 910-335-1183	619-279-0411
W KIRK EMP 350 ENG 60 OVER \$10,000K	
AZ Saddleback Sales Scottsdale	602-991-9712
CA Tech Marketing Assoc Mt View	408-736-3687
CA Saddleback Sales Orange	714-538-0354
CT Nemarco Assoc Norwalk	203-852-9117
MD Stemier Assoc Baltimore	301-944-8262
MA High Tech Sales Cohituate	617-653-8838
MO Dy-Tronix Inc Bridgeton	314-291-4777
NM Premco Inc Albuquerque	505-265-1115
TX W A Cain & Co Dallas	214-233-6809
WA Rightley Co Bellevue	206-643-7766

LORAL TERRACON 9020 BALBOA AVE

SAN DIEGO CA 92123	
TX 910-335-1202	619-278-4100
B SHERMAN EMP 300 ENG 40	

LORANGER INTL CORP 817

FOURTH AVE WARREN PA 16365	
TX 914542	814-723-2250
J ALBAUGH EMP 150 ENG 15 \$5,000-\$10,000K	
AZ Sahr Box 92 Wickenburg	602-684-7801
CA Loranger Intl Corp Santa Clara	408-727-4234
FR Mario Franceschini Inc Puerto Rico	809-723-4511

LORCH ELECTRONICS CORP

105 CEDAR LANE ENGLEWOOD	
NJ 07631 TWX 710-991-9718	201-569-8282
J LORCH	

LORD CORP AEROSPACE PRODUCTS DIV

1635 W 12TH ST ERIE PA 16514	
TX 510 696-6672	814-456-8511
E CONWAY EMP 1700 ENG 200	
CA Lord Corp Sherman Oaks	213-788-3321
FL Thomas Engrg Sales Winter Springs	305-699-0070
GA Thomas Engrg Sales Lilburn	404-925-1276
KS Lord Corp Derby	316-788-5905
NJ Lord Corp Paramus NJ	201-261-0800
NY R P Luce & Co New Hyde Pk	516-437-4515
TX Lord Corp Euless	817-540-0215
VA R P Luce & Co Great Falls	703-759-9135
WA Duganair Bellevue	206-454-3074

LORTEC POWER SYSTEMS INC

145 KEEP CT ELYRIA OH 44035	
TX 284868	216-327-5050
D LAMICAND EMP 55 ENG 4 \$5,000-\$10,000K	
AL E J Ruth Assoc Birmingham	205-979-0880
CA O'Halloran Assoc Palo Alto	415-326-1493
CA O'Halloran Assoc No Hollywood	714-750-7098
CO Peterson Co Denver	303-388-6322
CT Iron Horse Elec Equip Guilford	203-453-1462
IL W H Garrels & Assoc Downers Grove	312-932-8184
IN O Kittle Co Fort Wayne	219-745-9139
MN Ainslie Co Edina	612-920-2996
MO TWSCO Kansas City	816-363-2585
NE Katrex Inc Omaha	402-334-0250
NM Young Sales Co Albuquerque	505-293-8032
NY Pfriender Energy Sys Jericho	516-938-4918
NY Wm S Stamp Co Syracuse	315-463-4390
OH Arthur N Ulrich Co Pataskala	800-282-3292
TX Tubbesing Sales Corp Richardson	214-234-3855
UT Vierra Electro Power SLC	801-268-0338
WA Specified Prods Group Redmond	206-881-8841
FR Cipp St Thomas ON	519-631-9133
FR Puerto Rico & Caribbean Isla Verde PR	809-727-5552

LOUIS ALLIS DIV MAGNETEK INC

427 E STEWART BOX 2020	
MILWAUKEE WI 53201	
TX 910-262-3115	414-481-6000
CA Louis Allis Anaheim	632-6722
CA Louis Allis Fremont	796-199
CO Louis Allis Englewood	789-4452
CT Louis Allis Waterbury	573-8118
FL Louis Allis St Petersburg	541-7566
GA Louis Allis Norcross	448-5151
IL Louis Allis Des Plaines	298-2222
IN Louis Allis Indpls	257-4201
IA Louis Allis Davenport	326-1627
KS Louis Allis Leawood	341-6111
KY Louis Allis Louisville	897-0291
LA Louis Allis Baton Rouge	927-4114
MA Louis Allis Framingham	366-0003
MI Louis Allis Westborough	366-0003
MN Louis Allis Mpls	544-0351
MO Louis Allis St Louis	968-0900
NJ Louis Allis Union	964-5921
NY Louis Allis Buffalo	632-2366
NC Louis Allis Charlotte	525-8881
OH Louis Allis Cleveland	464-5521
OK Louis Allis Tulsa	743-621
PA Louis Allis Broomall	543-580
TX Louis Allis Houston	623-6201
VA Louis Allis Richmond	288-834
WA Louis Allis Seattle	878-1491
WV Louis Allis Charleston	776-4200
WI Louis Allis Milwaukee	483-1501

LOVE CONTROLS CORP 1475

S WHEELING RD WHEELING	
IL 60090 TWX 297115	312-541-3232
H KOENEN EMP 120 ENG 7 \$5,000-\$10,000K	
AZ Lietz Equip Co of AZ Tempe	602-968-4991
AR Industrial Controls Assoc El Dorado	501-862-2051
CA M H Assoc Los Angeles	213-652-2168
CA Automated Process Brisbane	415-467-6162
CO Hurley Indus Controls Denver	303-980-9300
FL A A Electric Lakeland	813-665-6941
GA A A Electric Norcross	404-449-8677
HI FLW-Hawaii Kaihua	808-945-1031
IL Thermo/Cense Inc Mundelein	312-949-8077
IN Engineered Sales Mishawaka	219-255-511
IA Jas H Laas Co Bettendorf	319-359-4487
LA Industrial Controls Assoc Baton Rouge	800-643-1100
MD W H Cooke & Co Finksburg	301-833-8202
MA RJC Assoc Cambridge	617-492-5858
MI Hal C Heym Assoc Rockford	616-874-7447
MN Tentech Shoreview	612-481-0274
MO Edw W Mooney Co St Louis	314-878-9911
NJ Prime Ind Components Paramus	201-262-9091
NM Lietz Equip Co Albuquerque	505-293-0818
NY Brander Sales Assoc Webster	716-671-8561
NC Gen Elctns of Charlotte Charlotte	704-392-3581
OH Williams Assoc Cincinnati	513-232-3351
OK Industrial Controls Assoc Edmond	800-643-1100
PA F J Gamble Co Riverside	609-461-4061
TN Industrial Controls Assoc Memphis	800-643-1100
TX Industrial Controls Assoc Houston	800-643-1100
UT Technical Devices Co SLC	801-972-5931
WA Al Smith Co Bellevue	206-746-6777
FR Mod-Tronic Instr Ltd Brampton ON	416-457-6322
FR Pyrometer Assoc Santurce PR	809-722-219

L & R MFG CO 577 ELM ST KEARNY NJ 07032.....	201-991-5330
B BERNARDO EMP 175 ENG 8	
CA L & R Mfg Co Anaheim.....	714-774-4600
GA L & R Mfg Co Atlanta.....	404-491-3861
LSI AVIONIC SYS CORP SUB	
LEAR SIEGLER INC 7-11	
VREELAND RD FLORHAM PARK	
NJ 07932 TWX 710-986-8504.....	201-822-1300
W SHERWOOD EMP 1000	
CA LSI Avionic Sys LA.....	213-215-9217
MO LSI Avionic Sys Bridgeton.....	314-731-3004
LSI COMPUTER SYSTEMS 1235	
WALT WHITMAN RD MELVILLE	
NY 11747 TWX 510-226-7833.....	516-271-0400
M ESSENBERG EMP 30 ENG 11 \$2,500-\$5,000K	
AL Rakes Eng & Mktg Huntsville.....	205-533-3763
CA Fischer Assoc Santa Clara.....	408-733-7350
CA Calif Elctn Mktg Inc Santa Ana.....	714-835-2702
CO Starsales Boulder.....	303-440-4193
DE Electrotech Sales Wilmington.....	302-764-2189
FL C Assoc Altamonte Springs.....	305-831-1717
GA Rakes Eng & Mktg Atlanta.....	404-477-6937
IL Fiat Engrg Assoc Elmhurst.....	312-547-6200
IN Mesa Inc McHenry.....	815-344-2820
IA C H Horn Assoc Cedar Rapids.....	319-393-8703
KY Components Inc Miamisburg.....	513-866-0661
MD Gans & Pugh Dayton.....	301-531-5216
MA Forsberg Sales Inc Brockton.....	617-522-6300
MI R C Nordstrom Co Southfield.....	313-559-7373
NM TLC Electronics Roseville.....	612-483-2226
NJ Comp-Tech Sales Hasbrouck Hts.....	201-288-7400
NM Nelco Electronix Albuquerque.....	505-293-1399
NY Comp-Tech Sales New Hyde Pk.....	516-373-2628
NY Barthel Enterprises Penfield.....	716-377-3018
NC Rakes Eng & Mktg Raleigh.....	919-847-5079
OH Components Inc Cleveland.....	216-243-9200
TX Electronic Mktg Assoc Houston.....	713-498-8120
VA Gans & Pugh Arlington.....	703-527-3262
WA Electronic Sources Inc Bellevue.....	206-451-3500
WI Stumm Sales Mequon.....	414-241-8414
DISTRIBUTORS	
CA Logan Elect San Carlos.....	415-594-0700
IL Bel-Co Elect Elmhurst.....	312-544-3303
LSI LOGIC CORP 1551 MCCARTHY BLVD MILPITAS CA 95035	
TX 172153.....	408-263-9494
EMP 1400	
LTX CORP LTX PARK AT UNIVERSITY AVE WESTWOOD MA 02090	
TX 710-335-1375.....	617-329-7550
G ROWETT EMP 1200 ENG 500 OVER \$10,000K	
AZ LTX Corp.....	602-957-0747
CA LTX Corp.....	408-945-3800
IL LTX Corp.....	312-882-1802
IN LTX Corp.....	317-455-2010
NC LTX Corp.....	617-329-7550
NC LTX Corp.....	919-997-0520
PA LTX Corp.....	215-886-3881
TX LTX Corp.....	214-680-0825
LUDLUM MEASUREMENTS INC	
501 OAK BOX 810 SWEETWATER	
TX 79556 TWX 466832.....	915-235-5494
D STEVENS EMP 100 ENG 2	
LUFT INSTRUMENTS INC HILLSIDE RD BOX 214 LINCOLN MA 01773	
TX 247 316.....	617-259-9215
L LUFT EMP 25 ENG 3 \$100-\$250K	
LUKE LINE FASTENERS 201	
LAUREL ST E BEVERLY NJ 08010.....	609-387-1166
EMP 5 ENG 1	
LUMINATOR DIV GULFON INDUSTRIES 1200 E PLANO PKWY PLANO	
TX 75074.....	214-424-6511
W CAMPBELL EMP 280 ENG 15	
CA R P Winks Long Beach.....	213-591-8049
DISTRIBUTORS	
GA Electro Air Atlanta.....	404-351-3545
NY Aerotech World Trade Purchase.....	914-428-3500
LUMINESCENT SYSTEMS INC ETNA RD LEBANON NH 03766	
TX 710-366-0607.....	603-448-3444
M HARTMAN EMP 120 ENG 6 \$5,000-\$10,000K	
LUMONICS INC 105 SCHNEIDER RD KANATA ON K2K 1Y3.....	613-592-1460
J DREILING EMP 350 ENG 25 OVER \$10,000K	
AZ Lumonics Corp Tempe.....	602-894-1460
CA Lumonics Corp Long Beach.....	213-595-4997
IL Lumonics Corp Des Plaines.....	312-299-4077
NY Lumonics Corp Mineola.....	516-746-2226
LUNDY ELECTRONICS & SYSTEMS INC	
ROBERT LANE GLEN HEAD	
NY 11545 TWX 650-264-6767.....	516-671-9000
R DAVIS EMP 718 ENG 40 OVER \$10,000K	
CA Lundy El Monte.....	213-571-6607
FL Lundy Pompano Beach.....	305-943-1500
GA Lundy Atlanta.....	404-451-5339
IL Lundy Schiller Park.....	312-749-9128
MA Lundy Hingham.....	617-749-9128
NY Lundy New York.....	212-943-2921
NC Lundy Charlotte.....	704-394-1161
PA Lundy Blue Bell.....	215-834-1780
TX Lundy Humble.....	713-446-6747
VA Lundy Springfield.....	703-321-7650
WA Lundy Redmond.....	206-882-0796

LUTHER & MAELZER INC 124 SOUTH RD BEDFORD MA 01730	
TXW 951195.....	617-275-4560
L HAGUE	
LUTRON ELECTRONICS CO INC	
SUTER RD BOX 205 COOPERSBURG	
PA 18036 TWX 510-851-3755.....	215-282-3800
J MCKIERNAN EMP 400 ENG 62	
LUXO LAMP CORP BOX 951 PORT CHESTER NY 10573	
TXW 137336.....	914-937-4433
R NEWTON EMP 120 ENG 3	
CA Maddox Sales 2833 Third St San Francisco	
CA Maddox Sales 7271 Paramount Bl Pico Rivera	
CO Cluff & Assoc Box 863 Arvada	
FL Krutek Assoc Box 5988 Lighthouse Pt	
GA R Cody 86 Allen Rd Atlanta	
MD Harry H Abrams Box 15014 Baltimore	
MA R Hart 2 Juniper Lynfield	
MI Lestock & Assoc 36027 Martin Livonia	
NJ Dunn & Bryan 50 Journal Sq Jersey City	
NY V Clair 16 Huntington Pl New Hartford	
OH J Taylor 51 Bounty Rd Aurora	
OR T Ferris Box 225 Beaverton	
SC Rohr Wanger & Roberts 238 W Oakland Rock Hill	
TX O Neill 76 Landfall La Conroe	
LUXTRON CORP 1060 TERRA BELLTA AVE MT VIEW CA 94043	
TXW 705218.....	415-962-8110
V BOWMAN EMP 30 ENG 4	
AL Lee Assoc Huntsville.....	205-533-5896
AZ Williams Assoc Scottsdale.....	602-947-4297
CA Eletk Systems Laguna Hills.....	714-830-4856
CA Williams Assoc Commerce City.....	303-289-5647
FL Vm2 Mktg Melbourne.....	305-676-3105
IL D B Patterson & Assoc Arlington	
MN Gibbo Scientific Inc Coon Rapids	
	612-786-2146
NH Kronk Scientific Inst Deerfield	
NM Williams Assoc Albuquerque.....	603-463-7866
NY SDM Reos Rochester.....	505-255-1638
OH Kirk Co Cleveland.....	716-226-1970
TX C & G Industrial Supply.....	713-486-0400
UT Williams Assoc SLC.....	801-485-6511
VA Scientific Assoc Fairfax.....	703-385-0600
WA Ned Lund Inc Bellingham.....	206-671-1336
LVC INDUSTRIES INC CO-ORD SWITCH DIV 23 HANSE AVE FREEPORT NY 11520.....	516-868-1900
A KIECUN EMP 25 ENG 3 \$500-\$1,000K	
CA Dyna Sales Co Los Angeles.....	213-268-1175
MA Polytek Assoc Ashland.....	617-881-4741
LYNN ELECTRONICS CORP 915 PENNSYLVANIA BLVD FEASTERTVILLE	
PA 19047 TWX 510-667-1988.....	215-355-8200
D GIACOMARRA EMP 150 ENG 2 \$5,000-\$10,000K	
LYNX INC BOX 67 LEOMINSTER MA 01453 TWX 949329.....	617-537-6090
W MORSE EMP 100	
LYON METAL PRODUCTS INC BOX 671 AURORA IL 60507 TWX 910	
232 3132.....	312-892-8941
R BODLUND EMP 800 ENG 25 OVER \$10,000K	
LYTRON INC DRAGON CT WOBURN MA 01801 TWX 95-1934.....	617-933-7300
E CARELL EMP 70 ENG 8 \$5,000-\$10,000K	
PA McCullough Heath Corp Co Box 593 Chester Springs	
	617-537-6090
LZR ELECTRONICS INC 8174 BEECHCRAFT AVE GAITHERSBURG	
MD 20879 TWX 301-670-0436.....	301-921-9440
R LOYA EMP 10 ENG 2 \$500-\$1,000K	
DISTRIBUTORS	
FL J Kennedy Melbourne.....	305-254-4196
IL Gaertner Assoc Arlington Hts.....	312-593-2332
KS Data Mark Guilford.....	203-453-0575
OH E Kirik Cleveland.....	216-581-7722
TX Advanced Tech Sales Dallas.....	214-340-1300
MABUCHI MOTOR AMERICA CORP 475 PARK AVE S NEW YORK NY 10016 TWX 23-4374.....	212-686-3622
I POLK ADV PG 288	
MABUCHI MOTOR CO LTD 430 MATSUHIDA MATSUDO CITY	
CHIBA-PREF JAPAN TWX 2993-218.....	0473-84-1111
K YUMOTO EMP 8500 ENG 150 OVER \$10,000K	
MACBAR MECHANISMS INC 11 WEST MALL PLAINVIEW NY 11803.....	516-694-5360
H MACHALANSKI EMP 6 ENG 1 \$100-\$250K	
CA Wm Roth & Assoc Box 507 Claremont	
MAC BEARING & ELECTRONICS 10 GREEN ST WOBURN MA 01801.....	617-933-2110
MACBETH PROCESS MSMTS DIV KOLLMORGEN CORP BOX 1297 NEWBURGH NY 12550 TWX 131406.....	914-565-4440
J BODDIN	
MACDERMID INC 245 FRIEGHT ST WATERBURY CT 06702	
TXW 4436011.....	203-575-5600
D MONTFORT EMP 600 ENG 45 OVER \$10,000K	

MACDONALD & CO 1736 STANDARD AVE GLENDALE CA 91201	
TXW 910-497-4782.....	818-241-1101
D MACDONALD EMP 17 ENG 1 \$1,000-\$2,500K	
CA Sidco Los Altos.....	415-949-0442
IN Blind & Assoc Indpls.....	317-251-1249
MD D K Jones Baltimore.....	301-752-0577
MI C A Geer Co Grand Rapids.....	616-534-9449
MN Ragon Elctns St Paul.....	612-488-0201
TX Melio Dallas.....	214-241-9196
MACHINE TECHNOLOGY INC	
25 EASTMANS RD PARSIPPANY NJ 07054 TWX 136349.....	201-386-0600
J DIMAURO EMP 150 ENG 40 OVER \$10,000K	
AZ Machine Technology Mesa.....	602-890-9404
CA Machine Technology San Jose.....	408-942-0800
CA Machine Technology Irvine.....	714-250-0930
CO Machine Technology Colo Springs.....	214-699-0523
FL Machine Technology W Melbourne.....	305-723-2722
TX Machine Technology Richardson.....	214-699-0523
M/A-COM ADVANCED SEMICONDUCTOR OPER 41 SECOND AVE BLDG 8 BURLINGTON MA 01803.....	617-272-3000
M/A-COM LASER DIODE INC 1130 SOMERSET ST NEW BRUNSWICK NJ 08901	
TXW 710-998-0597.....	201-249-7000
S KLUNK EMP 200 ENG 25	
AZ M/A-COM Comp Mktg Scottsdale.....	602-949-1642
CA M/A-COM Comp Mktg San Jose.....	408-298-2525
CA M/A-COM Comp Mktg Los Angeles.....	213-641-5311
CO M/A-COM Comp Mktg Englewood.....	303-790-0538
FL M/A-COM Comp Mktg Melbourne.....	813-796-4040
GA M/A-COM Comp Mktg Atlanta.....	404-956-0351
IL M/A-COM Comp Mktg Wheeling.....	312-459-8440
IN M/A-COM Comp Mktg Ft Wayne.....	219-432-8424
KS Midtec Assoc DeSoto.....	913-441-1566
MD M/A-COM Comp Mktg Rockville.....	301-468-6205
MO M/A-COM Comp Mktg Woburn.....	617-938-8600
MO Midtec Assoc Florissant.....	314-837-5200
NY M/A-COM Comp Mktg Syracuse.....	315-437-0515
NY ERA Commack.....	516-543-0510
NC M/A-COM Comp Mktg Raleigh.....	919-851-6220
PA M/A-COM Comp Mktg Philadelphia.....	215-938-0550
TX M/A-COM Comp Mktg Richardson.....	214-234-2463
WA M/A-COM Comp Mktg Issaquah.....	206-392-4990
M/A-COM MDM INC 3000 FULLBRIGHT AVE CHATSWORTH CA 91311	
TXW 910-494-5342.....	818-700-8400
R DAVIDSON EMP 38 ENG 4 OVER \$10,000K	
For Sales Offices See M/A-COM Laser Diode Inc Listings	
M/A-COM MICROWAVE CIRCUITS INC SOUTH AVE BURLINGTON MA 01803 TWX 710-332-6789.....	617-272-3000
P CHORNEY OVER \$10,000K	
For Sales Offices/Reps see M/A-COM Laser Diode Inc Listings	
M/A-COM MICROWAVE COMPONENTS INC SOUTH AVE BURLINGTON MA 01803 TWX 710-332-6789.....	617-272-3000
R BEEBER EMP 450 ENG 49 OVER \$10,000K	
For Sales Offices/Reps see M/A-COM Laser Diode Inc Listings	
M/A-COM MICROWAVE POWER DEVICES INC 330 OSER AVE HAUPPAUGE NY 11788	
TXW 510-227-6239.....	516-231-1400
D KRAUTHHEIMER EMP 280 ENG 25 OVER \$10,000K ADV PG 19	
AZ M/A-COM Comp Mktg Scottsdale.....	602-949-1642
CA M/A-COM Comp Mktg San Jose.....	408-298-2525
CA M/A-COM Comp Mktg LA.....	213-641-5311
FL M/A-COM Comp Mktg Melbourne.....	813-796-4040
GA M/A-COM Comp Mktg Atlanta.....	404-956-0351
IL M/A-COM Comp Mktg Wheeling.....	312-459-8440
IN M/A-COM Comp Mktg Ft Wayne.....	219-432-8424
KS Engineering Svcs Co Independence.....	816-254-3600
MD M/A-COM Comp Mktg Rockville.....	301-468-6205
MA M/A-COM Comp Mktg Woburn.....	617-938-8600
MO Midtec Assoc Florissant.....	314-837-5200
NY ERA Inc Commack.....	516-543-0510
NY M/A-COM Comp Mktg Syracuse.....	315-455-7981
NC M/A-COM Comp Mktg Raleigh.....	919-851-6220
PA M/A-COM Comp Mktg Hatboro.....	215-443-0330
TX M/A-COM Comp Mktg Richardson.....	214-234-2463
WA M/A-COM Comp Mktg Issaquah.....	206-392-4990
FR M/A Electronics Canada Ltd Mississauga ON.....	416-821-3548
FR M/A Electronics Canada Ltd St Laurent PQ.....	514-337-2992
FR Colmex Hattrem Holland.....	5206-41214
FR Walter Elctns Wangi Switz.....	549-0277
FR Albattross Tele Ab Sodertalje.....	0755-642-83
FR Daltron Ltd Greenfield Bedford.....	52-573112
FR Helmut Bonn GmbH Munchen.....	89-481078
FR Racom Elct Co Tel Aviv.....	3-453151
FR Mega-Sud Argeles sur Mer.....	68-812369
M/A-COM MILLIMETER PRODUCTS INC 41 SECOND AVE BLDG 8 BURLINGTON MA 01803	
TXW 710-332-6789.....	617-272-3000
D WHEELER \$2,500-\$5,000K	
For Sales Offices/Reps see M/A-COM Laser Diode Inc Listings	
M/A-COM OMNI SPECTRA INC 21 CONTINENTAL BLVD MERRIMACK NH 03054 TWX 710-366-0674.....	603-424-4111
EMP 550 ENG 50 OVER \$10,000K	
AZ M/A-COM Scottsdale.....	602-949-1642
CA M/A-COM San Jose.....	408-298-2525

CA	M/A-COM LA	213-641-5311
CA	M/A-COM Goleta	805-964-4844
CA	M/A-COM Anaheim	714-758-1921
CA	M/A-COM San Diego	619-483-5099
CO	M/A-COM Englewood	303-790-0538
FL	M/A-COM Indiatlantia	305-729-6400
GA	M/A-COM Marietta	404-956-0351
IL	M/A-COM Wheeling	312-459-8440
IN	M/A-COM Ft Wayne	219-432-8424
IA	Seltec Cedar Rapids	319-393-1114
MD	M/A-COM Gaithersburg	301-670-1700
MA	M/A-COM Woburn	617-938-8600
NY	ERA Inc Commack	516-543-0510
NY	M/A-COM Syracuse	315-437-0315
NC	M/A-COM Raleigh	919-851-6220
PA	M/A-COM Huntingdon Valley	215-938-0550
TX	M/A-COM Richardson	214-234-2463
WA	M/A-COM Issaquah	206-392-4990

DISTRIBUTORS

AZ	Hall-Mark Huntsville	205-837-8700
AZ	Waltronic Sales Tempe	602-967-1020
CA	C W Swift & Assoc Van Nuys	818-989-1133
CA	Waltronic Sales Santa Clara	408-727-1200
CA	Pyramid Elect Santa Clara	408-727-9810
CO	J Smith & Assoc Colo Springs	303-597-5343
FL	Microwave Components Stuart	305-286-4455
IL	Hall-Mark Wooddale	312-860-3800
IL	Compucon Dist Midwest Des	
	Plaines	312-827-9444
IN	Altex Carmel	317-848-1323
KS	Hall-Mark Lenexa	913-888-4747
MD	CLM Sales Randallstown	301-922-7717
MA	Compucon of NE Reading	617-944-6875
MA	L-K-H Sales Haverhill	617-373-1313
MN	Hall-Mark Bloomington	612-854-3223
MN	Hall-Mark Earth City	314-291-5350
NJ	Zebra Elect Pompton Plains	201-839-9040
NJ	Zebra Elect Maple Shade	609-779-8073
NM	J Smith & Assoc Albuquerque	505-265-3406
NY	Compucon Dist Commack	516-499-1211
NC	Hall-Mark Raleigh	919-872-0712
OK	Foxtronix Miamisburg	513-866-2112
OH	Hall-Mark Tulsa	918-665-3200
TX	Hall-Mark Elect Dallas	214-341-1147
WA	Pyramid Interface Elect Kent	206-872-5800
WI	Hall-Mark New Berlin	414-797-7844

M/A-COM OSW INC 2626 S HARDY DR
TEMPE AZ 85282
TWX 910-950-1296 602-966-1471
D DEGEAR EMP 482 ENG 30 OVER \$10,000K

M/A-COM SEMICONDUCTOR PRODS INC
41 SECOND AVE BLDG 8
BURLINGTON MA 01803
TWX 710-332-6789 617-272-3000
EMP 800 ENG 100 OVER \$10,000K

DISTRIBUTORS

NY Caco Communications Inc Brooklyn 718-646-6300
For Sales Offices See M/A-COM Laser Diode
Inc Listings

M/A-COM SOLID STATE CIRCUITS
6 WENTWORTH DR HUDSON
NH 03051 TWX 910-350-7566 603-880-1911
P GALE EMP 300 ENG 20
For Sales Offices See M/A-COM Laser Diode
Inc Listings

MAC PANEL CO 216 PINE ST
HIGH POINT NC 27262
TWX 510-926-1542 919-884-8111
T HAYWORTH EMP 85 ENG 4 \$2,500-\$5,000K

MACPOWER DIV MANU-TRONICS INC
9115 26 AVE KENOSHA WI 53140
TWX 910-274-2353 414-694-8866
K PAUPORE EMP 220 ENG 8 OVER \$10,000K

MACRODYNE INC 1004 PRINCETOWN
BOX 1079 SCHENECTADY NY 12301 518-356-3500
R MURPHY EMP 25 ENG 6 \$500-\$1,000K

MACROLINK INC 1500 N KELLOGG DR
ANAHEIM CA 92807
TWX 910-591-1671 714-777-8800
B GOODALE EMP 30 ENG 6 \$5,000-\$10,000K

FL Southeastern First Reg Melbourne 305-259-6373
MD Data Systems Mktg Lanham 301-577-3700
MA R D Stout Assoc Acton 617-263-1128
MN Prairie Assoc Elk River 612-441-6190
NJ Stearns Assoc Springfield 201-467-0844
TX SCI Sales Dallas 214-931-1487
WA Showalter Inst Bellevue 414-544-1141
WI Prairie Assoc Waukesha

MACROMATIC INC 4635 W LAWRENCE
AVE CHICAGO IL 60630 312-286-7977
S KEMP EMP 21 ENG 2 \$1,000-\$2,500K
AL AABCO Engrg Sales Birmingham 205-856-3300
CA Sierra Pacific Eng Tustin 714-731-3411

CA	Campbell & Co Burlingame	415-697-2965
CO	High Country Assoc Lakewood	303-980-8021
CT	A & B Assoc Woodbridge	203-387-8211
GA	Electro Service Inc Roswell	404-993-0389
IL	Tourtelot Co Itasca	312-250-9300
IA	Jerry L Shumway & Assoc	
	Des Moines	515-285-0704
MD	HR Sieber Co Silver Spring	301-589-9110
MN	Eltast Assoc Mnpls	612-475-2208
MO	Floyd Gilliam Assoc St Louis	314-961-5555
NY	F Walter Laver & Son New	
	Hartford	315-724-2304
NC	Vansco Sales Co Charlotte	704-364-9442
OH	C A Robinson Co Cleveland	216-473-6044
TX	Kopintz Co Houston	713-692-0022
WA	Calvert Controls Inc Medical	
	Lake	509-244-3601
WI	Jim Laganowski Assoc Buffalo	
	Grove	312-520-0130

DISTRIBUTORS

AZ	Minarik Electric Phoenix	602-233-3000
AZ	Electric Supply Phoenix	602-252-2343
CA	Electrical Power & Control	
	Redondo Bch	213-772-8890
CA	Minarik Elec Co LA	213-485-1291
IL	Newark Electronics Chicago	312-638-4411
IL	Allied Electronics Elgin	312-695-0911
IA	Ramco Inc W Des Moines	515-255-6933
MI	Kendall Electric Battle Creek	616-963-5585
NJ	Ray Specialties Fairlawn	201-797-3313
ND	Border States Electric Bismarck	701-258-6060
OH	Martin Electric Dayton	513-228-5141
TX	Allied Electronics Ft Worth	817-336-7414
WA	Am Fac Electrical Spc Aberdeen	206-533-2852
WA	Consolidated Elec Dist Longview	206-425-7370
WI	Industrial Electronics Milwaukee	414-276-1212

MADISON WIRE & CABLE CORP
125 GODDARD MEM DR BOX 3000
WORCESTER MA 01603
TWX 710-340-7502 617-752-7320
D RIGNANESE EMP 200 ENG 15 OVER \$10,000K

AZ	O'Donnell Assoc Phoenix	602-944-9542
CA	O'Donnell Assoc Torrance	213-539-9664
CA	Recht Assoc Los Altos	415-964-6321
CO	Todd & Fry Assoc Longmont	303-776-7331
FL	Brandel-Stephens & Co Deerfield	
	Bch	305-427-8558
IL	Control Sales Elk Grove Vlg	312-595-2110
MA	Gerber Sales Corp Waltham	617-890-3334
MI	Component Assoc Southfield	313-557-3232
MN	Mossing & Assoc Rochester	507-282-7053
MO	Enscor-Rep Inc Maryland Hts	314-423-3935
NY	Bastian Sales Agency Fairport	716-223-0237
OH	Augnat Assoc Akron	216-535-4396
OR	Earl & Brown Co Portland	503-245-2283
PA	PWC Manufacturing Spring House	215-643-2550
TX	Richmar Elctns Corp Plano	214-867-8224
FR	A C Simmonds & Sons Ltd	
	Pickering ON	416-839-8041

MAG-CON INC 1626 TERRACE DR
ST PAUL MN 55113 612-633-8820
M CRELLIN EMP 35 ENG 2 \$1,000-\$2,500K

MD	Magyar & Assoc Wheaton	301-871-8833
MA	Magyar & Assoc Needham Hts	617-444-9095
MN	Primary Sensors & Controls	
	Hibbing	218-262-3819
PA	Magyar & Assoc Philadelphia	215-635-5211
VT	Magyar & Assoc Bennington	802-442-5858

MAGNA DIV VERMONT AMERICAN CORP
1001 W PARK RD ELIZABETHTOWN
KY 42701 502-737-3311
R COX EMP 150 ENG 6 \$5,000-\$10,000K

MAGNAFLUX CORP 7328 W LAWRENCE
AVE CHICAGO IL 60656
TWX 25-4194 312-867-8000
G KOPEC

FR Williams & Wilson Ltd Montreal
PO 514 866-2851
FR Cae Morse Ltd Calgary AB 403 243-4251

MAGNETIC ELECTRIC CO
1910 TECHNY RD NORTHBROOK
IL 60062 TWX 910-221-0122 312-564-8800
A COOPER EMP 700 ENG 25
ADV PG 391

AL	Electronic Mktg Assoc Huntsville	205-837-7363
AZ	Foley Tallent & Lee Tempe	602-438-1564
CA	Kottmeier Assoc Campbell	408-371-8700
CA	Universal Components L A	213-641-4255
CO	Technology Mktg & Assoc Parker	303-841-3435
CT	Ray Perron & Co Farmington	203 673-4825
GA	Electronic Mktg Assoc Atlanta	404-448-1215
IN	Scott Electronics Indpls	317-897-9976
KS	Advanced Technical Sales	
	Overland PK	913-642-6675
LA	McKinney Sales Baton Rouge	504-275-4169
MD	Walker-Houck Assoc Lutherville	301-296-6021
MA	Ray Perron & Co Needham	617-449-6162

MI	Hilltronics Ferndale	313-398-5556
MN	Electronic Comp Sales Mnpls	612-933-2594
MO	Advanced Technical Sales	
	St Louis	314-878-2921
NH	Ray Perron & Co Dover	603-742-2321
NJ	Comtek Inc Mt Laurel	609-235-8505
NY	Franklin Sales Corp Pittsford	716-248-8251
NY	Schmitt Ind Mktg Corp West	
	Hempstead	516-486-3510
NC	Electronic Mktg Assoc Raleigh	919-847-8800
OH	Scott Electronics Cincinnati	513-791-2513
OH	Scott Electronics Cleveland	216-473-5050
PA	Scott Electronics Pittsburgh	412-963-6116
SC	Electronic Mktg Assoc Greenville	803-233-4637
TX	McKinney Sales Dallas	214-631-9450
UT	Technology Mktg & Assoc SLC	801-483-1005
VA	Walker-Houck Assoc Moneta	703-297-4496
WA	Quadra Sales Redmond	206-883-3550
WI	Rep 1 & Assoc Colgate	414-628-4016
FR	Longman Sales Mississauga ON	416-677-8100
FR	Klamco Elctns Rio Pedras PR	809-752-6169

DISTRIBUTORS

AL	Arrow Electronics Huntsville	205-837-6955
AL	MG Elect & Equip Co Birmingham	205-328-4525
AL	Newark Elect Birmingham	205-942-4044
AZ	Kierulff Elect Phoenix	602-243-4101
AZ	Newark Elect Tempe	602-968-7441
AR	Carlton Bates Co Little Rock	501-562-9100
CA	Allied Elect Garden Grove	714-554-0731
CA	Allied Elect Chatsworth	213-701-7500
CA	Bell Ind Sunnyvale	408-734-8570
CA	Fisher/Brownell Alhambra	213-289-0255
CA	Fisher/Brownell Santa Clara	408-988-6041
CA	Kierulff Elect LA	312-725-0325
CA	Kierulff Elect San Diego	619-278-2112
CA	Master Dist LA	312-452-1229
CA	Newark Elect Sacramento	916-971-9555
CA	Newark Elect San Diego	714-481-1251
CA	Plough Elec Supply San Francisco	415-431-6300
CA	Q C Components Chatsworth	818-700-2622
CA	Arrow Elect Hayward	415-487-4600
CA	Sacramento Elect Supply	
	Sacramento	916-441-4821

CA	Western Elec Supply Glendale	312-246-4861
CA	Kierulff Elect Tustin	714-731-5711
CA	Arrow Elect San Diego	714-565-4800
CA	Arrow Elect Sunnyvale	408-745-6600
CO	Fistel's Elect Supply Denver	303-629-1312
CO	Integrated Elec Denver	303-534-6121
CO	Newark Elect Denver	303-757-3351
CO	Jet Elect Supply Aurora	303-364-1000
CO	Arrow Electronics Aurora	303-696-1111
CO	Kierulff Elect Englewood	303-790-4444
CT	Newark Elect Bloomfield	203-243-1731
CT	R & S Elect East Hartford	203-528-9901
CT	Signal Elect West Hartford	203-244-8551
CT	L E Whelan Co Hartford	203-246-5699
CT	Arrow Elect Wallingford	203-265-7741
FL	Electronic Equip Co Miami	305-871-3500
FL	Newark Elect Ft Lauderdale	305-587-2372
FL	Arrow Elect Ft Lauderdale	305-776-7790
FL	Kierulff Elect St Petersburg	813-576-1966
GA	Ack Radio Supply Atlanta	404-351-6340
GA	Arrow Elect Norcross	404-449-8252
GA	Kierulff Elect Norcross	404-447-5252
IL	Arrow Elect Schaumburg	312-397-3440
IL	Bell Ind Elk Grove Vlg	312-640-1910
IL	Classic Comp Supply Northbrook	312-272-9650
IL	E D I Chicago	312-283-4800
IL	Allied Electronics Elgin	312-697-8200
IL	Kierulff Elect Itasca	312-250-0500
IL	Klaus Radio & Elec Peoria	309-691-4840
IL	Newark Elect Chicago	312-784-5100
IN	Graham Elect Ft Wayne	219-423-3422
IN	Graham Elect Supply Indpls	317-634-8202
IN	Hutch & Son Evansville	812-425-7201
IN	Arrow Elctns Indpls	317-243-9353
IA	Decco Inc Cedar Rapids	319-365-7551
IA	Iowa Radio Supply Cedar Rapids	319-393-4510
IA	Newark Elect Cedar Rapids	319-362-1171
IA	Arrow Electronics Cedar Rapids	319-395-7231
KS	Arrow Elec Overland Park	913-642-0591
KY	Newark Elect Louisville	502-423-0280
KY	Peerless Electric Equip	
	Louisville	502-637-7674

LA	MG Elect & Equip Harahan	504-733-0070
LA	Newark Elect Metairie	504-838-9771
LA	Ralph's Elect Lafayette	518-233-0105
LA	Wm B Allen Supply New Orleans	504-525-8222
LA	Menard Elect Baton Rouge	504-355-0323
ME	Nelson & Wright West Buxton	207-929-8236
MD	Arrow Electronics Bethesda	301-564-3000
MD	Newark Elect Beltsville	301-937-9540
MD	Pioneer WA Elect Gaithersburg	301-921-0660
MA	Kierulff Elect Billerica	617-667-8331
MA	Arrow Elect Woburn	617-933-8130
MA	Gerber Elect Norwood	617-769-6000
MA	Impact Elect Canton	617-821-1500
MA	R M Elect Worcester	617-756-8311
MI	Newark Elect Oak Park	313-967-0600
MI	Arrow Elect Ann Arbor	313-971-8220
MI	S-F Elect Grand Rapids	616-459-0216

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In New Jersey (201) 592-0351, 0358, 0364
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3161 S W 14th Ct., Pompano Beach, Florida 33069
(305) 973-4141
TWX 510-956-3118
Call Toll Free 800-327-4993 • In Florida 800-432-8899

MN	Control Design Mnpls	612-721-1628
MN	Arrow Elect Edina	612-830-1800
MN	Stark Electronics Mnpls	612-332-1325
MN	Kierulff Elect Edina	612-941-7500
MO	Four State Radio Supply Joplin	417-624-0368
MO	Newark Electr St Louis	314-521-5066
MO	Olive Electronics St Louis	314-426-4500
MO	Van Sickle Radio Elect St Louis	314-621-5000
MO	Arrow Elect St Louis	314-567-6888
NE	J B Dist Omaha	402-341-5525
NH	Arrow Elect Manchester	603-668-6968
NJ	General Radio Supply Camden	609-964-8560
NJ	Interstate Elect Hazlet	201-264-3900
NJ	Kierulff Elect Fairfield	201-882-0300
NJ	Newark Elect Springfield	201-379-3313
NJ	Newark Elect Pennsauken	609-663-9490
NJ	Relay Specialties Fair Lawn	201-797-3313
NJ	Route Elect Springfield	201-379-7710
NJ	State Elec Parts East Hanover	201-887-2550
NJ	Arrow Elect Marlton	609-596-8000
NJ	Arrow Elect Fairfield	201-575-5300
NM	Arrow Elect Albuquerque	505-243-4566
NY	Logiccomp Electr Mamaroneck	914-698-9332
NY	Maxline Electr Rochester	716-546-5373
NY	Newark Electr Rochester	716-473-6600
NY	Peerless Radio Lynbrook	516-593-2121
NY	Rochester Radio Supply Rochester	716-454-7800
NY	Simcona Electr Rochester	716-328-3230
NY	Summit Dist Buffalo	716-887-2800
NY	Jaco Elect Hauppauge	516-273-5500
NY	Arrow Elect Hauppauge	516-213-1000
NY	Arrow Elect Rochester	716-427-0300
NC	Kirkman Electr Winston-Salem	919-722-9131
NC	Control Design Sply Pineville	704-588-4410
NC	Newark Elect Greensboro	919-292-7240
NC	Arrow Elect Raleigh	919-876-3132
NC	Arrow Elect Winston Salem	919-725-8711
NC	Kierulff Elect Raleigh	919-872-8410
OH	Hughes-Peters Columbus	614-294-5351
OH	Hughes-Peters Cincinnati	513-351-2000
OH	Micro-Mil Inc Dayton	513-434-8231
OH	Newark Electr Cleveland	216-447-1942
OH	Newark Electr Cincinnati	513-771-9700
OH	REPCO Cleveland	216-248-8900
OH	Stotts-Friedman Co Dayton	513-298-5555
OH	EMCORP Columbus	614-228-6875
OH	Arrow Elect Centerville	513-435-5563
OH	Arrow Elect Solon	216-248-3990
OK	Arrow Electronics Tulsa	918-665-7700
OK	Radio Supply Okla City	405-232-6127
OK	Combined Tech Co Tulsa	918-665-3002
OR	Almac Elctns Beaverton	503-629-8090
OR	Newark Electr Portland	503-257-0741
OR	North Coast Electric Portland	503-228-5111
OR	Taylor Elect Supply Portland	503-233-5321
PA	Newark Elect McKees Rocks	412-331-2400
PA	Shap Elect Philadelphia	215-969-3300
PA	Advacom Ind Elect McKean	814-476-7774
PA	Arrow Elect Monroeville	412-856-7000
PA	Control Design Sply Malvern	215-296-0150
RI	Wm Dandreta & Co Providence	401-861-2800
RI	Major Elect Sply Pawtucket	401-725-7400
SC	Wholesale Radio Supply Charleston	803-722-2634
TN	Curle Electr Chattanooga	615-266-4728
TN	Industrial Electr Knoxville	615-573-7135
TN	Newark Electr Knoxville	615-584-0134
TN	Newark Electr Memphis	901-365-8060
TN	Shields Electronics Knoxville	615-588-2421
TN	Allied Elect Fort Worth	817-336-5401
TX	Altair Co Houston	713-462-3029
TX	Altair Co Richardson	214-231-5166
TX	Energy System Midland	915-694-9657
TX	Hargis Co Waco	817-754-5667
TX	Ideal Ind Elect Supply El Paso	915-779-6647
TX	F & M Electronic Sply Abilene	915-672-2839
TX	Control Design Sply Dallas	214-358-1441
TX	Newark Electr Houston	713-782-4800
TX	R & R Elect Lubbock	806-765-5737
TX	Weatherford Co Houston	713-688-7406
TX	Weatherford Co Dallas	214-263-2144
TX	Wholesale Elec Supply Austin	512-478-9568
TX	Fisher/Brownell Richardson	214-235-3177
TX	Arrow Elect Austin	512-835-4180
TX	Arrow Elect Dallas	214-386-7500
TX	Arrow Elect Stafford	713-491-4100
UT	Arrow Elect SLC	801-539-1135
UT	Kierulff Elect SLC	801-973-6913
UT	Newark Electr SLC	801-484-8611
VA	Arlington Elec Wholesales Arlington	703-524-6256
VA	Arrow Electronics Richmond	804-282-0413
WA	Almac/Strom Bellevue	206-643-9992
WA	Consolidated Elec Dist Seattle	206-762-4847
WA	H D Campbell Co Seattle	206-433-1900
WA	Industrial Elec Serv Co Aberdeen	206-533-2792
WA	Kierulff Elect Tukwila	206-575-4420
WA	Newark Electr Bellevue	206-641-9800
WA	Arrow Elect Bellevue	206-643-4800
WV	Newark Electr Charleston	304-345-6505
WI	Bell Industries Waukesha	414-547-8879
WI	Midwestern Elec Co Milwaukee	414-449-1500
WI	Kierulff Elect Waukesha	414-784-8160
WI	Nelson Elec Supply Racine	414-837-7661
WI	Arrow Elect Brookfield	414-792-0150
FR	ITT Components Concord ON	416-736-1048
FR	Future Elect Montreal PQ	514-694-7717
FR	Arrow/Cesco Montreal PQ	514-735-5111
FR	WES Ltd Winnipeg MB	204-632-1260
FR	Tecno Lite De PR Carolina PR	809-752-8252

CA	Mesa Engrg Sales 7525 Convoy Ct San Diego	714-278-8021
KS	Robinson Assoc 630 Dearborn Dr Mission	913-262-1374
MAGNETIC CIRCUIT ELEMENTS INC		
CA	1540 MOFFETT ST SALINAS CA 93905	408-757-8752
L CONKLIN EMP 24 ENG 3 \$500-\$1,000K		
OR	R T S Inc Wilsonville	503-227-1189
WA	R T S Inc Vashon	206-285-1363
MAGNETIC COMPONENT ENGINEERING INC		
INC	11379 PLAYA ST CULVER CITY CA 90230	213-398-4761
D CROPEY EMP 12 ENG 3 \$100-\$250K		
AZ	C T Carlberg & Assoc Tempe	602-277-2808
CA	Silicon Valley Sales San Jose	408-286-7510
MA	Irondequoit Industries Framingham	617-879-2466
MN	A J Warner Co Mnpls	612-823-8272
MO	Carins Sales Co Blue Springs	816-229-1404
NM	C T Carlberg & Assoc Albuq	505-888-3883
NY	Irondequoit Industries Rochester	716-544-6257
TX	Robt R Thomas Co Addison	214-233-8235
MAGNETIC INFORMATION SYSTEMS INC		
415 HOWE AVE BOX 806 SHELTON CT 06484		203-735-6477
V RUCCO EMP 9 ENG 3 \$500-\$1,000K		
MAGNETIC INSTRUMENTATION INC		
8350 E 48 ST INDIANAPOLIS IN 46226 TWX 27-2111		317-545-2102
G CUNNINGHAM EMP 30 ENG 6		
CA	Wasson & Assoc San Jose	408-354-3507
MAGNETIC LABORATORIES 1 CROWN DR		
APALACHIN NY 13732		607-754-5800
C FELICETTI EMP 300 ENG 15 OVER \$10,000K		
OH	Imtech Inc Akron	216-666-1185
OK	Southern States Mktg Tulsa	918-665-8338
MAGNETIC METALS CORP 21ST & HAYES CAMDEN NJ 08101		
TXW 710-891-7054		609 964-7842
W KISE EMP 500 ENG 27 OVER \$10,000K		
MAGNETICO INC 182 MORRIS AVE HOLTSVILLE NY 11742		
516-654-1166		
H EICHER EMP 45 ENG 3 \$500-\$1,000K		
MAGNETIC RADIATION LABS		
92 N LIVERY BLVD ELK GROVE VILLAGE IL 60007		
TXW 910-222-0225		312-437-5200
A BARONE EMP 34 ENG 2 \$1,000-\$2,500K		
CA	G F A Sales Santa Clara	408-727-4123
CA	High Voltage Sales Tarzana	818-881-9194
MA	Crawford Assoc Andover	617-470-2122
MI	Michigan Mktg & Sales Brighton	313-229-6218
MN	Stoss Assoc 5009 Excelsior Mnpls	612-925-2757
MAGNETIC SHIELD DIV PERFECTION		
MICA CO 748 N THOMAS DR BENSENVILLE IL 60106		
TXW 910-256-4815		312-766-7800
EMP 50 ENG 3 \$1,000-\$2,500K		
ADV PG 418		
CA	Cal-Ward Sales Co Woodland Hills	213-883-2202
CA	Alt Assoc Redwood City	415-367-1710
CO	Mtn View Marketing Aurora	303-699-1665
FL	Ludlum Assoc Miami	305-592-6523
MD	Bernard White & Co Baltimore	301-484-5400
MA	Vantage Assoc Waltham	617-899-4568
MI	Amtech Repts Farmington	313-474-8300
MN	Josco-Melius Mnpls	612-861-3343
NM	Intermtn Eng Co Albuquerque	505-883-9010
NY	Canavan-Scanlon Assoc E Syracuse	315-437-1271
OH	Bill Teplitz Co Cleveland	216-439-3265
PA	QRM Inc Havertown	215-449-3400
WA	Temco Northwest Kirkland	206-821-5434
FR	Otto Ahrens A/S Inderotken 7 DK2720 Copenhagen	
FR	Detakta 266 Alsterdorfer Str Hamburg	
FR	Rodelco NV Box 296 Rjlsjviq ZH	
FR	Kirkeby A/S Malerhaugveien 15 Oslo	
FR	AB Gosta Backstrom 16 Syslomsangatan Stockholm	
FR	Baerlocher AG Box 8021 Zurich	
FR	Electis Eng Co Ltd 131 Bialik St Ramat Gan	
FR	Amlex Elctns Box 285 Chatswood Austr	
MAGNETIC SYSTEMS 770 LINDEN AVE		
ROCHESTER NY 14625 TWX 978324		716-244-2940
G MCNEIL EMP 45 ENG 8		
MAGNETICS DIV SPANG CO BOX 391		
BUTLER PA 16003		
TXW 710-373-3821		412-282-8282
J HUTH EMP 550 ENG 50 OVER \$10,000K		
CA	Magnetics S El Monte	213-686-0920
CA	Magnetics San Jose	408-253-0591
CO	Magnetics Englewood	303-773-3510
CT	Magnetics West Hartford	203-232-1583
FL	Magnetics Lake Worth	305-967-5929
IL	Magnetics Frankfort	815-469-2882
IN	Magnetics Terre Haute	812-877-1917
MA	Magnetics Andover	617-475-1011
NJ	Magnetics Clark	201-654-8928
NY	Magnetics Fairport	716-223-0737
NY	Magnetics Port Jefferson	516-928-1370
NC	Magnetics Greensboro	919-288-3669
OH	Magnetics Findlay	419-424-0592
OK	Magnetics Tulsa	918-663-9061
OR	Magnetics Hillsboro	503-648-6110
PA	Magnetics Shipperville	814-797-1133
TX	Magnetics Garland	214-475-8066
WI	Magnetics Elm Grove	414-764-7096
FR	B Freudenberg, Inc New York NY	212-757-9130

MAGNETIC TECHNOLOGY DIV		
VERNIIRON CORP 21001		
KITTRIDGE ST CANOGA PARK		
CA 91303 TWX 910-494-1217		213-887-7700
D MIGHDOLL EMP 150 ENG 8 OVER \$10,000K		
AZ	Kachina Assoc Sunlakes	602-253-7086
CA	Halbar Assoc Glendale	213-246-8263
CA	Servo Data Los Altos	415-964-1325
CT	Gerald Rosen Co Stratford	203-375-5456
FL	Mackay Smith & Assoc Orlando	305-277-1513
IL	Howard Benjamin Assoc Northbrook	312-272-2900
MA	Gerald Rosen Co Framingham	617-879-5505
MN	Systems Mktg Corp Wayzata	612-476-4819
NY	Friedman-Smith Mt Vernon	914-664-4866
TX	Norcom Inc Dallas	214-386-4888
MAGNETOELASTIC DEVICES INC		
BOX 625 PITTSFIELD MA 01201		413-445-5608
IL Components for Automation		
& Mfg Northfield		
OH	A J Assoc Dover	216-343-2222
MAGNET SALES & MFG CO 11250		
PLAYA CT CULVER CITY CA 90230		213-391-7213
A NANJUI EMP 29 \$2,500-\$5,000K		
MAGNET WIRE INC 112-01		
NORTHERN BLVD CORONA		
NY 11368-1396		718-651-0900
MAGNO-CERAM CO 2614 S CLINTON		
AVE SOUTH PLAINFIELD NJ 07080		201 561-2000
E GELBARD EMP 20 ENG 3		
MAGNUM ELECTRIC 6385 DIXIE HWY		
ERIE MI 48133		
TXW 810-231-7160		313-848-2555
R PITCHFORD EMP 85 ENG 8		
AZ	Delta Elec Sales Tempe	602-252-4222
CA	Moulthrop Sales Pleasanton	415-463-0450
CA	West Electronic Sales Westminster	714-898-0120
CO	Frontier Reps Englewood	303-799-6063
CT	Kitchen & Kutchin Inc North Haven	203-239-0212
GA	Effective Mktg Atlanta	404-948-6023
IL	Control Sales Elk Grove Vlg	312-595-2110
IN	Marketing Engineers Indpls	317-872-5665
MD	Imagtron Sales Co Pikesville	301-521-2020
MA	Kitchen & Kutchin Burlington	617-229-2660
MI	ESI Beachwood	216-831-9555
MI	Willman Assoc Brooklyn Ctr	612-566-5010
MO	Thos L Dowell & Assoc St Louis	314-849-4234
NY	Astrophex Inc Babylon	516-422-2500
NY	Marchese Marsey & Barden Mendon	716-582-2240
OH	ESI Beachwood	216-831-9555
OR	Jos V Belusko Co Portland	503-222-4279
PA	Inacker Sales Huntingdon Valley	215-947-5660
TX	Barry Sales Richardson	214-234-0255
UT	Frontier Reps Ogden	801-546-4029
MAGNUM OPUS CUSTOM ELECTRONIC		
ENGRG 284 KENNEDY ST ISELIN		
NJ 08830		201-283-4925
EMP 7 ENG 2		
MAGNUSONIC DEVICES INC		
290 DUFFY AVE HICKSVILLE		
NY 11801 TWX 510-221-1850		516-938-4700
P WALSH EMP 300 ENG 15 \$5,000-\$10,000K		
MAG-TEK INC 20725 S ANNALEE		
CARSON CA 90746		
TXW 910-346-6379		213-631-8602
R BARKER EMP 50 ENG 4 \$5,000-\$10,000K		
FL	Brocker & Assoc 317 W Main Apopka	
IL	Cardpro Services 129 W 61 St Westmont	
PA	Express Card Systems 175 Strafford Wayne	
TX	Unidyne 231 Ohio Dr Plano	
MAGTROL CORP 70 GARDENVILLE		
PKWY W BUFFALO NY 14224		
TXW 710-260-1360		716-668-5555
G STARK EMP 80 ENG 6 \$2,500-\$5,000K		
CA	Davidson Assoc Santa Monica	213-829-1731
IL	Midwest Sales Engrg Co Fox Lake	312-587-9577
MA	Bordewick Engrg Sales Norwell	617-559-4915
NY	Good Components Buffalo	716-634-4400
NY	Travco/NLC Assoc Roslyn Hts	516-621-3223
OH	C A Robinson Co Cleveland	216-473-6044
PA	Freedman-Malta King of Prussia	215-337-9211
MAICO HEARING INSTRUMENTS CO		
7375 BUSH LAKE RD MINNEAPOLIS		
MN 55435 TWX 29-0548		612-835-4400
C OLSON		
MAIDA DEVELOPMENT CO 20		
S LIBBY ST HAMPTON VA 23663		
TXW 82-3443		804-723-0785
D MERRITT EMP 600		
CA	High Voltage Sales Tarzana	213-881-9194
CA	West/Mark Assoc Mtn View	415-969-1700
WA	ECCO Marketing Seattle	206-364-0200
MALCO DIV MICRODOT INC		
12 PROGRESS DR MONTGOMERYVILLE		
PA 18936 TWX 510-661-8206		215-699-5373
J KAYE EMP 600 ENG 80		
AZ	Sedco Sales Mesa	602-835-6281
CA	Libratronix Anaheim	714-534-7073
CO	Todd & Fry Assoc Englewood	303-761-7801
CT	Pettigrew Co W Hartford	203-233-8533
FL	W M M Assoc Clearwater	813-442-3913
GA	Rep Inc Gainesville	404-534-4091
IL	John G Twist Co Elk Grove Vlg	312-933-0200
IA	S & O Sales Cedar Rapids	319-393-1845
ME	Pettigrew Co W Newton MA	617-969-5770
MA	Component Technology Woburn	617-933-5390
MN	John G Twist Co Bloomington	612-835-2120

MO	SKM Engineering St Louis	314-726-2373
NM	Reptronix Albuquerque	505-881-8001
NY	Sonkin Assoc Mt Vernon	914-668-9809
NY	Ossman Components Rochester	716-424-4460
PA	Jacobson Assoc Hatboro	215-674-2937
VA	Beacon North Fairfax	703-591-1300
WI	John G Twist Co Brookfield	414-782-1185

DISTRIBUTORS

CA	Pyramid Electronics Santa Clara	408-727-9810
NH	Yankee Electronics Manchester	603-625-9746
NJ	BTC Elect Comp Old Bridge	201-536-8000
NY	Progress Elect Plainville	516-443-1700
PA	Peak Electronics Wayne	215-293-9000
TX	Southwest Elect Richardson	214-234-3050

MALLORY COMPONENTS DIV EMHART

3029 E WASHINGTON BOX 986
INDIANAPOLIS IN 46206
TWX 27-2155
S LEYKAUF OVER \$10,000
ADV PG 329

MALLINCKRODT INC BOX 5840	
ST LOUIS MO 63134	
TXW 910-761-0443	314-895-2000
E AHLSTROM EMP 3000 ENG 50 OVER \$10,000	
CA Mallinckrodt LA	800-354-2052
KY Mallinckrodt Paris	800-354-2052

MALLORY CAPACITOR CO 3029

E WASHINGTON BOX 372
INDIANAPOLIS IN 46206
TWX 687-6027
R DONHAM EMP 1600

AL	Mallory Capacitor Huntsville	205-539-1751
AZ	Mallory Capacitor Scottsdale	602-949-7788
CA	Mallory Capacitor Los Angeles	714-523-7992
CA	Mallory Capacitor San Francisco	415-856-1136
CO	Mallory Capacitor Denver	303-457-9373
FL	Mallory Capacitor Orlando	305-277-3064
GA	Mallory Capacitor Norcross	404-263-9519
IL	Mallory Capacitor Chicago	312-364-5750
MA	Mallory Capacitor Boston	617-872-7776
MI	Mallory Capacitor Detroit	313-524-0015
MN	Mallory Capacitor Minneapolis	612-884-2881
MO	Mallory Capacitor St Louis	314-291-8223
NJ	Mallory Capacitor Hillsdale	201-666-3600
NY	Mallory Capacitor Syracuse	315-425-9800
NC	Mallory Capacitor Raleigh	919-872-0711
OH	Mallory Capacitor Dayton	513-299-5505
OR	Mallory Capacitor Portland	503-643-1203
PA	Mallory Capacitor Willow Grove	215-657-4250
TN	Mallory Capacitor Nashville	615-889-1174
TX	Mallory Capacitor Dallas	214-324-2448
FR	Mallory Capacitor Puerto Rico	809-792-2405

MALLORY TIMERS CO 3029

E WASHINGTON ST INDIANAPOLIS
IN 46201 TWX 810-341-3243
E EATON EMP 2500 ENG 50

CA	Hartfield-Kennan-Freytag Inc L A	213-225-1318
CA	Hartfield-Kennan-Freytag Inc Fremont	415-863-2200
CT	Eagle Assoc East Haven	203-467-6542
IL	Dostal & Assoc Belvidere	815-337-4506
MI	Epsco Inc Sterling Hts	313-977-3913
MN	Scott Elctn Sales Mnpls	619-929-2985
NJ	Herbert Rude Assoc Teaneck	201-836-6778
NY	F H Dasson Rochester	716-338-1699
WA	Hartford-Kennan-Freytag Inc Vancouver	503-228-1683

MALWIN ELECTRONICS CORP

52 E 22ND ST PATERSON
NJ 07514 TWX 710-988-5947
G WEBER EMP 35 ENG 5 \$2,500-\$5,000
CA J Dana 18103 Sky Pk S Irvine
MD E S Gallagher Annapolis

CA	J Dana 18103 Sky Pk S Irvine	714-540-0597
MD	E S Gallagher Annapolis	301-757-2055
M & T CHEMICALS INC WOODBRIDGE & RANDOLPH BOX 1104 RAHWAY NJ 07065 TWX 710-998-0766 EMP 1650 OVER \$10,000		201-499-0200
CA M & T Chemicals Pico Rivera		213-723-0991
IL M & T Chemicals Bensenville		312-860-2260
MI M & T Chemicals Southfield		313-353-2820
MO M & T Chemicals St Louis		314-878-0856

MANAGE INC BOX 175-40 NICHOLS RD

CHICOPEE MA 01014
D MENARD EMP 25 ENG 2 \$1,000-\$2,500K

CA	J Dana 18103 Sky Pk S Irvine	714-540-0597
MD	E S Gallagher Annapolis	301-757-2055

M & T CHEMICALS INC WOODBRIDGE & RANDOLPH BOX 1104 RAHWAY NJ 07065 TWX 710-998-0766 EMP 1650 OVER \$10,000

CA	M & T Chemicals Pico Rivera	213-723-0991
IL	M & T Chemicals Bensenville	312-860-2260
MI	M & T Chemicals Southfield	313-353-2820
MO	M & T Chemicals St Louis	314-878-0856

MANHATTAN ELECTRIC CABLE CORP

STATION PLAZA RYE NY 10580
TWX 13-3360
D CERA EMP 122 ENG 5 OVER \$10,000
ADV PG 54

CA	Manhattan Elec Cable LA	213-685-5500
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MA	Manhattan Elec Cable Ashland	617-881-3400
NJ	Manhattan Elec Cable Passaic	201-779-8900
NJ	Manhattan Elec Cable Bridgeton	609-455-8530
TX	Manhattan Elec Cable Houston	713-868-2222

DISTRIBUTORS

GA	Gamble Sales Atlanta	404-346-1100
IL	Bensdorf & Johnson Niles	312-647-8512
IN	C C Electronics Indpls	317-255-6786
IA	Tri-State Elec Sales Council Bluffs	712-328-8825
MD	Whitney Distrib Baltimore	301-944-8080
MI	Holley & Upleger Inc Highland	313-887-0064
MN	Fruens Sales Mnpls	612-546-7173
NJ	American Cable Beverly	609-871-5300
NJ	Mac Electronics Portchester	914-937-WIRE
NC	Gamble Sales Charlotte NC	704-525-9153
TX	Huemmer-OK Inc Irving	214-438-5353

MANNESMANN TALLY CORP 8301

S 180 ST KENT WA 98032
TWX 32-0200
V MADDOX EMP 800 ENG 80 OVER \$10,000K

HENRY MANN INC MANN RD

HUNTINGDON VALLEY PA 19006
TWX 6851160
M HOFFER EMP 95 ENG 6 \$5,000-\$10,000K

MANTEX CORP 1800 METAMORA RD

OXFORD MI 48051
J SANTIAGO EMP 100
AZ Halbar Assoc Phoenix
CA Mesa Engrg Sales Assoc San Diego
IL Thos B Hunter Assoc Highland Park
NJ Greiner & Assoc Grosse Pointe
MI M Barnafsky Shohola PA

IL	Thos B Hunter Assoc Highland Park	312-433-7000
NJ	Greiner & Assoc Grosse Pointe	313-499-0188
MI	M Barnafsky Shohola PA	717-253-5147

DISTRIBUTORS

MANU-TRONICS INC 9115 26 AVE KENOSHA WI 53140	
TXW 910-274-2353	414-694-7700
B HAUBRICK EMP 200 ENG 6 \$5,000-\$10,000K	
IL Ed Joyner & Co Wheeling	312-520-1200
NY Metz Benham Assocs Wynnwood	215-896-7300
WI Artmor Oconomowac	414-567-8563

MARATHON BATTERY CO BOX 8233

WACO TX 76714
TWX 910-894-5203

MARATHON FLITE-TRONICS CO

2525 N NAOMI ST BURBANK
CA 91504 TWX 69-1487
EMP 60 ENG 5

MARATHON PRODUCTS CORP

334 W BOYLSTON ST WEST
BOYLSTON MA 01583
B BAGDASARIAN EMP 10 ENG 2 \$100-\$250K
CA Riggins Elctn Sales Long Beach
NY Northeast Broadcast Lab
S Glen Falls
NY Argil Elctns 50 W 17 St New York
FR Cavoco Equip Ltd Scarborough ON

CA	Riggins Elctn Sales Long Beach	213-598-7007
NY	Northeast Broadcast Lab	
	S Glen Falls	518-793-2181
NY	Argil Elctns 50 W 17 St New York	212-691-8111
FR	Cavoco Equip Ltd Scarborough ON	416-438-6230

MARATHON SPECIAL PRODUCTS

13300 VAN CAMP RD BOWLING
GREEN OH 43402 TWX 241021-01

MARCON AMERICA CORP 310 ERA DR

NORTHBROOK IL 60062
TWX 206-351
H STUBBS EMP 12 ENG 3 OVER \$10,000K

MARCONI INSTRUMENTS DIV

MARCONI ELCTNS INC 3 PEARL CT
ALLENDALE NJ 07401
TWX 710-991-9752
J GARWAITE

AL	Beacon Elect Assoc Huntsville	205-881-5031
AZ	Scientific Devices W Phoenix	602-957-0401
CA	Marconi Inst Westminster	714-895-7182
CA	Amasco Carson	213-516-8561
CA	Amasco Sunnyvale	408-733-8690
CO	Scientific Devices W Bloomfield	303-469-5145
FL	Beacon Elect Assoc Melbourne	305-724-8010
FL	Beacon Elect Assoc Boca Raton	305-392-3500
FL	Beacon Elect Assoc Clearwater	813-796-2378
GA	Beacon Assoc Atlanta	404-256-9640
HI	Hawaiian Industrial Inst Honolulu	808-533-4232
IL	K W Meyers Co Schaumburg	312-882-4808
IN	K W Meyers Indpls	317-783-1030
IA	K W Meyers Co Cedar Rapids	319-363-8987
MI	ICS Chelmsford	617-256-3350
MA	EQS Systems Inc Pontiac	313-961-3042
MN	Kenneth W Meyers Co Mnpls	612-920-7080
MO	P A C KC	816-737-3030
MO	PAC St Charles	314-441-6600
NJ	L & M Assoc Elmwood Pk	201-797-0441
NM	Scientific Devices Albuquerque	505-883-3668
NY	Tae-Rep Inc Whitney Pt	716-586-8710

NC	Beacon Elect Assoc Raleigh	919-787-0330
OH	EQS Systems Chelmsford	216-729-2222
PA	L & M Assoc Andalusia	215-245-6658
TX	Bradenco Dallas	214-243-7261
VA	Scientific Assoc Fairfax	703-385-0600
WA	The Western Rep Marysville	206-653-6031

DISTRIBUTORS

UT	Scientific Devices West Valley City	801-966-0105
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MARDUTH PRODUCTS 1387 LEDGE RD

HINCKLEY OH 44233
W YOUNG EMP 3 ENG 1 UP TO \$100K

CA	Skandia Tool Sales LA	213-256-2229
CA	Valley Tool & Supply Campbell	408-379-6262
CO	Timesaver of Denver Englewood	303-761-9461
IL	Radiation Equipment Highland Pk	312-831-2900
MA	Carroll Engrg & Sales Boston	617-325-0689
MI	Omni Tech Sales Redford	313-534-4156
MN	Machine & Tool Supply Inc Eagan	612-452-4400
NY	Mausner Equip Co Carle Place	516-333-9444
OH	Small Tools Inc Cleveland	216-481-9000
PA	Barwood & Co Huntingdon Valley	215-364-0223
UT	Timesaver Indl SLC	801-973-6960
FR	Frank J Cox Sales Ltd Brampton ON	416-239-7766

MAREL INSTRUMENT CO 907 SE 13 PL

CAPE CORAL FL 33904
EMP 15 ENG 2 \$500-\$1,000K

AL	Vesco Huntsville	205-881-1494
AK	Topp Engrg Sales Anchorage	907-344-4537
IL	EIA Park Ridge	312-298-2290
MI	Von Berg & Assoc Saginaw	317-799-0873
MN	Trask Engineering Mnpls	612-537-2434
NC	Vesco Res Triangle Pk	919-859-1550
OR	Topp Engrs Portland	503-244-7265
PA	Wainwright Tech Sales Pittsburgh	412-487-5055
TX	Technical Prod Inc Dallas	214-357-9603
WA	Topp Engrs Sales Bellevue	206-747-5400

MARINCO COMPUTER PRODUCTS

9940 BARNES CANYON RD
SAN DIEGO CA 92121
TWX 37-1917

CA	TOLKOWSKI EMP 25 ENG 8	619-587-0461
CA	Zylonix Santa Clara	408-730-1263
CA	Data Excellence LA	818-347-5900
CO	Davis Assoc Englewood	303-761-7980
IL	Ad-Tech Inc Parkridge	312-362-3349
KS	Panatek Prairie Vlg	301-258-9358
MD	Simcomp Inc Gaithersburg	301-452-2299
MD	Bomara Chelmsford	617-588-4754
NY	EF Sales Caledonia	516-872-0800
NY	Crane & Egert Elmont	516-872-0800
OH	Dofuss-Root & Co Strongsville	216-238-0300
PA	Monument Tec Assoc Jenkintown	215-884-3737
TX	Mid-Southwest Data Sys Richardson	214-669-0382

MARKAL CO 250 N WASHTENAW AVE

CHICAGO IL 60612
D LYTTON EMP 85 ENG 4

CA	Markal Co 250 N Washtenaw Ave Chicago IL 60612	312-826-1700
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MARKEL CORP BOX 752 NORRISTOWN

PA 19404 TWX 510-680-0929
W NORTON EMP 220 OVER \$10,000K

AZ	Sheller Kahn Phoenix	602-257-9015
AR	MYA Inc Hot Springs	501-282-1365
CA	Natl Wire & Cable Co LA	213-225-5611
CA	Penmark Sales Santa Clara	408-980-1303
CO	Arrowhead Sales Arvada	303-423-5556
FL	Jack Krutek & Assoc Lighthouse Pt	305-941-6544
GA	ElectroSales Inc Atlanta	404-394-1122
IL	W R Bolles Schiller Park	312-678-7888
IN	DM Assoc Indpls	317-842-4424
KS	Mathews & Co Overland Pk	913-642-9063
MD	Faion Lott & Co Glen Burnie	301-744-4611
MA	Datcom Waltham	617-891-4600
MI	Lloyd George & Assoc Farmington	313-474-1505
MN	PWC Co Bloomington	612-831-5999
MO	OCB Sales Lees Summit	816-525-1290
NJ	Heft & Ficarra Colonia	201-381-5193
NM	Sheller Kahn Albuquerque	505-296-0749
NY	Heft & Ficarra Lynbrook	516-599-3351
NY	Apex Assoc Rochester	716-254-6050
OH	Electrolock Inc Chagrin Falls	216-543-6626
OR	James J Backer Portland	303-297-8744
SC	Electrolock Inc Greenville	803-297-9830
TN	Electro Sales Chattanooga	615-267-4260
TX	C J Garvey Co Richardson	214-234-3371
UT	Arrowhood SLC	801-261-1661
WA	James J Backer Seattle	206-285-1300
WI	Wm R Bolles Assoc Mequon	414-241-3320
FR	Marflex Barrett Ltd Mississauga ON	416-828-0220

DISTRIBUTORS

AR	HISCO Little Rock	501-568-3105
CA	Industrial Dielectrics West Anaheim	717-776-5215
CA	Insulation Supply Co San Carlos	415-591-5773
CA	Insulation Supply Co Torrance	213-320-9400
CA	Pacific Switch Van Nuys	818-786-3724

For Mallory Capacitors Call

NATIONAL CAPACITOR

(714) 892-7749 (213) 598-9611 (800) 854-2451 TWX 910-596-1316
NATIONAL CAPACITOR • 11731 MARKON DRIVE • GARDEN GROVE, CALIFORNIA 92641 • U.S.A.

CO	Ward Elec Supply Co Denver	303-333-3541
CT	Atlantic Switch Hartford	203-527-7705
CT	R H Carlson Greenwich	203-531-5500
FL	Arco Dist Davie	305-473-2550
FL	Simcon Elect Ft Lauderdale	305-485-4455
FL	Cablematic Orlando	305-293-5729
GA	Accu-Tech Cable Inc Atlanta	804-221-4767
IL	J J Glenn Corp Addison	312-543-6100
IL	Faye Elec Wire Chicago	312-267-9222
IN	Marian Rubber Indpls	317-638-6325
LA	Long Electrical Sply New Orleans	504-524-8383
MD	Read Plastics Rockville	301-881-7900
MI	McNaughton McKay Elec Co	
	Madison Hts	313-399-7500
MI	R J Vedovell Sales Holland	616-392-2929
MI	Spemco St Clair Shores	313-771-2700
MI	D A Schultz Co Mpls	612-339-7701
MI	H A Holden Inc Mpls	612-333-5353
MO	Lectronix St Charles	314-946-6424
NY	E H Canis Metuchen	201-549-5172
NY	E H Canis Hauppauge	516-273-7711
NY	Simconia Elect Rochester	716-328-3230
OH	Electric Parts & Svc Bedford Hts	216-475-8800
OK	J H Cole Co Okla City	405-235-1761
OK	Earl B Beach Co Okla City	405-943-8553
PA	OTS Wire & Cable Portland	503-649-8556
PA	Smith of Phila Phila	215-743-8298
PA	PEI Sales Corp Munhall	412-462-2300
RI	Wm Dandretta Co Providence	
TN	Technitronics Chattanooga	615-875-5449
TX	Keep Co Dallas	214-788-4403
TX	RSI Austin	512-834-2015
UT	Ward Elec Supply Co SLC	801-262-8498
VA	Read Plastics Norfolk	804-627-0111
VA	Key Resources Roanoke	804-989-7925

MARKEM CORP 150 CONGRESS ST		
KEENE NH 03431		
TXW 710-366-1800	603-352-1130	
A GEMMEILL EMP 675 ENG 60 OVER \$10,000K		
CA	Markem Corp San Jose	408-946-8900
KY	L G Freeman Co Erlanger	606-371-4433
MO	Manufacturers Supplies St Louis	314-231-7886
NC	Markem Corp Charlotte	704-525-1445
TN	Manufacturers Supplies Nashville	615-320-7357
TX	Markem Corp Richardson	214-231-8297
TX	Markem Prods Ltd Kitchener	519-893-7055
TX	Markem Corp Santurce PR	809-724-8400

MARKENRICH CORP 14946 A		
SHOEMAKER AVE SANTA FE SPRINGS		
CA 90670 TXW 298727	213-921-0250	
R GOODPASTURE EMP 7 ENG 2 \$500-\$1,000K		
CA	Crown Electronics No Hollywood	818-877-3550
FL	EMS Inc Melbourne	305-724-1027
FL	Beacon Elects Melbourne	305-724-8010
FL	Beacon Elects Atlanta	404-256-9640
LA	Somers-Reagan Palatine	312-991-1108
LA	EPA Inc Coralville	319-354-5344
VA	Lincoln Tech Sales Reading	617-944-9594
VA	EPA Inc Edina	612-835-9022
VA	Eastern Scientific Mktg	
	Vincentown	609-268-0250
NY	I A Holze Assoc Syracuse	315-479-6641
NY	Beacon Elects Raleigh	919-787-0330
OR	Compreco Hillsboro	503-796-1350
OR	Eastern Scientific Mktg	
	Montgomeryville	215-368-4570
TX	Spectra Sales Richardson	214-234-3600
VA	Eastern Scientific Mktg Vienna	703-281-0778

MARK EYELET INC SUB AMP INC		
206 WAKELEE RD WOLCOTT		
CT 06716	203-756-8847	
J PATRICK EMP 70 ENG 4		
ADV PG 423		
Z	E C Rowell & Co Scottsdale	602-946-4915
A	Local Sales Placentia	714-993-1800
A	Chapman & Chapman Del Mar	619-755-0412
T	Engineered Component Sales	
	Middlebury	203-758-1748
L	Publiverco Orlando	305-898-9361
Y	Chas Sauter & Sons Westwood	201-666-9010
N	Lamons Sales Greenville	615-339-8711
X	Bradenco Dallas	214-243-7261
VA	Comtec Bellevue	206-453-1188

MARKHON INDUSTRIES INC		
200 BOND ST WABASH IN 46992		
TXW 810-290-2725	219-563-2161	
EMP 200 ENG 6 OVER \$10,000K		

MARK V LAB INC 18 KRIPES RD		
EAST GRANBY CT 06026		
TXW 066-998-6000	203-653-7201	
G WHITE EMP 10 ENG 1 \$500-\$1,000K		
Y	J Kantel 53 Carlton Suffren	

MARK WILLIAMS CO 1430 W		
WRIGHTWOOD AVE CHICAGO		
IL 60614 TXW 910-221-1182	312-472-6659	
J PETTY EMP 25 ENG 19		

DISTRIBUTORS		
A	Softsel Inglewood	213-412-1700
A	Softsel Compton	213-604-7400
A	Software Seource San Rafael	415-485-0800
Y	Lifeboat New York	212-860-0300

MARLEE SWITCH CO 933-D		
CENTRAL AVE UPLAND CA 91786		
L TICHY EMP 15 ENG 3 \$1,000-\$2,500K	714-982-8988	
X	Marcom Dallas	214-351-4532
A	Gans & Pugh Assoc Arlington	703-527-3262
R	Unisource Technology Montreal PQ	514-482-2222

MARLIN MFG CORP 12404 TRISKETT		
RD CLEVELAND OH 44111		
EMP 75 ENG 3 \$5,000-\$10,000K	216-941-6200	

MARLOW INDUSTRIES INC 1021		
S JUPITER RD GARLAND TX 75042		
TXW 910-860-5181	214-494-2521	
E BURKE EMP 60 ENG 12 \$2,500-\$5,000K		

MARQUARDT SWITCHES INC		
67 ALBANY ST CAZENOVIA		
NY 13035 TXW 703287 U		
J KENNEDY EMP 50 ENG 2		
ADV PG 446		

AZ	Cristee Meade Co Phoenix	602-996-4878
CA	M-2 Mktg Group Santa Clara	408-986-0676
CA	Universal Components LA	213-641-4255
CO	Cristee Meade Co Lakewood	303-232-0287
GA	Electro Sales Co Atlanta	404-394-1122
IL	Stettner Central Franklin Park	312-671-4208
IN	J & B Engrg Sales Co Fort Wayne	219-483-2813
IA	M-S-B Assoc Marion	319-377-6261
KS	M-S-B assoc Shawnee Mission	913-432-2131
MI	Inter-Comm Grand Blanc	313-695-0665
MN	Arko Sales Co St Paul	612-777-7454
MO	M-S-B Assoc St Louis	314-946-5577
NH	Bell Controls Inc Nashua	603-882-6984
NJ	Ballou Inc Ridgewood	201-444-6990
NY	Ballou Inc Whitestone	212-352-9233
NY	S T Woolard Co Cazenovia	315-655-8145
PA	Gi-Tronics Inc Chester Springs	215-933-8525
SC	R A Sales Easley	803-859-1859
TN	Electro Sales Co Chattanooga	615-267-4260
TX	Rem-Air Components Dallas	214-234-1069
WA	Manoh Engineering Kirkland	206-827-7449
WI	Key Enterprise Elm Grove	414-784-3390

DISTRIBUTORS		
CA	Calif Switch & Signal Gardena	213-770-2330
CA	Sierra West Sunnyvale	408-747-1188
FL	Nurmi elctns W Palm Beach	305-686-8553
FL	Switch Controls Lakeland	813-644-7564
FL	Southeast Components Longwood	305-767-0209
IL	Central Components Rosemont	312-671-4208
IL	Voyager Electronics Itasca	312-773-4900
MI	J V Elect Wilmington	617-273-4300
MI	S F Elect Supply Grand Rapids	616-459-0216
MN	Control Design Supply Mpls	612-721-1628
MN	L-Comp Maryland Hts	314-291-6200
NJ	B & R Elctns Garfield	201-470-0700
OR	Murphy Elect Beaverton	503-632-2001
WA	Murphy Elect Redmond	206-881-1234

MARTEK INDUSTRIES INC BOX 4401		
CHERRY HILL NJ 08034		
R ANZALONE EMP 60 ENG 4 \$2,500-\$5,000K	609-424-5459	

MARTI ELECTRONICS INC BOX 661		
CLEBURNE TX 76031 TXW 794 835		
M MCCLANAHAN EMP 50 ENG 4 \$1,000-\$2,500K	817-645-9163	

MARTINDALE ELECTRIC CO		
EDGEWATER BR BOX 430 CLEVELAND		
OH 44107 TXW 203410	216-521-8567	
W OSBUN EMP 65 ENG 1 \$2,500-\$5,000K		

MARTIN-DECKER 1200 CYPRESS		
CREEK RD CEDAR PARK TX 78613		
TXW 4996710	512-331-0411	
M MILLER EMP 250 ENG 10		

MARTRON INC 2200 S RITCHEY ST		
SANTA ANA CA 92705		
N LEE EMP 60 ENG 2	714-546-7117	

MARWAY PRODUCTS INC 311		
N CLARE ST SANTA ANA CA 92703		
	714-973-1800	

MASSA PRODUCTS CORP 280		
LINCOLN ST HINGHAM MA 02043		
TXW 710-348-6932	617-749-4800	
F STROUT EMP 100 ENG 16 \$2,500-\$5,000K		

MASSCOMP 1 TECHNOLOGY PARK		
WESTFORD MA 01886 TXW 196520		
G BOWEN EMP 480 ENG 120 OVER \$10,000K	617-692-6200	

AL	Masscomp Huntsville	205-837-1036
AZ	Masscomp Phoenix	602-952-0412
CA	Masscomp El Segundo	213-640-8370
CA	Masscomp Irvine	714-956-3388
CO	Masscomp Northglenn	303-450-6100
CT	Masscomp Wallingford	203-284-0112
FL	Masscomp Boca Raton	305-393-1338
GA	Masscomp Atlanta	404-395-0761
IL	Masscomp Deerfield	312-948-9590
IN	Masscomp Indpls	317-293-6130
LA	Masscomp Metairie	504-885-9782
MD	Masscomp Bethesda	301-657-9855
MA	Masscomp Boston	617-692-6200
MI	Masscomp Birmingham	313-644-2960
MN	Masscomp Edina	612-893-0657
NJ	Masscomp Mt Arlington	201-225-9050
NM	Masscomp Albuquerque	505-247-9944
NY	Masscomp Fairport	716-223-1102
OH	Masscomp Cleveland	216-292-8232
PA	Masscomp Pittsburgh	412-367-8345
TX	Masscomp Dallas	214-392-0011
WA	Masscomp Bellevue	206-451-2565

MASTECH INC 83 PINE ST		
WEST PEABODY MA 01960		
T CULLEN	617-535-7490	
CA	Dyna Sales LA	213-268-1175
TX	Dean Assoc Dallas	214-458-1321

MASTER APPLIANCE CORP 2420		
18TH ST RACINE WI 53403		
TXW 269505	414-633-7791	
W JACKSON EMP 75 ENG 2		
CA	Target Sales Panorama City	213-781-1122

NJ Ernie Stefkovic Assoc Cherry		
Hill		
609-667-4066		

NY	Harris & Aldrich Sales	
	New Hyde Park	516-488-2622

FR	White Radio Ltd Burlington ON	416-632-8894
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MASTER BOND INC 215 ENGLEWOOD		
AVE ENGLEWOOD NJ 07631		
J BRENNER EMP 16 ENG 5	201-343-8983	

MASTER CONTROL SYSTEMS INC		
910 N SHORE DR LAKE BLUFF		
IL 60044 TXW 25-3646	312-295-1010	
W STELTER EMP 39 ENG 1		

MASTER ELECTRONIC CONTROLS		
BOX 25905 LOS ANGELES		
CA 90025 TXW 182041	213-452-1336	
J NIZAM EMP 56 ENG 3 \$2,500-\$5,000K		
CA	Master Reps Box 25662 LA	213-393-3177

DISTRIBUTORS		
CA	Argo Elec Vernon	213-588-8233
CA	Control Sales Alhambra	213-283-7633
CA	Master Dist Santa Monica	213-452-1229
CA	B & K Elec Wholesale City	
	of Industry	213-965-5040
CA	Crown Wholesale Elec LA	213-391-5228
CA	Electrical Dist Downey	213-923-9444
CA	Controlco Fresno	209-485-9873
CA	Controlco Ventura	805-644-8203
IL	Automation Comp Park Ridge	312-823-8075
IL	South Side Controls Chicago	312-226-4900
IL	Legend Elec Rosemont	312-298-5080
IL	Lectron Controls Hoffman Est	312-885-8485
IL	Controlco Anaheim	714-634-1661
IL	Controlco Bakersfield	805-323-8111
PA	B & H Dist Allentown	215-435-3534
PA	Fuller Instr Wilkinsburg	412-241-6789

MASTERITE INDUSTRIES CORP		
2841 W LOMITA BLVD TORRANCE		
CA 90505 TXW 910-347-6237	213-775-3471	
J HOGAN EMP 300 ENG 9 OVER \$10,000K		

AZ	J Kinkade Glendale	602-938-8221
CA	B Riell Mission Viejo	714-380-8903
CA	Wedemeyer Sales Sunnyvale	408-733-9344
CO	Components Prod Sales Boulder	303-530-2800
CT	Sands Co Marion	203-628-4363
FL	Southland Components Ft	
	Lauderdale	305-491-6110
MN	North Star Components Mpls	612-553-1880
NJ	G T Assoc Wayne	201-694-6040
NY	Piper Sales Co Albuquerque	505-883-9090
NY	Empire Tech Assoc Binghamton	607-772-0651
PA	Hagy Corp Newtown Square	215-459-0504
TX	Magna Engr Sales Co Dallas	214-349-6171
WA	Magna Engr Sales Co Issaquah	206-392-9155
WI	J M Sales Co Milwaukee	414-546-0040

DISTRIBUTORS
 NY H-S Industrial Equip Rochester 716-424-4800
 TX Roy E Davis & Co Dallas 214-688-0652

MATRIX SYSTEMS CORP 5177
 N DOUGLAS FIR RD CALABASAS
 CA 91302 TWX 910-494-4975 818-992-6776
 R RABIDEAU EMP 40 ENG 2 \$2,500-\$5,000K

AZ Reynolds Assoc Huntsville 800-255-1965
 AL Faser Tech Sales Scottsdale 602-948-4404
 CA Crown Electronics N Hollywood 213-877-3550
 CA IFM Milpitas 408-945-5920
 CO Scientific Devices Broomfield 303-469-5145
 CT Polytek Marion 203-621-4542
 FL Reynolds Assoc Melbourne 305-259-7000
 GA Reynolds Assoc Acworth 800-255-1965
 IL Comtel Midwest Chicago 312-539-4838
 IN Comtel Midwest Indianapolis 317-253-1681
 IA Comtel Midwest Cedar Rapids 319-377-9434
 KS Comtel Midwest Shawnee Mission 913-722-1030
 MI Polytek Assoc Ashland 617-881-4741
 MA Comtel Instrument Southfield 313-358-2505
 MN Comtel Midwest Wayzata 612-476-1551
 MO Comtel Corp St Louis 314-991-5363
 NY Bassin Technical Sales

Mamaroneck 914-698-9358
 NY RJC Assoc Falmouth Hts 617-540-8832
 NC Reynolds Assoc Raleigh 800-255-1965
 OH Comtel Instrument Cleveland 216-442-8080
 OR Topp Engrg Portland 503-244-7265
 PA Comtel Instrument Pittsburgh 412-922-5720
 TX Seaton Corp Carrollton 214-380-0414
 UT Scientific Devices West Valley 801-973-9411
 VA Schibley Assoc Fairfax 703-591-3008
 WA Topp Engrg Bellevue 206-747-5400
 WI Comtel Midwest New Berlin 414-544-6042
 FR Channel One Vancouver BC 604-734-4966

MATROX ELECTRONIC SYSTEMS
 1055 ST REGIS BLVD DORVAL
 PQ H9P 2T4 TWX 50-822798 514-685-2630
 E SEIDEL EMP 250 ENG 130 OVER \$10,000K

AZ Pen-Tech Assoc Huntsville 205-881-9298
 AL PAR Assoc Phoenix 602-437-1480
 CA Computer Modules Sunnyvale 408-337-7727
 CA High-Tech Digital Torrance 213-316-0445
 CO P A R Assoc Aurora 303-363-6636
 FL Pen-Tech Assoc Casselberry 305-678-6809
 GA Pen-Tech Assoc Marietta 404-424-1931
 IL Micro-Tex Inc Schaumburg 312-885-1131
 MD Logical Technologies Pasadena 301-437-7400
 MI Geisting & Assoc Coloma 616-468-4200
 MN Jen-Ray Systems Mnpls 612-831-5060
 NY ABC Elec Sales Co Williston Pk 516-747-6610
 NY KLM Garner Pittsford 716-381-8350
 NC Pen-Tech Assoc Greensboro 919-852-6000
 OR Westerberg & Assoc Portland 503-620-1931
 PA Knowles Assoc Feasterville 215-322-7100
 TX Accudata Inc Plano 214-424-3567
 UT PAR Assoc Salt Lake City 801-537-1900
 WA Westerberg & Assoc Bellevue 206-453-8881
 WI Micro-Tex Inc Waukesha 414-542-5352
 FR Tracan Elctns Corp Ottawa ON 613-722-7667
 FR Tracan Elctns Corp Lachine PQ 514-636-8380

MATSUO ELECTRONICS 2134 MAIN ST
 HUNTINGTON BEACH CA 92648
 TWX 910-596-1828 714-969-2491
 E SHAH EMP 600 ENG 63

AL Beacon Huntsville 205-881-5031
 AZ Elmark Elctns Phoenix 602-269-6241
 AR Beacon Little Rock 501-224-5449
 CA Logan Sales Santa Clara 408-496-0660
 CA Addem San Diego 619-729-9216
 CA Varigon Inc El Toro 714-855-0233
 CO Quatra Inc Littleton 303-795-3187
 FL Dyne-A-Mark Corp Ft Lauderdale 305-771-6501
 GA Beacon Atlanta 404-256-9640
 ID N R Schultz Boise 208-377-8686
 IL Berndt Assoc Chicago 312-283-0713
 IN Needler Sales Co Indpls 317-255-8056
 IA Palatine Sales Cedar Rapids 319-365-8071
 KS Palatine Sales Mission 913-831-0555
 MA Hatch Assoc Needham 617-444-3310
 MI DEM Electronic Sales Warren 313-575-9444
 MN Proud Industries St Paul 612-646-9428
 MO Palatine Sales Hazelwood 314-839-0800
 NJ Champion Elect Sales Medford 609-654-0475
 NM FP Sales Albuquerque 505-345-5553
 NY Henry Abbott & Assoc Seaford 516-781-5256
 NY Net Sales Co Fairport 716-467-4538
 NC Beacon Raleigh 919-787-0330
 OH Marlow Assoc Cleveland 216-991-6500
 OK Beacon Tulsa 918-252-5181
 OR N R Schultz Co Beaverton 503-643-1644
 PA Marlow Assoc Pittsburgh 412-367-8886
 TX Beacon Dallas 214-347-1505
 WA N R Schultz Bellevue 206-454-0300
 WI Berndt Assoc Milwaukee 414-545-8400
 FR Bach Simpson Toronto ON 416-742-5151

DISTRIBUTORS
 AZ Camco Phoenix 602-269-6201
 CA Mouser Elect Santee 714-449-2220
 CA Eric Elect San Jose 408-262-1111
 CA Mock III San Diego 714-560-0515
 CA National Capacitor Garden Grove 714-892-7749
 CA Caspro Sales Sunnyvale 408-734-3020
 CA Projections Unltd Santa Ana 714-261-2323
 IL OHM Electronics Palatine 312-359-5500
 IL Kellner Electronics Skokie 312-677-1120
 MA A W Mayer Co Billerica 617-229-2255
 MA Aved Elect Wilmington 617-657-8310
 MI SRA Detroit 313-965-8550
 NJ Ventronics Kenilworth 201-272-9262
 NJ C H P S Fairfield 201-882-0997
 NY Prime Components Hauppauge 516-582-6258
 NY Tri-Start Elect E Farmingdale 516-293-0400
 NY Masline Rochester 716-546-5373
 OH SRA Cleveland 216-442-2000

OH SRA Dayton 513-228-5255
 PA ECI York 717-486-5334
 PA Century Elect Comps Norristown 215-631-5200
 TX ERA Elects El Paso 915-592-4126
 TX C & W Ft Worth 817-831-0395
 FR Carsten Elctns Scarborough 416-751-5095

MAUREY INSTRUMENT CORP
 4555 W 60 ST CHICAGO IL 60629 312-581-4555
 E MAUREY EMP 50 ENG 6 \$500-\$1,000K
 FL Innovative Mktg Plantation 305-583-8895
 WA Sales & Engrg Assoc Vancouver 206-573-5161

DISTRIBUTORS
 CA Allied Elect Garden Grove 714-554-0731
 CA Allied Elect Hayward 415-487-5250
 CA Allied Elect San Jose 408-727-1690
 FL Allied Elect Ft Lauderdale 305-486-0500
 GA Allied Elect Decatur 404-377-3555
 IL Allied Elect Elgin 312-697-8200
 MD Allied Elect Marlow Hgts 301-423-0161
 MA Allied Elect Wilmington 617-942-0150
 NY Allied Elect Mineola 516-248-2360
 TX Allied Elect Ft Worth 817-336-5413
 WA Allied Elect Seattle 206-547-2827

MAURO ENGINEERING DIV NUMONICS
 CORP 2220 PACK TRAIL
 MOUNT SHASTA CA 96067 916-926-4406
 EMP 10 ENG 2 UP TO \$100K

MAURY MICROWAVE CORP 8610
 HELMS AVE CUCAMONGA CA 91730
 TWX 910-581-3408 714-987-4715
 EMP 104 ENG 6 \$500-\$1,000K

CA Thorson Co San Diego 714-292-8525
 CA Ward Davis Assoc Santa Clara 619-292-8525
 CT Pat Jenks Assoc Wallingford 203-265-9939
 IL Electronic Instrument Assoc

Park Ridge 312-298-2290
 MO Engineering Services Co St Louis 314-997-1515
 NY Lightstone Corp Bridgeport 315-699-5747
 NY RTI Great Neck 516-829-3707
 OH WKM Dayton 513-434-7500
 PA Eastern Instr of Phila Bensalem 215-245-6660
 TX Airep Elctns Dallas 214-349-4360
 VA Creative Mktg McLean 703-442-9100
 WA James Findlay Co Bellevue 206-455-9597

MAXIM INTEGRATED PRODUCTS
 510 N PASTORIA AVE SUNNYVALE
 CA 94086 TWX 310-291641 408-737-7600
 F BECK EMP 105 ENG 20

AL Electronic Mktg Assoc Huntsville 205-536-3044
 AZ Western High Tech Mktg
 Scottsdale 602-949-0673
 CA El Repco Los Altos 415-982-0660
 CA C K Assoc San Diego 619-279-0420
 CA Interstate Mktg Assoc Woodland
 Hills 818-883-7606
 CO Parker Webster Co Parker 303-841-4888
 CT Com-Sales Wallingford 203-269-7964
 FL Dyne-A-Mark Broward 305-771-6501
 FL Dyne-A-Mark Clearwater 813-441-4702
 FL Dyne-A-Mark Maitland 305-629-5557
 FL Dyne-A-Mark Palm Bay 305-727-0192
 FL Dyne-A-Mark Tampa 813-223-7969
 GA EMA Inc Atlanta 404-448-1215
 ID Parker Webster Co Boise 303-841-4888
 ID Westerberg & Assoc 503-297-1719
 IL Carlson Elect Sales Elk Grove 312-956-8240
 IA Dy-Tronix Cedar Rapids 319-377-8275
 KS Dy-Tronix Wichita 316-838-0884
 MD DGR Reps Lutherville 301-583-1360
 MA Com-Sale Needham 617-444-8071
 MO Dy-Tronix Bridgeton 314-291-4777
 MO Dy-Tronix Raytown 816-356-6340
 NH Com-Sale Exeter 603-772-3300
 NJ TAI Corp Bellmawr 609-933-2600
 NM Western High Tech Mktg Albuq 505-884-2256
 NY ERA Commack 516-543-0510
 NY Foster & Wager Rochester 716-385-7744
 NC EMA Inc Raleigh 919-847-8800
 OH Lyons Corp Dayton 513-278-0714
 OH Lyons Corp Richfield 216-659-9224
 OH Lyons Corp Westerville 614-890-2743
 OK ION Tulsa 198-664-0186
 OR Westerberg & Assoc Portland 503-620-1931
 PA Tai Corp Bridgeville 215-627-6615
 SC EMA Inc Greenville 803-233-4637
 TX ION Austin 512-331-7251
 TX Western High Technology El Paso 505-884-2256
 TX ION Grand Prairie 214-647-8225
 TX ION Houston 713-977-4354
 UT Parker-Webster Co SLC 801-266-9939
 WA Westerberg & Assoc Bellevue 206-453-8881
 WI Carlson Elect Sales Milwaukee 414-476-2790

DISTRIBUTORS
 CA Bell Indus Garden Grove 714-220-0681
 CA Bell Indus Sunnyvale 408-734-8570
 CA Hall-Mark San Diego 619-268-1201
 CA Hall-Mark San Jose 408-946-0900
 CA Hall-Mark Torrance 213-217-8400
 CO Bell Indus Wheat Ridge 303-424-1985
 FL Diplomat Elect Clearwater 813-443-4514
 FL Hall-Mark Norcross 404-447-8000
 FL Bell Indus Elk Grove Vlg 312-640-1910
 IL Hall-Mark Woodale 312-860-3800
 IN Graham Elect Indpls 317-634-8202
 IA Bell Indus Cedar Rapids 319-395-0730
 MD Hall-Mark Columbia 310-988-9800
 MA Diplomat Elect Woburn 617-935-9777
 MN Hall-Mark Bloomington 612-854-3223
 NJ Hall-Mark Fairfield 201-575-4415
 NJ Hall-Mark Mt Laurel 609-235-1900
 NY Diplomat Elect Liverpool 315-652-5000
 NY Summit Dist Buffalo 716-687-2800
 NY Hall-Mark Ronkonkoma 516-737-0600
 OH Bell Indus Dayton 513-435-8660

OH Hall-Mark Solon 216-349-4632
 TX Hall-Mark Austin 512-258-8848
 TX Hall-Mark Dallas 241-341-1147
 UT Diplomat Elect SLC 801-486-4134
 WA Bell Indus Waukesha 414-547-8879

MAXI-SWITCH CO 9697 E RIVER RD
 MINNEAPOLIS MN 55433
 TWX 910-576-2690 612-755-7660
 E HELME EMP 160 ENG 10 \$5,000-\$10,000K

AL Montgomery Mktg Huntsville 205-830-0498
 AZ Williams Assoc Scottsdale 602-947-4297
 CA Cook Entrps Elmonte 213-686-2120
 CA Recht Asso Los Altos 415-964-6321
 CT Williams Assoc Commerce City 303-289-5647
 CT Comp Rep Systems Wallingford 617-258-6229
 FL V G Sales Co Largo 305-371-0929
 GA Montgomery Mktg Norcross 404-447-6161
 IL Omni Electronics Barrington 312-381-3067
 IN M S Sales Ft Wayne 219-436-3023
 MD Electronic Mktg Rockville 301-792-9300
 MA Comp Rep Systems Westwood 617-329-3454
 MN R K Sales Mnpls 612-786-5713
 MO West & Assoc St Louis 314-997-1014
 NJ Technimat Englewood 201-569-4200
 NM Williams Assoc Albuquerque 505-255-1638
 NY Tech-Mark Inc Mendon 716-624-3840
 NC Montgomery Mktg Cary 919-467-6319
 OH EMA Centerville 513-433-2800
 OK West & Assoc Tulsa 918-445-7429
 PA Omega Elect Sales Huntingdon
 Valley 215-947-4135
 TX West & Assoc Dallas 214-248-7080
 UT Williams Assoc SLC 801-532-7701
 VA Electronic Marketing Assoc 804-320-8801
 WA Quest Mktg Inc Bellevue 206-747-9424
 FR Renmark Elctns Ltd Toronto ON 416-494-5445

DISTRIBUTORS
 MD Trimarc Systems Rockville 301-231-4994
 NJ TDS Englewood 800-524-0646
 OH Industrial Prod Dist Centerville 513-435-2088
 FR Carsten Elect Scarborough ON 416-495-7705

MAXON PRECISION MOTORS INC
 838 MITTEN RD BURLINGAME
 CA 94010 TWX 910-375-2049 415-697-9614
 EMP 350 ENG 20 \$5,000-\$10,000K

MAXWELL ELECTRONICS BOX 12033
 RESEARCH TRIANGLE PARK
 NC 27709 919-846-1633
 J HARRISON EMP 8 ENG 3
 ADV PG 168

CA Access Technologies Placentia 714-996-3917
 PA G F Smith Assoc Bethel Park 412-831-8395

MAXWELL LABS INC 8888 BALBOA AVE
 SAN DIEGO CA 92123
 TWX 910-335-2063 619-279-5100
 B FOX EMP 580 ENG 203 OVER \$10,000K

MCCOY ELECTRONICS CO 110
 WATTS ST BOX B MT HOLLY
 SPRINGS PA 17065
 TWX 510-650-3548 717-486-3411

MCDANEL REFRACTORY CO 510
 NINTH AVE BOX 560 BEAVER FALLS
 PA 15010 TWX 86-6159 412-843-8300
 A BAKKEN JR EMP 150 ENG 9

MCDONNELL & MILLER ITT
 3500 N SPAULDING AVE CHICAGO
 IL 60618 TWX 25-3376 312-267-1600
 J BECK EMP 200 ENG 6 OVER \$10,000K

MCDONNELL DOUGLAS CORP INDUSTRIAL
 CONTROL PRODS 700 ROYAL
 OAKS DR MONROVIA CA 91016
 TWX 910-585-3246 213-359-8216
 R DAILOR EMP 20

OH Industrial Control Prods
 Box 75 128 Cincinnati 606-371-2400

MCDONNELL DOUGLAS ELECTRONICS
 BOX 426 ST CHARLES MO 63301
 TWX 910-760-1723 314-925-4000
 C KANTER EMP 1600 ENG 255

MCE SEMICONDUCTOR INC 1111
 FAIRFIELD DR WEST PALM BEACH
 FL 33407 TWX 513463 305-845-2837
 S VOLKMAN EMP 180 ENG 120 OVER \$10,000K

MCFADDEN SYSTEMS INC 8953
 ATLANTIC AVE SOUTH GATE
 CA 90280 TWX 677161 213-564-5958
 S GILBERT EMP 43 ENG 5 \$2,500-\$5,000K

AL Space Engrg Sales Huntsville 205-837-6061
 IN Tri-State Tech Sales Indpls 317-924-3568
 MA Forbes Engrg 19 Flint St Salem 617-744-1693
 FR Electrodesign Ltd 1925 52 St Lachine
 Mont PQ

MCGEAN ROHCO INC 2910 HARVARD
 AVE BOX 09087 CLEVELAND *
 OH 44109 TWX 98-5289 216-441-4900
 R MOUTON EMP 145

CA McGean-Rohco Downey 213-803-4311
 CO McGean-Rohco Littleton 303-798-1677
 CT McGean-Rohco Stratford 203-378-7339
 GA McGean-Rohco Atlanta 404-753-2692
 IL McGean-Rohco Willowbrook 312-920-8866
 MI McGean-Rohco Detroit 313-872-1800
 TX McGean-Rohco Dallas 803-631-6630

MC ELECTRONICS INC 12 BURT DR DEER PARK NY 11729	516-586-5125
MCGILL MFG CO INC ELEC DIV 1002 N CAMPBELL ST VALPARAISO IN 46383	219-465-2200
MCI TRANSFORMER CORP 411 MANHATTAN AVE BABYLON NY 11704	516-587-0510
J WILLIAMS EMP 45 ENG 1	
MCLEAN ENGINEERING DIV ZERO CORP BOX 127 PRINCETON JUNCTION NJ 08550 TWX 510-685-2543	609-799-0100
W SLY EMP 150 ENG 9 \$5,000-\$10,000K	
AL Beacon Electronics Huntsville	205-881-5031
AZ Halbar Assoc Fountain Hills	602-837-2464
CA Halbar Assoc Glendale	818-246-8263
CA Halbar Assoc San Mateo	415-349-4700
CO Component Technology Inc Denver	303-758-5750
CT Motoreps Inc Canton	203-693-6366
FL R Smith Assoc Ft Lauderdale	305-772-5100
GA Beacon Electronics Atlanta	404-256-9640
LA Scott Assoc Elmhurst	312-279-5681
L M F Sales Gretna	504-361-4343
MD Marktron Inc Rockville	301-251-8990
MD Marktron Inc Hunt Valley	301-628-1111
MI Motoreps Inc Needham	617-449-3252
MI Jack M Thorpe Co East Detroit	313-779-6363
MN Scott Elect Sales Mnpls	612-929-2985
MO Harris Hanson Co St Louis	314-432-3611
MO Harris Hanson Co Grandview	816-763-6200
NJ Sylvester Assoc Springfield	201-376-3324
NM Fry-Gates Inc Albuquerque	505-262-1525
NY Reagan/Compair Albany	518-489-4777
NY Reagan/Compair New Hartford	315-732-3775
NY Reagan/Compair Fairport	716-271-2230
NY Reagan/Compair Endwell	607-723-8743
NC Beacon Electronics Raleigh	919-787-0330
OR Marlow Assoc Cleveland	216-991-6500
OR Halbar Assoc Beaverton	503-226-0451
PA Inacker Sales Huntingdon Valley	215-947-5660
PA Marlow Assoc Pittsburgh	412-367-8886
TX Milco Mktg Inc Houston	713-723-5003
VA Marktron Inc Charlottesville	804-973-5874
WA Halbar Assoc Redmond	206-882-0990
FR Hammond Mfg Co Ltd Guelph ON	519-822-2960
Gerald Blum Ltd Manchester England	061-747-6311
FR Walter Blum Ltd Zurich Switz	01-3126872

DISTRIBUTORS

FL Component Distributors Ft Lauderdale	305-971-4950
GA Component Distributors Norcross	404-441-3320
MI Wedemeyer Elec Supply Ann Arbor	313-665-8611
NC Component Distributors Raleigh	919-834-9465
TX Component Distributors Dallas	214-644-0373
FR Hammond Mfg Co Guelph ON	519-822-2960

MCLEAN MIDWEST SUB ZERO CORP 4000 83 AVE N BROOKLYN PARK MN 55443 TWX 910-576-2951	612-561-9400
L BUGEY EMP 70 ENG 3 \$5,000-\$10,000K ADV PG 8,209	

MCL INC 10 N BEACH AVE LA GRANGE IL 60525	
LA GRANGE IL 60525	312-354-4350
FW MORGAN EMP 60 ENG 16 OVER \$10,000K	
MA Fegan Assoc Box 307 Reading	617-944-3105

M-C PRODUCTS 7720 E REDFIELD RD SCOTTSDALE AZ 85260	602-998-9577
D MCWILLIAMS EMP 125 ENG 4	

MCVEN ELECTRONICS LAB 20 WEST ST BOX 882 RED BANK NJ 07701	201-741-1716
M VENEZIA EMP 4 ENG 2 UP TO \$100K	

MDB SYSTEMS INC 1995 N BATAVIA ST BOX 5508 ORANGE CA 92667 TWX 910-593-1339	714-998-6900
W WOLLAM EMP 200 ENG 20 OVER \$10,000K	
CA MDB Systems San Jose	408-977-1141
HI Saztec Hawaii Inc Honolulu	808-524-8633
MD MDB Systems Ellicott City	301-992-8800
NJ MDB Systems Elizabeth	201-499-0414
TX MDB Systems Houston	713-271-5411
UT Wyle Elect Mktg Group Salt Lake City	801-974-9953
WA System Tech Sales Seattle	206-462-8088

DISTRIBUTORS

AZ Wyle Elect Mktg Group Phoenix	602-249-2232
CA Wyle Elect Mktg Group El Segundo	213-322-8100
CA Wyle Elect Mktg Group Santa Clara	408-727-2500
CO Wyle Elect Mktg Group Denver	303-457-9953
OR Wyle Elect Mktg Group Portland	503-640-6000
TX Wyle Elect Mktg Group Austin	512-834-9957
TX Wyle Elect Mktg Group Dallas	214-235-9953
WA Wyle Elect Mktg Group Seattle	206-453-8300
FR Transduction Ltd Mississauga ON	416-625-1907

MDC INDUSTRIES INC COLLINS & WILLARD STS PHILADELPHIA PA 19134	215-426-5925
H HAL LOCK EMP 30 ENG 2 \$1,000-\$2,500K	

MDF PRODUCTS INC 7 JOHNSON DR DANBURY CT 06811 TWX 4998051	203-743-3579
M DEFAZIO	

MEA DIV UNIVERSAL INSTRUMENTS CORP BOX 825 BINGHAMTON NY 13902 TWX 510-252-1990	607-772-7563
R EGAN EMP 450 ADV PG 371	

For Sales Offices See Universal Instruments Corp Listings.

MEASUREMENTS GROUP INC BOX 27777 RALEIGH NC 27611	
TXW 510-920-0770	919-365-3800
R BENNETT	

MEASUREMENT SYSTEMS INC 121 WATER ST NORWALK CT 06854 TWX 710-468-2185	203-838-5561
J CRONAN EMP 75 ENG 8 ADV PG 132	

IA S & O Sales Inc Cedar Rapids	319-393-1845
MD Robert Elctn Sales Columbia	301-995-1900
MA Datarep Hudson	617-481-0333
PA Robt Meyers Assoc Philadelphia	215-224-1663
TX O M Assoc Richardson	214-690-6746
VA Robert Elctn Sales Richmond	804-276-3979

MECA ELECTRONICS INC 459 E MAIN ST DENVER NJ 07834	
TXW 710-987-8421	201-625-0661
G IMPINK EMP 22 ENG 4 \$250-\$500K	
FR Electrodesign Ltd Lachine PQ	514-363-5120

MECHANICAL ENTERPRISES INC 461 CARLISLE DR HERNDON VA 22070 TWX 710-832-0942	703-435-9496
R TWYFOUR EMP 10 ENG 3 \$1,000-\$2,500K	

CA Wale Electronic Assoc Irvine	714-551-4004
CA Phil Bruno & Assoc Oakland	415-569-6700
CT Technology Products Bristol	203-583-0703
FL Semi Casselberry	305-831-2822
IL Coombs Assoc Arlington	312-439-9810
IN Coombs Assoc Ft Wayne	219-747-7661
IA Coombs Assoc Cedar Rapids	319-362-4116
MA Technology Products Brookline	617-731-0858
MI Norwood Scroggs Co Jackson	517-750-1170
NY Sonkin Assoc Yonkers	914-968-8282
NY Lloyd Hart Assoc Rochester	716-225-4455
TX Stasco Dallas	214-239-4517
WI Coombs Assoc Milwaukee	414-351-6123
FR Delco Electronics Ltd Ontario	416-738-1090

DISTRIBUTORS

CA Electric Switches LA	213-660-1310
CA Sigma Electronics San Diego	619-292-1523
IL Hawk Elect Wheeling	312-459-4030
NY Kintronics Mt Vernon	914-668-9885
FR RAE Industrial Burnaby BC	604-291-8866

MECHANICAL PRODUCTS INC 1824 RIVER ST BOX 729 JACKSON MI 49204 TWX 810-253-0827	517-782-0391
A BANKS EMP 300 ENG 8	

AZ Cantec Tempe	602-829-0191
CA Pass Assoc Sunnyvale	408-735-9040
CA Universal Components LA	213-641-4255
CO West Inc Denver	303-477-8180
FL OEM Mktg Orlando	305-299-1000
GA Electro-Mech Atlanta	404-447-6478
ID Cascades Components Boise	208-349-9886
IL Perhats Assoc Barrington	312-381-6360
KS Midtec Assoc DeSoto	913-441-6565
MD Muncy Sales Pikeville	301-484-6376
MI Eymon Assoc Southfield	313-354-3430
MN John J Exon Co St Paul	612-636-5533
NH C R Burnham Assoc Durham	603-868-2282
NJ Grimm Siegel Assoc West Caldwell	201-575-9300
NY Noeth-Honsinger Assoc Pittsford	716-586-9002
OH Rockford Controls Dayton	513-898-5452
PA Arnold Assoc Jenkintown	215-742-0600
TX B Gunther Inc Dallas	214-691-8500

DISTRIBUTORS

CA Electro Sonics Van Nuys	818-988-4455
KS Airtechnics Wichita	316-267-2849
NY C Tennant Elect Hauppauge	516-434-8200
NY Genelco Hauppauge	516-231-1144
NY Linrose Electronics Plainview	516-293-5250
OH KM Co Dayton	513-890-6734
TX Associated Aircraft Sply Dallas	214-331-4381
TX Bell Comp Sales Arlington	817-461-5303

MECHANICAL RUBBER PRODUCTS CORP FORESTER AVE WARWICK NY 10990	914-986-2271
V MORGLEWICZ EMP 150 ENG 3	
MD C R Robison Ellicott City	301-465-1551
NC Hile Assoc Box 19171 Greensboro	919-282-1532
PA E Evans 1175 Maple Av Lancaster	717-392-1653

MECHANICAL TECHNOLOGY INC 968 ALBANY SHAKER RD LATHAM NY 12110 TWX 685-4572	518-785-2211
J O'CONNOR EMP 600 ENG 300 OVER \$10,000K	
CA Howard & Co San Francisco	415-589-3050
CA Brooks-Moore Assoc Santa Ana	714-544-8900
CO TMML Lakewood	303-232-1516
GA MicroSpec Inc Lilburn	404-921-3840
OH Dietrich & Assoc Cleveland	216-781-1855
TX Mot Assoc Houston	713-777-5773

MECHANIZATION ASSOCS 181 E EVELYN AVE MT VIEW CA 94041	415-967-4262
B KALVELAGE EMP 10 ENG 2 \$100-\$250K	

AZ Smolen Assoc Scottsdale	602-945-4672
CA REPCO Semi Valley	805-583-5710
CT Wexler-Court Sales Co Fairfield	203-334-1122
MN Production Automation Minnetonka	612-935-1414

MEDAGLIA ENGINEERING CO 811 E BALTIMORE ST BALTIMORE MD 21202 TWX 910-350-8489	301-685-0960
J BROOKS EMP 8 ENG 2 \$250-\$500K	
VA Marjac Svcs Annandale	703-425-5874

MEDALIST CHAMPION SCREW 1814 N 15 AVE MELROSE PARK IL 60160	312-345-3130
A LACK EMP 200 ENG 5	

MEDICAL & SCIENTIFIC INSTRUMENTS INC BOX 532 BETHLEHEM PA 18016	215-865-3432
K GNERLICH	

MEGATEL COMPUTER TECHNOLOGIES 150 TURBINE DR TORONTO ON M5L 2S2 TWX 065 27453	416-745-7214
P NELSON EMP 20 ENG 10 \$1,000-\$2,500K	

MEGATEST CORP 880 FOX LANE SAN JOSE CA 95131	408-998-7110
TXW 910-338-0259	
B CHAMBERLAIN EMP 450 ENG 90 OVER \$10,000K	
MA Megatest Newton	617-964-7850
TX Megatest Austin	512-452-0332

MEGATRON ELECTRONIC POWER RISING SUN RD BOX 358 BORDENTOWN NJ 08505	
TXW 510-685-3645	609-298-7300
C HARRISON EMP 40 ENG 4 OVER \$10,000K	

MEISSNER INDUSTRIES 551 RTE 10 DOVER NJ 07801	201-366-1700
J MEISSNER EMP 10 ENG 1 \$100-\$250K	

MEKONTROL INC 56 HUDSON ST NORTHBORO MA 01532	617-393-2451
J RICHINICK EMP 47 ENG 5 \$2,500-\$5,000K	

AL Austin Brown Assoc Birmingham	205-822-6198
CA TSR Theberge Sales Repts Fremont	415-651-8775
CA Sofia Elec Co Commerce	313-728-3466
CO Hubert Kaub & Co Englewood	303-761-5881
FL Luttrell Eng Sales Tampa	813-876-0863
GA Austin Brown Assoc Atlanta	404-457-6381
IL Tourtelot Co Itasca	312-250-9300
IN Dorsey-Alexander Inc Cincinnati	513-221-7518
KS Duane Hertel & Assoc Olathe	913-829-8188
KY Dorsey-Alexander Cincinnati	513-221-7518
MI Xanthus Inc Troy	313-528-2000
MN Northstar Motion & Control St Paul	612-770-5311
MO Terry & Hodges St Louis	314-965-0746
NY Swedelco Hawthorne	914-747-0101
NY Lawrence Ind Sales Lancaster	716-685-1993
OH Zenith Engrg Sales Co Cleveland	216-431-7101
PA C A Briggs Co Glenside	215-885-2244
SC EMC Inc Greenville	803-232-7616
TN Austin Brown Assoc Brentwood	615-373-2068
VA Gregg & Assoc Midlothian	804-435-1525
VA Allied Elec Agents Bothell	206-823-4749
WV Process Engrg Co Pittsburgh Pa	412-561-5050
WI E A Dickinson & Assoc Milwaukee	414-264-1080
FR Tervcon Mississauga ON	416-671-0680

DISTRIBUTORS

CA Timer & Indus Controls Glendale	818-240-3600
CO Hubert Kaub & Co Englewood	303-761-5881
FL Chemco Elec Supply Tampa	813-621-8611
GA Electrical Control Prods Atlanta	404-455-1216
IL Otto Frankenbush Inc Chicago	312-647-0755
IL Westinghouse Elec Peoria	309-673-0707
KS Control & Drives Systems Olathe	913-829-8188
MI Axis Systems Troy	313-689-7575
MN Jasper Engrg Hibbing	218-262-3421
MO Glasco Elec Co Kansas City	816-421-7020
NJ Metro-Clifton Elec Sply Clifton	201-772-0506
NJ Morrison Elec Morristown	201-538-1600
NJ Metro Elec Supply New Brunswick	201-846-4000
NY MEKTRON Hawthorne	914-747-0101
OH Cincinnati Controls Cincinnati	513-421-4460
OH Akron MPT Co Akron	216-724-9361
PA C A Briggs Glenside	215-885-2244
TX Chaparral Elec Sply Amarillo	806-376-5567

MELCOR-MATERIALS ELECTRONICS PRODUCTS CORP 996 SPRUCE ST TRENTON NJ 08648 TWX 843314	609-393-4178
R DUENN EMP 150 ENG 7 \$5,000-\$10,000K ADV PG 142	

CO Rep Sales Inc Ft Collins	
NY R G Minges Agency Rochester	

MELLER CO ADOLF BOX 6001 PROVIDENCE RI 02940	
TXW 92-7543	401-331-3717
D LYDON EMP 45 ENG 2 \$1,000-\$2,500K	

MELLES GRIOT 1770 KETTERING ST IRVINE CA 92714 TWX 678-447	714-556-8200
EMP 65 ENG 6	

MELSEY CORP 202 CARLE RD CARLE PLACE NY 11514	516-333-0655
J NAPOLIN EMP 17 ENG 3 \$500-\$1,000K	

MEMODYNE CORP 220 RESERVOIR ST NEEDHAM MA 02194	
TXW 92-2537	617-444-7000
J MCETTRICK EMP 45 ENG 6 \$2,500-\$5,000K	

CA Nelson Elctns Sales Santa Clara	408-980-1950
GA Magaro & Assoc Atlanta	404-252-6609
HI Aloha Assoc Box 15307 Honolulu	808-941-1574
IL Scott Assoc 445 May St Elmhurst	312-279-5681
KS Midtec Assoc 7702 Mize Rd DeSoto	913-441-6565
KY EQS Systems Box 445 Chesterland	216-729-2222
MA Burton Forrester Assoc Braintree	617-848-7234
MI EQS Systems Detroit	313-961-3042

MO Midtec Assoc Florissant..... 314-837-5200
 NY Crane & Egert Corp Elmont..... 516-872-0800
 NY KLM/Garner Pittsford..... 716-381-8350
 NC Magaro & Assoc Greensboro..... 919-294-4783
 OH EQS Systems Box 445 Chesterland..... 216-729-2222
 OR Topp Eng Sales Portland..... 503-244-7265
 TX Acudata Inc Box 58786 Houston..... 713-488-8195
 WA Topp Eng Sales Box 250 Bellevue..... 206-747-5400
 FR Canadian Dynamics Nova
 Ltd Vancouver BC..... 604-872-8106
 FR Vitel Electronics St Laurent PQ..... 514-331-7393
 FR Vitel Electronics Mississauga ON..... 416-676-9720
 FR Vitel Electronics Kanata ON..... 613-596-0400

MEMOREX CORP SAN TOMAS
 AT CENTRAL EXPWY SANTA CLARA
 CA 95052 TWX 910-338-0149..... 408-987-1000
 EMP 11000 ENG 675 OVER \$10,000K

MEMORY PROTECTION DEVICES INC
 320 BROAD HOLLOW RD
 FARMINGDALE NY 11735..... 516-454-0340
 L ASIGHIERI EMP 4 ENG 2 \$500-\$1,000K

DISTRIBUTORS
 CA Cypress Elect Sales San Jose..... 408-945-8400
 CA Tauber Electronics San Diego..... 619-274-7242
 NJ Mars Electronics Plainfield..... 201-757-4333

MEMTRON TECHNOLOGIES INC
 1400 WEISS ST FRANDEMUTH
 MI 48734..... 517-652-2656

MENSOR CORP 2230 IH-35 SOUTH
 SAN MARCOS TX 78666
 TWX 776487..... 512-396-4200
 J GORDON EMP 95 ENG 5 \$1,000-\$2,500K

MEPCO/CENTRALAB INC 1140
 INDIANTOWN RD JUPITER
 FL 33458..... 305-842-3201
 EMP 3000 ENG 125 OVER \$10,000K

AL Over & Over Huntsville..... 205-837-7105
 AZ Mepco/Centralab Tempe..... 602-968-9573
 CA Mepco/Centralab Milpitas..... 408-945-1020
 CA Mepco/Centralab Sherman Oaks..... 818-986-4892
 CO Mepco/Centralab Englewood..... 303-779-9696
 FL Mepco/Centralab Ft Lauderdale..... 305-485-0115
 GA Over & Over Inc Norcross..... 404-449-6205
 IL Mepco/Centralab Des Plaines..... 312-827-4487
 IN Carrao Marsh Inc Ft Wayne..... 219-637-5548
 IA Lorenz Sales Cedar Rapids..... 319-377-4866
 KS Lorenz Sales Overland PK..... 913-649-5556
 MD Delta III Assoc Columbia..... 301-730-4700
 MA Mepco/Centralab Stoneham..... 617-438-6050
 MI Multimore Sales Novi..... 313-349-0260
 MN Mepco/Centralab Mpls..... 612-831-5212
 MO Lorenz Sales University City..... 314-997-9558
 NE Lorenz Sales Lincoln..... 402-475-4660
 NJ Ed Glass Assoc Englewood Cliffs..... 201-592-0200
 NY Empire Tech Assoc Binghamton..... 607-772-0651
 NC Over & Over Inc Charlotte..... 704-331-9010
 OH Mepco/Centralab Dayton..... 513-278-5842
 OR Eclipse Mktg Group Beaverton..... 503-542-1661
 PA Bresson Assoc Narberth..... 215-664-6460
 TX Mepco/Centralab Richardson..... 214-231-8274
 WA Eclipse Mktg Group Redmond..... 206-885-6991
 WI Mepco/Centralab Milwaukee..... 414-228-4242
 FR Philips Elctns Scarborough ON..... 416-292-5161
 FR Philips Elctns Montreal PQ..... 514-342-9180
 FR Philips Elctns Vancouver BC..... 604-435-4411
 FR Arwin Tech Sales Vancouver BC..... 604-980-4557
 FR Alltemp Product Co Pickering ON..... 416-831-3311
 FR McHugh Elctns Pickering ON..... 416-831-4770
 FR M Anderson Co Hato Rey PR..... 809-781-9321

MERCO PRODUCTS INC 1298
 BETHEL DR EUGENE OR 97402..... 503-688-7331
 EMP 53 ENG 1 \$2,500-\$5,000K

MERCOTAC INC 7167 CONSTRUCTION
 CT SAN DIEGO CA 92121
 TWX 469816..... 619-566-2750
 B ENIGENBURG EMP 12 ENG 2 \$500-\$1,000K

DISTRIBUTORS
 NY Shorteck Inc Orchard Park..... 716-662-6100

MERCURY ELECTRONIC CO BOX 335
 ATLANTIC HIGHLANDS NJ 07716
 TWX 132432..... 201-291-1600
 L BRETT EMP 20 ENG 2 \$500-\$1,000K
 ADV PG 516

MERECO DIV METACHEM RESINS CORP
 1505 MAIN ST WARWICK
 RI 02893..... 401-828-4550
 H SPIVACK EMP 50 ENG 5 \$1,000-\$2,500K

FL P Rosefield Tamarac..... 1-305-722-4779
 IL Charles Clark Co Naperville..... 312-357-2567
 NJ Heft & Ficcara Assoc Colonia..... 201-381-5193
 NY Heft & Ficcara Assoc Lynbrook..... 516-599-3351
 NC Polymer Concepts Charlotte..... 704-523-1001
 OH H L Simcox Worthington..... 614-885-8995

MERIDIAN LAB 2415 EVERGREEN
 RD BOX 156 MIDDLETON WI 53562
 TWX 754381..... 608-836-7571
 C KRAUSE EMP 27 ENG 6 UP TO \$100K
 IL V Guarino Oak Park..... 312-386-5810
 MN Trask Engrg Inc Mpls..... 612-537-2434
 NH Mech-Tron Co Merrimack..... 603-424-5300
 NJ PAR Assoc Hohokus..... 201-444-6200
 OH Lectro-Quip Sales Brecksville..... 216-526-6150

MERRICK ENGINEERING INC
 3070 SIDCO DR BOX 40664
 NASHVILLE TN 37204 TWX 810
 371-1267..... 615-259-9300
 J DWYER EMP 38 ENG 9 \$2,500-\$5,000K

MERRIMACK INDUSTRIES INC
 41 FAIRFIELD PL WEST CALDWELL
 NJ 07006 TWX 710-734-4314
 EMP 220 ENG 20 OVER \$10,000K

MERRIMACK MAGNETICS CORP
 121 HALE ST LOWELL MA 01851
 TWX 710-343-5670..... 617-458-1487
 R BOUCHER EMP 400 ENG 6 OVER \$10,000K

MESA TECHNOLOGY CORP 16021
 INDUSTRIAL DR GAITHERSBURG
 MD 20877 TWX 710-828-9702..... 800-638-2039
 J DALEY EMP 100 ENG 10

MESUR-MATIC ELECTRONICS CORP
 50 GROVE ST SALEM MA 01970..... 617-745-7000
 K EVANGELIDIS EMP 12 ENG 2 \$250-\$500K

IL KGA Engrg Co Libertyville..... 312-343-6500
 MD Macrotech Assoc Glen Burnie..... 301-437-5588
 MO Electro Mechanical Assoc
 Bridgeton..... 314-291-8661
 NY L-Tron Corp Latham..... 518-785-5032
 PA Wyncote Instrumentation
 Co Glenside..... 215-572-6500

METAL FORMING OPER GTE PRODS CORP
 1128 ROOSEVELT AVE YORK
 PA 17404 TWX 510-657-4229..... 717-848-8080
 JBREIL EMP 450 ENG 30 OVER \$10,000K

AZ Sylvania Phoenix..... 602-956-6200
 CA Sylvania LA..... 213-726-1666
 CA Sylvania Burlingame..... 415-697-3500
 CT Sylvania Watertown..... 203-274-5435
 GA Sylvania Atlanta..... 404-762-1781
 IL Sylvania Elk Grove Vlg..... 312-593-3400
 MA Sylvania Salem..... 617-777-1900
 NJ Sylvania Teterboro..... 201-288-9484
 OH Sylvania Dayton..... 513-223-6227
 TX Sylvania Carrollton..... 214-247-7800
 FR Sylvania Gurabo PR..... 809-737-7811

METALPHOTO DIV HORIZONS RSCH INC
 18533 S MILES RD CLEVELAND
 OH 44128 TWX 810-421-2988..... 216-475-0555
 EMP 100 ENG 2 \$5,000-\$10,000K

METAL REMOVAL TOOLING DIV
 FEDERAL-MOGUL CORP 5740
 N TRIPP AVE CHICAGO IL 60646
 TWX 910-221-0288..... 312-583-8200
 B RACKOW EMP 380 ENG 22 OVER \$10,000K

DISTRIBUTORS
 CA Southwest Ind Sup Glendale..... 213-245-8921
 CA Advance Elec Sales Belmont..... 415-592-4550
 MA All Rite Tool Sales No Billerica..... 617-667-8391
 VA Chemical Etching Equip
 Alexandria..... 703-971-2646

METAPLAST ELECTROCHEMICALS CORP
 915 WESTCHESTER AVE BRONX
 NY 10459..... 212-328-2444
 J LESTER EMP 3 ENG 1 \$100-\$250K

METATEK INC 290 COON RAPIDS
 BLVD W MINNEAPOLIS MN 55433
 TWX 499-4418..... 612-786-8253
 D HALLBLADE EMP 6 ENG 4 \$250-\$500K
 CA Computer Modules Sunnyvale..... 408-737-7727
 CA R Friedman Assoc Woodland Hills..... 818-702-0665
 IL Com Systems Palatine..... 312-934-0580
 IN Gerhard & Assoc Noblesville..... 317-773-5531
 MI Walcom Troy..... 313-649-5210
 MN RAE Assoc Minneapolis..... 612-941-3221

MO Wesley Jennings Assoc
 Chesterfield..... 314-532-6899
 NY Travco Roslyn Heights..... 516-621-3223
 RI Spacemarc Assoc Greenville..... 401-232-2201
 TX Trey Cox Houston..... 713-891-4228
 VA CMT Inc Great Falls..... 703-759-5506
 FR Prism Advanced RF Pickering, ON..... 416-839-9900

DISTRIBUTORS
 IL Data Commun Brokers Champaign..... 800-637-1127
 NJ Glasgal Communications Northvale..... 201-768-8082
 TX Communitech Inc Houston..... 713-955-7767

METAVAC INC 45-68 162 ST
 FLUSHING NY 11358..... 718-445-0400
 C SISLER EMP 40 ENG 6

METELICS CORP 1031-C E DUANE AVE
 SUNNYVALE CA 94086
 TWX 910-339-9537..... 408-737-8181
 E PENDELTON EMP 41 ENG 6 \$1,000-\$2,500K

AZ PTL Electronics Mesa..... 602-827-1656
 CA Thorson Co of So Cal Goleta..... 805-964-8751
 CA Jay Stone & Assoc Los Altos..... 415-948-4563
 CO Morbak Marketing Loveland..... 303-669-8900
 FL Snow Co Fort Lauderdale..... 305-563-2448
 MA Wayland Engrg Sales Natick..... 617-655-6080
 MN Deerland Dist Inc Mpls..... 612-331-6433
 MO Abrams & Assoc St Louis..... 314-569-0447
 NY Aaron & Co Greenvale..... 516-621-0630
 NY R & D Assoc Liverpool..... 315-457-0100
 OR Thorson Co Beaverton..... 503-644-5900
 PA M Lader Co Lafayette Hill..... 215-825-3177
 TX Lear Assoc Richardson..... 214-231-5388
 WA Thorson Co Bellevue..... 206-455-9180

METHEUS CORP BOX 1049 HILLSBORO
 OR 97124..... 503-640-8000
 J HUGHES EMP 120 ENG 50
 CA Metheus Corp Costa Mesa..... 714-432-6311
 CA Metheus Corp Sunnyvale..... 408-773-8950
 NH Metheus Corp Nashua..... 603-888-9950
 TX Metheus Corp Kingwood..... 713-358-9858
 VA Metheus Corp Vienna..... 703-821-3135

METHODE ELECTRONICS INC
 7444 W WILSON AVE CHICAGO
 IL 60656 TWX 910-221-2468..... 312-867-9600
 R CLOSE EMP 1000 OVER \$10,000K

METHODE ELECTRONICS INC
 INTERCONNECT PRODS DIV
 1700 HICKS RD ROLLING MEADOWS
 IL 60008 TWX 910-687-0760..... 312-392-3500
 S LANDEENE EMP 190 \$5,000-\$10,000K

METHODS RESEARCH 383 ASBURY
 AVE DEPT BG FARMINGDALE
 NJ 07727..... 800-631-2233

METHOD SYSTEMS INC 3511
 LOST NATION RD WILLOUGHBY
 OH 44094 TWX 284574..... 216-942-2100
 D COX EMP 4 ENG 2 \$250-\$500K

METRABYTE CORP 254 TOSCA DR
 STOUGHTON MA 02072..... 617-344-1990
 B BAILEY EMP 30 ENG 6 \$2,500-\$5,000K

METRAPLEX CORP 7310 GROVE RD
 FREDERICK MD 21701
 TWX 697-4248..... 301-695-8050
 C WEAVER EMP 75 ENG 10 \$5,000-\$10,000K

METRIC SYSTEMS CORP 645
 ANCHORS ST FORT WALTON BEACH
 FL 32548 TWX 702-447..... 904-244-9600
 W PRYOR EMP 600 ENG 87 OVER \$10,000K

METRITAPE INC BOX 2366
 LITTLETON MA 01460
 TWX 92-3492..... 617-369-7500
 A ESSMAN EMP 25 ENG 3 \$1,000-\$2,500K

DISTRIBUTORS
 OH B C Engineering Cincinnati..... 513-591-6122
 AL Spader & Assoc Birmingham..... 205-879-1366
 AZ Utility Products Phoenix..... 602-840-3455
 CA Johnson Assoc Santa Clara..... 408-984-4626
 CA Lawless Enterprises Escondido..... 619-749-3910
 GA Spader & Assoc Decatur..... 404-296-3024
 HI Clemco Honolulu..... 808-836-2211
 KS Hickman Shawnee Mission..... 913-362-4300
 MD Cirbee Reco Beltsville..... 301-593-5010
 MA Abbott Assoc Acton..... 617-263-5047
 MI Basic Service Corp Detroit..... 313-837-8820
 MN Resource Technology St Paul..... 612-644-3064
 NE H G Klug Co Omaha..... 402-397-8910

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NJ	Cosine Plainfield	201-654-3551
NY	Alpha Co Williamsville	716-633-1342
OK	B C Engineering Cincinnati	513-591-6122
OH	Automatic Engineering Tulsa	918-585-5703
OR	J N Murrell Milwaukee	503-654-9066
PA	Wainwright Tech Sales Pittsburgh	412-487-5505
TX	Dixon Engineering Houston	713-644-8052
UT	Highland Technical American Fork	801-756-2634
VA	Brenner Technical Sales Richmond	804-272-8522
FR	CD Nova Calgary AB	403-255-2017
FR	CD Nova Tech Thornhill ON	416-731-6043
FR	Chevrier Instrument Montreal PQ	514-238-2553
FR	Atlantic French Heat	
	Bedford NB	902-835-7201
FR	C D Nova Vancouver BC	604-872-8106

METRIX INSTRUMENT CO 1711		
TOWNHURST DR HOUSTON TX 77043		
TX	TX 77-5486	713-461-2131
W BROWN EMP 60 ENG 4 \$2,500-\$5,000K		
CA	Uni-Tech Engr Sales Birmingham	205-967-7441
AL	Sciencal Sales Development	
	San Francisco	415-346-1655
FL	L M Crowe Co St Petersburg	813-894-0249
GA	Elam Engr Sales Acworth	404-974-3400
IL	Martec Assoc Arlington Hts	312-956-8090
IN	O P Smith Speedway	317-244-1497
LA	Measurements Inc New Orleans	504-949-1192
MI	Basic Svc Corp Detroit	313-837-8820
NY	L-Tron Assoc Rochester	716-436-4410
NY	Metrotek White Plains	914-631-4758
NC	Gen Elctn of Charlotte Charlotte	704-392-1000
PA	Control Equip Inc Cinnaminson	609-829-1447
TX	Dyna Protec Sales Houston	713-391-8774
WA	Topp Engr Sals Bellevue	206-747-5400
FR	Millar Williams Hydronics	
	Burlington ON	416-637-9496
FR	Technical Reps Ponce PR	809-843-2260

DISTRIBUTORS

CO	R A Mayes Co Denver	303-893-2264
MO	Ozark Elect Mktg St Louis	314-423-7200
TX	Tech Rep Mktg Dallas	214-241-2434
VA	Scientific Assoc Fairfax	703-385-0600

METRO CIRCUITS INC 195		
LAGRANGE AVE ROCHESTER		
NY 14613		
R KNAPP EMP 33 ENG 4		
ADV P3 362		
FL	SEC Inc Deerfield Beach	305-426-4601
MA	Tom Maguire Assoc Norwood	617-551-0500
MI	R Eschbach Lansing	517-482-8189
NJ	Robert Birdsong Assoc Caldwell	201-226-5220
NJ	Danco Elect Sales Corp	
	Cherry Hill	609-424-5590
NY	J McCarthy Blasdel	716-823-0726
NC	Sales Engr Inc Raleigh	919-847-0202
OH	S J W & Assoc Olmstead	216-734-7407
VA	N Webb Abington	703-628-5092

METROLOGIC INSTRUMENTS INC		
143 HARDING AVE BELLMAWR		
NJ 08031 TWX 83-4694		
609-933-0100		
J EDWARDS EMP 110 ENG 15 \$5,000-\$10,000K		
CA	Data Automation Group	714-891-4727
FL	Advanced Bar Code Products	
	Altamonte Springs	305-862-0383
OH	Tharo Systems Brunswick	216-273-4408
TX	C D S Inc Dallas	214-380-0671

METRON OPTICS INC BOX 690		
SOLANA BEACH CA 92075		
619-755-4477		
P KEMPF EMP 22 ENG 3 \$500-\$1,000K		

METROPOLE PRODUCTS INC BOX 309		
STAFFORD VA 22554 TWX 904059		
703-659-2132		
G DEPAOLA EMP 12 ENG 4 \$500-\$1,000K		

METROPOLITAN CIRCUITS INC		
3232 S FAIRVIEW ST SANTA ANA		
CA 92704 TWX 67-8355		
714-549-2204		
R BERGER EMP 500		
CA	J Allemen Palo Alto	415-325-3032
CA	B Evans San Diego	619-450-1101
FL	N Stellmach St Petersburg	813-391-1807
IL	K Prather Schaumburg	312-397-3122
PA	C Stauffer Lansdale	215-584-6983

METROSONICS INC BOX 23075		
ROCHESTER NY 14692		
TWX 853-348		
716-334-7300		
S LEMBARIS EMP 90 ENG 20 \$5,000-\$10,000K		
AZ	Kluth Entrps Apache Jct	602-982-5461
CA	Reider Assoc Belmont	415-592-8659
CA	Stone Mktg Assoc Orange	714-385-5322
CO	Kinetics West Inc Littleton	303-797-0273
CT	Abern Environmental Wallingford	203-265-5821
DE	NCP Inc Newark	302-368-7400
FL	NCP Inc Washington	202-543-7059
DC	Applied Safety Inc Altamonte	
	Sprgs	305-862-0707
GA	Applied Safety Clarkston	404-939-8693
IL	Orr Safety Equip Naperville	312-961-2121
IN	Orr Safety Equip Indpls	317-248-8331
IA	Continental Safety Cedar Rapids	319-364-7757
KY	Orr Safety Equip Louisville	502-774-5791
LA	Bocage Specialty New Orleans	504-366-0006
MI	Argus Supply Roseville	313-774-8900
MN	Continental Safety Inc St Paul	612-222-4751
NE	Continental Safety Omaha	402-331-0642
NJ	NCP Inc Livingston	201-992-5899
NM	Sandia Scienc Sales Albuquerque	505-823-1755
OK	Cascade Assoc Youngstown	216-758-6649
OH	Wayest Safety Tulsa	918-665-2330
OR	Sales Engr Assoc Vancouver WA	206-573-5161
PA	Cascade Assoc Greensburg	412-837-3417
TX	New Pinkerton Assoc Dallas	214-783-0042
WA	Sales Engr Assoc Bellevue	206-883-4999

METROTEK INC 421 N QUAY		
KENNEWICK WA 99336 TWX 152858		
509-735-7550		
C BLANCHARD EMP 15 ENG 1		
OH	D Sandstrom Cincinnati	513-771-3728
PA	M Butera Yardley	215-736-8088
TX	B Makarwick Friendswood	713-482-1570
WA	B Garanson Kennewick	509-735-7550

METUCHEN CAPACITORS INC		
420 PARK AVE PERTH AMBOY		
NJ 08861 TWX 710-998-0892		
201-442-0500		
M GERBINO EMP 25		

MEYER INDUSTRIES BOX 114		
RED WING MN 55066		
715-792-2811		
EMP 350 ENG 15		

MFE INSTRUMENTS CORP 19		
KEEWAYDIN DR SALEM NH 03079		
TWX 953145		
603-893-1921		
M GOMEZ EMP 60 ENG 5 \$5,000-\$10,000K		
AL	Vesco Huntsville	205-881-1494
AK	Harry J Lang & Assoc Anchorage	907-279-5741
CA	Luscombe Eng Co Pasadena	213-684-2000
CA	W I Carson & Assoc San Carlos	415-591-8616
CA	Le Rep Santa Cruz	408-458-0667
CO	Martec Assoc Englewood	303-741-2704
FL	VM2 Mktg Melbourne	305-676-3105
IL	Berndt Assoc Chicago	312-283-0713
IN	Berndt Assoc Carmel	317-844-0114
MA	Andruss-Peskin Corp Natick	617-653-3919
MN	Berndt Assoc Mpls	612-546-2021
NJ	Sci-Rep Inc Pensauken	609-662-5222
NY	Lynn Assoc Buffalo	716-631-0054
OR	Thorson Co NW Beaverton	503-644-5900
VA	Sci-Rep Inc Fairfax	703-385-0600
WA	Thorson Co Bellevue	206-455-9180
WI	Berndt Assoc Milwaukee	414-545-8400
FR	Honeywell Ltd Willowdale ON	416-491-1300

M F ELECTRONICS CORP 10		
RENEWAL PL NEW ROCHELLE		
NY 10801 TWX 710-563-0643		
914-576-6570		
W BRAVERMAN EMP 100 ENG 4		
ADV P3 307		
CA	W W Posey Co Sunnyvale	408-746-0771
CT	Orion Group Southington	203-621-8371
GA	Dixie Tech Sales Norcross	404-447-6833
MA	Orion Group Wakefield	617-245-5220
MI	A P J Assoc Brighton	313-299-6550
MN	Peterson Sales & Assoc Edina	612-944-0030
NY	Loral Sales Hicksville	516-681-8746
NY	Sweetco Assoc Utica	315-733-6721
NY	Sweetco Assoc Rochester	716-225-2383
OH	AP Assoc Fairview Pk	216-734-2567
OR	Controltek Sales Portland	503-641-0877
PA	Elf Sales Prospect Pk	215-534-3340
SC	Electronic Mktg Assoc Greenville	803-233-4637
TX	Matthews & Assoc Dallas	214-248-7881
WA	Controltek Sales Seattle	206-467-0622

DISTRIBUTORS

AZ	Hall Electronics Scottsdale	602-946-9977
CA	Pacesetter Elec Sunnyvale	408-734-5470
CA	Atwater Elec Burbank	714-670-1426
NJ	Mid-Atlantic Corp Ballmawr	609-931-5303
NY	Domino Components Central Islip	516-582-3050
NY	RBD Electronics Bohemia	516-589-7717

M & G LABS INC RT 206 BOX 393B		
BRANCHVILLE NJ 07826		
201-948-6030		
S GASIOR EMP C ENG 2 \$250-\$500K		
FR	Antex Inc Attleboro Ma	617-222-5221

MG ELECTRONICS 32 RANICK RD		
HAUPPAUGE NY 11788		
TWX 64-5113		
516-582-3400		
S GREY EMP 24 ENG 2 OVER \$10,000K		
ADV P3 426		

MHOTRONICS INC 444 LAKE COOK RD		
DEERFIELD IL 60015		
312-948-5600		

MICA CORP 8536 NATIONAL		
BLVD BOX 2578 CULVER CITY		
CA 90231 TWX 664336		
213-837-8100		
J MCLOUGHLIN		
CA Micron Sales Sunnyvale		
408-738-1020		

FR	Intl Elctn Components St	
	Laurent PQ	514-331-8560

MICACRAFT PRODUCTS INC		
49-55 LIBERTY ST NEWARK		
NJ 07102		
201-623-4074		
R BLANCHARD EMP 40 \$1,000-\$2,500K		

MICHIGAN MAGNETICS 203 W 3 RD ST		
VERMONTVILLE MI 49096		
517-726-0590		
T KRUL EMP 100 ENG 2 \$500-\$1,000K		
CA	WME Systems Thousand Oaks	818-706-0845
MA	N S Stachelek Co Kensington CT	203-828-4587
MN	Countryman Assoc Co St Paul	612-645-9151
MO	KKB & Co St Louis MO	314-647-2400
NY	JL Sales Assoc Commack	516-462-5666
PA	Monteiro Assoc Doylestown	215-345-5855
WA	Panoco Bellevue	206-454-2503

MICHIGAN SCIENTIFIC CORP		
730 BELLEVUE AVE MILFORD		
MI 48042		
313-684-0035		
H LARSEN EMP 15 ENG 5 \$250-\$500K		
MA	Andruss-Peskin Corp Natick	617-653-3919
MI	Stress Analysis Services	
	Brighton	313-632-6110
OH	Stress Anal Serv Medina	216-725-7733
PA	Measurements Inc Exton	215-624-0310
FR	Intertechnology Ltd Don Mills ON	416-445-5500

MICOM SYSTEMS INC 4100		
LOS ANGELES AVE SIMI VALLEY		
CA 93063 TWX 910-494-4910		
805-583-8600		
B ATKINSON EMP 2000 ENG 200 OVER \$10,000K		
AL	Col-Ins-Co Huntsville	800-327-6600
AK	Transalaska Data Systems	
	Anchorage	907-522-1776
AZ	BFA Corp Scottsdale	602-994-5400
CA	Moxon Elctns Anaheim	714-937-1700
CA	Moxon Elctns San Jose	408-298-7290
CO	BFA Corp Denver	303-771-7474
FL	Col-Ins-Co Orlando	800-327-6600
GA	Col-Ins-Co Atlanta	800-327-6600
IL	Sea Inc Arlington Hts.	312-255-4820
IN	Sea Inc Carmel	317-846-2591
LA	Col-Ins-Co Baton Rouge	800-327-6600
MD	Technical Sales Assoc Rockville	301-258-7767
MA	Datamart Inc Wellesley	617-235-5520
MI	WKM Assoc Independence	216-524-5930
MN	Sea Inc Maple Grove	612-425-4455
MO	Information Prods Inc	
	Independence	816-252-3700
NE	Information Prods Inc Omaha	402-895-5850
NJ	Data Net Englewood	201-569-2353
NM	BFA Corp Albuquerque	505-292-1212
NY	RG Engrg Rochester	716-424-7492
NC	Col-Ins-Co Raleigh	800-327-6600
OH	WKM Assoc Dayton	513-434-7500
OR	Rush S Drake Assoc Portland	503-224-3145
SC	Col-Ins-Co Greenville	800-327-6600
TN	Col-Ins-Co Knoxville	800-327-6600
TX	Data Aids Assoc Dallas	214-620-1551
UT	BFA Corp SLC	801-265-1777
WA	Rush S Drake Assoc Bellevue	206-454-2383
WI	Sea Inc Brookfield	414-784-9375

MICRO-BUSINESS CONCEPTS 1623 BUENA VISTA ST VENTURA CA 93001 EMP 3 ENG 2 \$100-\$250K	805-653-6660
MICROCAP 11120 ROSELLE ST SAN DIEGO CA 92121 TWX 910-335-1607 D TOSCANO	619-452-9812
MICRO-CIRCUITS CO RT 1 BOX 518 NEW BUFFALO MI 49117 R BRADLEY	616-469-2727
CA Hayden Intl Pasadena	213-577-1910
IL Electro-Mech Sales Co Chicago	312-777-0554
MICRO-COAX COMPONENTS INC BOX E COLLEGEVILLE PA 19426 TWX 510 660-6107 L DEERY EMP 125 ENG 6 OVER \$10,000K	215-489-3700
AZ Fetty/Schoenduve Glendale	602-241-9009
CA Marketek Inc Los Altos	415-941-0882
CA Fetty/Schoenduve El Segundo	313-322-4991
CO Romtech Inc Englewood	303-779-0291
FL Floritronics Winter Pk	305-886-4818
GA Mountain Electro Prods Stone Mountain	404-448-5594
IL Technical Sales Inc Chicago	312-237-7210
IN Denton Marketing Fort Wayne	219-627-5515
KS Electri-Rep Overland Pk	313-649-2168
ME John Murphy Assoc Lynn	617-595-4992
MD Brimberg Sales Wheaton	301-946-2670
MA John Murphy Assoc Seekonk	617-761-7153
MI Fred Gehrke Assoc Southfield	313-559-5363
MN Heil's Temi Bloomington	612-854-2001
MO Electri-Rep St Louis	314-878-8209
NH S White Derry	603-434-8498
NY Stern Assoc Moorestown	609-324-0661
NJ Astorrep Inc Babylon	516-422-2500
NY T-Squared Elctns Syracuse	315-463-8592
OR Eltech Inc Tigard	503-238-0805
TX Vector Sales Richardson	214-234-4291
WA Eltech Inc Bellevue	206-643-4330
FR Braydon Electro Ltd Montreal PQ	514-332-5650
FR Ad Auriema Inc Grand Neck	516-487-0700
DISTRIBUTORS	
MD Brimberg Sales Wheaton	301-946-2670
MI M-Squared Elct Dist Seekonk	617-761-5490
NY ASAP Electronics Mt Vernon	914-699-2727
MICROCOM INC 1400 A PROVIDENCE HWY NORWOOD MA 02062 TWX 710-336-7802 EMP 180	617-762-9310
MICRO COMPONENT TECHNOLOGY INC 3850 N VICTORIA BLVD 64013 ST PAUL MN 55164 J GIBSON EMP 500 ENG 30 OVER \$10,000K	612-482-5100
CA Hisco Anaheim	714-777-2661
CO Arrowhead Sales Corp Arvada	303-423-5556
FL Thomas Assoc Windermere	305-876-4280
IL Hisco Hoffman Estates	312-931-6550
IN Emmtronics Sply & Engrg Indpls	317-899-2333
IA Engineering Prods Assoc Coralville	319-354-5344
MD Powell-Pendergraph Gaithersburg	301-921-4200
MA MPS Assoc Chelmsford	617-937-5420
MN Milt Westlund Assoc Mpls	612-866-5002
NY Watmet Inc Lewiston	716-285-3595
NY Micrel Assoc Chappaqua	914-238-4961
NC South States Mktg Raleigh	919-872-0606
OR Systems Specialists Beaverton	503-641-7771
PA Powell-Pendergraph Willow Grove	215-657-0330
VA Powell-Pendergraph Richmond	804-270-1400
WA Systems Specialists Mukilteo	206-355-0404
MICROCOMPUTER APPLICATIONS BOX E SUISUN CITY CA 94585	707-422-1465
MICROCOMPUTER POWER INC 15875 CONCORD CIRCLE MORGAN HILL CA 95037 R PARKER EMP 50 ENG 3 \$2,500-\$5,000K	408-779-5700
AZ Electronic Devel & Sales Tempe	602-438-1547
CA Sourceconics Sunnyvale	408-773-1931
HI Aloha Assoc Honolulu	808-941-1574
MD Stemler Assoc Baltimore	301-944-8262
MA Richard Purinton Inc Andover	617-475-7055
NY All Metro Components Plainview	516-681-3163
FR Solid State Engineering Montreal PQ	514-481-3313
FR Isla Caribe Electro Sales Santurce PR	809-722-5140
DISTRIBUTORS	
AZ Aspen Power Glendale	602-931-9289
CA Prima Intl Santa Clara	408-496-0722
CA KEA Electronics Hayward	415-887-2900
CA Digital Logic Corp Redwood City	415-361-1019
CA Electronic Control Devices Burlingame	415-348-0791
NM Walker Elect Supply Albuquerque	505-883-2992
MICRO CONTACTS INC AFFIL MOLD-A-MATIC CORP 68 ALPHA PLAZA HICKSVILLE NY 11801 TWX 96-1466 A DIAZ EMP 180 ENG 5 ADV PG 259	516-433-4830
CA R Dahl Montrose	213-245-3817
CO G Lee Broomfield	303-466-2321
CT Wood Sales Milford	203-243-0457

DE D Martin Claymont	302-798-5227
FL Electrocraft Inc Largo	813-530-4749
IL May & Assoc Menomonee Falls	414-251-5131
IN D-M Assoc Indpls	317-842-4424
IA D Gabb Cedar Rapids	319-393-5579
MA Wood Sales Needham Hts	617-444-1601
MN Schlenker & Assoc Wayzata	612-473-5417
OH K Oliver Dayton	513-298-1417
WI D May Menomonee Falls	414-251-5131
FR Isco Minato-Ku Tokyo	403-0471
FR API Bruxelles	376-84-80
FR Tropag W Breske Hamburg Germany	4969 44-1655
MICRO CONTROL CO 7956 MAIN ST NE MINNEAPOLIS MN 55432 TWX 510-100-1103	612-786-8750
R JOHNSON EMP 100 ENG 15	
CA Micro Control Co Fountain Valley	714-775-7452
CA Micro Control Co Morgan Hill	408-779-1003
FL Micro Control Co Winter Park	305-678-5580
TX Scientific Devices Richardson	214-231-8106
MICROCOSM INC 14355 SW ALLEN BLVD BEAVERTON OR 97005 M EPPERSON EMP 30 ENG 10	503-626-6100
MICRODATA CORP 17481 RED HILL AVE IRVINE CA 92705 TWX 910-595-1764 J BONNE EMP 2500 ENG 85 OVER \$10,000K	714-540-6730
MICRO DIGITAL INC 7245 GARDEN GROVE BLVD-M GARDEN GROVE CA 92641 R MOORE EMP 6 ENG 4 \$100-\$250K	714-891-2363
MICRODIMENSIONS INC 4780 BEIDLER RD WILLOUGHBY OH 44094 K ZUPANCIC EMP 15 ENG 10 \$1,000-\$2,500K	216-946-8070
MICROELECTRONIC RELAYS INC 1300 S BEACON ST SAN PEDRO CA 90731 TWX 297340 C STALKER EMP 25 ENG 2 \$500-\$1,000K	213-831-2331
AL Murcota Corp Huntsville	205-539-8476
AZ Relcom Phoenix	602-893-1209
CA Manning Co San Diego	619-565-6097
FL G F Bohman Assoc Apopka	305-886-1882
IL Bierhaus Sales LaGrange Park	312-554-5100
IA Enscop Rep Davenport	319-386-6600
KS Enscop Rep Lenexa	913-541-0481
MD Callas Electronics Baltimore	301-744-7711
MI Norwood Scroggs Co Jackson	517-750-1170
MN General Elctns Corp Burnsville	612-894-1840
MO Enscop Rep Inc Maryland Hts	314-423-3935
NH Bell Controls Nashua	603-882-6984
NJ Silance Tech Sales Red Bank	201-741-9228
NM Relcom Las Cruces	915-775-3683
NY L D Allen Inc Syracuse	315-437-8387
NY L D Allen Inc Fairport	716-377-3530
NC Murcota Corp Winston Salem	919-722-9445
TX Eagle Marketing Richardson	214-238-5383
WI Bierhaus Sales Milwaukee	414-963-0318
DISTRIBUTORS	
NJ Relay Specialties Fairlawn	201-797-3313
MICRO ELECTRONICS CORP 3370 MONTGOMERY DR SANTA CLARA CA 95051	408-988-1101
MICRO ELECTRONIC SYSTEMS INC 3 QUARRY RD BROOKFIELD CT 06804 TWX 969659 J GREEN EMP 8 ENG 2 \$500-\$1,000K ADV PG 432	203-775-1440
MO H F Wilson Florissant	314-291-5555
DISTRIBUTORS	
AZ Claude Michael Tempe	602-894-2188
AZ Scottsdale Tool Phoenix	602-273-7376
AZ Jensen Tools & Alloys Phoenix	602-968-6231
CA OOM-KYL Sunnyvale	408-249-6220
CA Claude Michael Sunnyvale	408-295-7288
CA Macdonald & Co Glendale	818-241-1101
CA Claude Michael El Monte	213-442-7204
CA Claude Michael Irvine	714-566-6500
CA Claude Michael San Diego	619-578-9606
CA WASSCO El Segundo	213-722-8171
CA WASSCO San Diego	619-280-5080
CA RGB Electro-Ind Tool & Sup Santa Clara	408-980-1300
CA Wassco Costa Mesa	714-546-5360
CO Claude Michael Denver	303-427-1800
CT Claude Michael Wallingford	203-265-3822
DC W S Jenks & Son Washington	202-529-6020
FL Howard Assoc Ft Lauderdale	305-771-0858
FL Claude Michael Orlando	305-841-1878
FL Tartan Tool Box Clearwater	813-447-5364
FL Production Cupboard Clearwater	813-447-2581
FL Norm Black Assoc Ft Lauderdale	305-523-0516
IL EMF Co Chicago	312-889-8323
IL Claude Michael Schaumburg	312-490-0755
IL H F Wilson Eng Co Glen Ellyn	312-469-8473
MD Thompson & Cooke Bladensburg	301-864-6380
MD D K Jones Assoc Baltimore	301-752-0577
MA Contact East Burlington	617-272-5051
MA Fitchburg Ind Sup Leominster	617-534-3324
MA Claude Michael Burlington	617-272-8200
MA Hub Material Canton	617-542-7531
MI Production Aids Spring Lake	616-846-2944
MN Claude Michael Plymouth	612-559-2255
MN SERVCO Minnetonka	612-935-8935
MN EPE Corp Manchester	603-669-9181
NJ Tool-Tronics Saddle Brook	201-478-2203
NJ Claude Michael Mt Laurel	215-627-1920
NY Electronic Tool Pleasantville	914-769-8070
NY Irv Morse Sales Brooklyn	212-444-4938
NY Claude Michael Hauppauge	516-273-1515

NY SAI Farmington	516-293-2710
NC Everett Bolte Sales Greensboro	919-294-4141
OH Hughes-Peters Columbus	614-294-5351
OH Claude Michael Dayton	513-898-1100
OH Hughes-Peters Cincinnati	513-351-2000
PA H Mann Inc Huntingdon Val	215-355-7200
PA Techni-Tool Plymouth Mtg	215-825-4990
PA Gil-Tec Broomall	215-543-7200
PA Glove Elect Supply Norristown	215-631-0726
TX Roy E Davis Co Dallas	214-688-0652
TX Claude Michael Dallas	214-233-7650
TX Claude Michael Houston	713-789-6600
TX Specialized Prods Irving	800-527-5018
TX Specialized Prods Houston	713-995-0595
WA Claude Michael Bellevue	206-641-6800
MICROFIELD GRAPHICS INC 8285 SW NIMBUS AVE BEAVERTON OR 97005 TWX 3777991 J LISKEAR EMP 25 ENG 10	503-626-9393
NJ Microfield Graphics Old Bridge	201-251-8479
MICROFLECT CO INC 3575 25TH ST SE SALEM OR 97302 TWX 510-599-0107 J KRANTZ EMP 90 ENG 12 \$5,000-\$10,000K	503-363-9267
MICROGRAFX INC 1820 N GREENVILLE AVE RICHARDSON TX 75081 R GRAYSON EMP 25 ENG 3 \$2,500-\$5,000K	214-234-1269
DISTRIBUTORS	
CA Softeam Compton	800-847-6383
CA Softsell Inglewood	213-412-1700
CA Software Resource San Rafael	415-485-0800
MICRO INSTRUMENT CO 2250 MICRO PL ESCONDIDO CA 92025 TWX 882205 C MARKS EMP 40 ENG 8 \$2,500-\$5,000K	619-746-2010
AL Periphix/Teqspec Huntsville	205-883-6699
AZ R A Mayes Co Phoenix	505-292-2330
CA IFM Milpitas	408-945-5920
CA J Marmon San Marcos	619-744-0801
CO Energy Equip Sales Conifer	303-674-8111
FL Periphix/Teqspec	813-785-2276
GA Periphix/Teqspec Atlanta	404-980-9328
IL Commodorr I Rolling Meadows	312-394-5441
LA Harris Tech Sales Austin	512-331-6373
MA Wayland Engr Sales Natick	617-655-6080
MO Stantec Sales Kansas City	816-431-2211
NJ Power Conversion Englewood Cliffs	201-569-0015
NM R A Mayes Co Albuquerque	505-292-2330
NY Ossman Instruments E Syracuse	315-437-7052
NC Periphix/Teqspec Winston Salem	919-723-8102
TX Harris Tech Sales Allen	214-423-3391
MICRO LAMPS INC BOX 430 BATAVIA IL 60510	312-879-0900
MICRO LOGIC CORP BOX 174 HACKENSACK NJ 07602	201-342-6518
MICROMECH MFG CORP BOX 318 DEPT EBG 300 COX ST ROSELLE NJ 07203 J MEADOW EMP 20 ENG 2 \$250-\$500K ADV PG 246	201-245-0505
CA Don G Jenness Co 541 Taylor Way Belmont	415-592-2730
CA Taylor Methods & Machines 17701 S Avalon Carson	213-515-3866
CT H O Robinson 6 Goodman Rd Madison	203-245-2054
MICRO MEMORY INC 9540 VASSAR AVE CHATSWORTH CA 91311 M JADAON EMP 35 ENG 7 \$5,000-\$10,000K	818-998-0070
MICROMETALS INC 1190 N HAWK CIR ANAHEIM CA 92807 TWX 910-591-1690 K BAKER JR EMP 50 ENG 3 \$2,500-\$5,000K	714-630-7420
MA Anchor Engrg Newton Upper Falls	617-964-6416
NY Kahgan Sales Hempstead	516-538-2300
TX Southwest Elctns Dallas	214-690-9881
MICRO METRICS INC 204 21ST AVE PATERSON NJ 07501 TWX 710-988-5910 T GLADTKE EMP 65 ENG 1 \$1,000-\$2,500K	201-345-9700
MICRO MO ELECTRONICS INC 742 SECOND AVE S ST PETERSBURG FL 33701 TWX 807-982 C CONTOS	813-822-2529
MICRO MODE PRODUCTS INC 1870 JOHN TOWERS AVE EL CAJON CA 92020 TWX 910-331-1673 EMP 45 ENG 6 \$1,000-\$2,500K	619-449-3844
MICRO-MOUNTING DEVICES INC 4092 KEITH DR CAMPBELL CA 95008	408-866-4626
MICRONEL US 2142 F INDUSTRIAL CT VISTA CA 92083 W LINKO EMP 25 ENG 4	619-727-7400
MICRO NETWORKS CO 324 CLARK ST WORCESTER MA 01606 TWX 710-340-0067 J SEGRE EMP 300 ENG 35 OVER \$10,000K	617-852-5400
AZ Sedco Sales Mesa	602-835-6281
CA Micro Networks Santa Ana	714-261-5044
CA Beastronics San Diego	619-693-1111
CO Candal Inc Golden	303-233-0155
FL C M Marketing Inc Largo	813-585-7841

GA	Electronic Mktg Assoc Atlanta	404-448-1215
IL	Beta Technology Sales Glendale Hts.	312-790-9886
KS	Rush & West Assoc Olathe	913-764-2700
MD	Micro Networks Columbia	301-997-3323
MA	John E Boeing Co Lexington	617-862-2500
MI	C B Jensen & Assoc Troy	313-643-0506
MN	Aldridge & Assoc Eden Prairie	612-944-8433
MO	Rush & West Assoc Ballwin	314-394-7271
NY	Nycom Inc East Syracuse	315-437-8343
NC	Electronic Mktg Assoc Raleigh	919-847-8800
OH	Makin & Assoc Cincinnati	513-871-2424
OR	Jas J Backer Co Portland	503-297-8744
PA	Rivco January Inc Norristown	215-631-1414
TX	Micro Networks Dallas	214-991-8566
WA	Jas J Backer Co Seattle	206-285-1300
WI	Beta Technology Sales Mukwonago	414-363-5086
FR	Haltronics/Paltronics Ltd Oakville ON	416-844-2121

MICRON INDUSTRIES CORP
1830 N 32ND AVE STONE PARK
IL 60556 TWX 27-0248 312-345-0788
F 1600 EMP 125 ENG 6 \$5,000-\$10,000K

AR	Control & Power Inc Little Rock	501-661-1737
CA	Sierra Sales Pleasanton	415-663-2250
CA	Signal Enterprises Montrose	213-790-7848
CO	White Sales Englewood	303-694-9555
CT	Northeast Reps Weston	203-866-6030
FL	Hummel Ind Sales Miami	305-651-0196
GA	L3 Inc Marietta	404-956-8148
IL	Bu-Nell Engrg Hoffman Estates	312-843-8600
IN	Geocry Sales Granger	219-272-9626
IN	Electrical Products Cedar Rapids	319-396-2332
KY	Neel Engineering Louisville	502-966-8787
LA	Utility & Indus Sales Mandeville	504-626-9753
MD	Strayton Assoc Mt Airy	301-731-7007
MA	Northeast Reps Hingham	617-849-8700
MI	J M Perry Co Grand Rapids	616-949-0271
MN	N Mercer Mpls	612-933-7111
MO	Katteimann & Co St Louis	314-524-8200
NE	Electrical Products Omaha	402-393-7350
NJ	Topinka Assoc Rochelle Pk	201-368-8330
NY	BKT Assoc Rochester	716-586-5814
NC	Polytech Services Charlotte	704-372-4161
OH	Wait Hammer & Assoc Dayton	513-435-5432
OR	Temco Northwest Hillsboro	503-648-8171
PA	DRV Assoc Pittsburgh	412-247-4816
TN	Control & Power Memphis	901-332-0036
TX	Titan Reps Dallas	214-241-1398
UT	McAllister Co Sandy	801-572-0231
VA	Remco's Cowardin Assoc Richmond	804-266-3457
WA	Temco Bothell	206-821-5434
WI	M J Mercer Brookfield	414-786-6431

DISTRIBUTORS		
CA	Bell Electric Supply Santa Clara	408-727-2355
CA	Electric Control Devices Burlingame	415-348-0791
CA	Graybar Electric Fresno	209-237-4174
CA	Romac Supply Commerce	312-721-5810
CO	Robt L Palmer Englewood	303-922-5585
IL	Revere Electric Chicago	312-738-3836
KS	Lakeland Engineering Kansas City	913-384-0050
MN	Electric Motor Repair Mpls	612-588-4693
NY	Knickerbocker Elec Equip Bohemia	516-567-5411
SC	Shealy Elect Wholesalers Greenville	803-242-6880
TX	Nunn Elec Supply Houston	713-676-0100
TX	Motor Controls Inc Odessa	915-367-2707
VA	Hanover Controls Ashland	804-788-2007
WI	Control Design Supply New Berlin	414-784-1015

MICRO-NOW INSTRUMENT CO INC		
IL	8260 N ELMWOOD ST SKOKIE	
IL	60077 TWX 297214	312-677-4700
C	ARNOW EMP 25 ENG 4 \$1,000-\$2,500K	
CA	McDougall & McLaughlin LA	213-477-8556
CA	Mark V Assoc Box 4459 Mt View	415-964-6275
CO	H Bass Assoc Boulder	303-530-7509
CT	Pat Jenks Assoc Wallingford	203-265-9939
FL	Snow Co Ft Lauderdale	305-563-2448
MA	Pat Jenks Assoc Woburn	617-938-0488
NM	IMEC Albuquerque	910-989-0610
NY	Metro-Mic Melville	516-433-3333
NY	Ossman Assoc E Syracuse	315-437-7052
PA	Robt Meyers Assoc Melrose Pk	215-224-1663
TX	Texas Avionics Dallas	214-368-3566
WA	Datacom Assoc Seattle	206-285-2525

MICRO OHM CORP 1088 HAMILTON RD
DUARTE CA 91010
TWX 910-587-3425 818-357-5377
C SCHWAB EMP 90 ENG 2 \$1,000-\$2,500K
ADV PG 408

AL	Remco Huntsville	205-533-3763
CA	Cerro San Diego	619-450-1754
CA	Cravins Assoc Laguna Hills	714-240-7242
CA	Alpha Omega Group San Jose	408-554-1464
CO	Wm J Purdy Co Denver	303-753-6800
IL	R & R Mktg Assoc Lake Bluff	312-295-6660
MA	Neesco Canton	617-828-4835
NM	Wm J Purdy Co Albuquerque	505-266-7959
OH	Jim Finnegan & Co Cleveland	216-238-5905

OK	Hugh Daly Co Tulsa	918-494-7711
OR	Wm J Purdy Co Beaverton	503-641-9373
TX	Sage Mktg Austin	512-335-0300
FR	Relcom Box 3079 Herzlia	

DISTRIBUTORS		
CA	Myco-Vickers Canoga Pk	213-340-2025
CA	Shelley/Ragon San Diego	714-453-7133
CA	Rose Elect San Jose	800-632-4789
CA	Orange County Components Costa Mesa	714-979-3597
CA	TAW Burbank	213-846-3911
CA	A to Z Electronics Anaheim	714-634-3620
CA	Neumann Electronics San Diego	619-695-3005
IL	Circuit Svc Des Plaines	312-296-4412
MI	Electronic Center Inc Mpls	612-371-5200
NH	Astrum Elect Salem	603-432-3232
NY	Trilech Inc Oceanside	516-678-6222
NY	Darf Elect New Rochelle	914-235-4600
OH	J R Industries Toledo	419-865-1408
PA	Adva Com McKeon	814-476-7774
TX	Industrial Electronics Ft Worth	817-731-7321
UT	Central Utah Elect Sply Provo	801-373-7522
UT	Nytronics Salt Lake City	800-242-7612

MICROPAC INC 905 E WALNUT ST GARLAND TX 75040		
TX	910-860-5186	214-272-3571
B HOLMES EMP 160 ENG 15 \$5,000-\$10,000K		
CA	F & F Assoc Cupertino	408-446-2349
CA	ISDS Santa Ana	714-973-2162
CO	Component Sales Denver	303-759-1666
FL	SES Wargo	313-596-9580
IL	Probe Elec Park Ridge	612-696-2828
MA	Russell Engineering Lowell	617-458-7146
MA	C B Jensen & Assoc Troy	313-643-0506
NY	Mos Assoc Great Neck	516-487-3966
OH	Luebbs Sls Cincinnati	513-871-4211
UT	Component Sales SLG	801-484-4222

MICRO PARTS INC 1051 PIERCE
BUTLER RTE ST PAUL MN 55104
TWX 910-563-3679 612-488-6791
C MONZEL EMP 20
ADV PG 258

MICROPERIPHERAL CORP 2655 152 AVE NE REDMOND WA 98052		
WA	98052-2655	206-881-7544
G PRESTON EMP 17 ENG 3 \$2,500-\$5,000K		
NY	Telaktiv 15 W 26 St NYC	212-532-0354

MICRO PLASTICS INC 20821 DEARBORN ST CHATSWORTH CA 91311		
CA	91311	213-882-0241

MICROPLEX INC 1977 STATE COLLEGE BLVD ANAHEIM CA 92806		
CA	92806	714-979-8833
C SHIELD EMP 25 ENG 3 \$1,000-\$2,500K		

MICRO PLOT SYSTEMS CO 659 H PARK MEADOW RD WESTERVILLE OH 43081 TWX 62186730		
OH	43081	614-882-4786
S BEAN EMP 5 ENG 1 \$250-\$500K		

DISTRIBUTORS		
CA	ITM Walnut Creek	800-334-3404
MICROPOLIS CORP 21123 NORDHOFF ST CHATSWORTH CA 91311		
TX	651486	818-709-3300
C BAFFA EMP 850 OVER \$10,000K		
CA	Micropolis Corp Mt View	415-964-8300
CA	Micropolis Corp Irvine	714-476-0411
FL	Micropolis Corp Altamonte Springs	305-788-2424
MA	Micropolis Corp Woburn	617-933-1665
PA	Micropolis Corp King of Prussia	215-337-2103

DISTRIBUTORS		
CA	Anthem Electronics San Jose	408-295-4200
CA	Anthem Electronics Irvine	717-768-4444
MA	TDI Westwood	617-326-3454
TX	Hall-Mark Electronics Dallas	214-343-5000

MICRO POWER SYSTEMS 3100 ALFRED ST SANTA CLARA CA 95050 TWX 910-338-0154		
CA	95050	408-727-5350
EMP 350 ENG 30 OVER \$10,000K		

MICRORIM INC 3380 146 PL SE BELLEVUE WA 98007		
WA	98007	206-641-6619
EMP 100 OVER \$10,000K		

MICRO SCREEN PRECISION PRODS INC 1106 S HIGH ST SOUTH BEND IN 46618		
IN	46618	219-232-4358
K JENCZEWSKI EMP 3 ENG 4		

AZ	Wadsworth-Bryant Phoenix	602-275-7366
CA	Wadsworth-Bryant Hacienda	415-321-3619
CA	Wadsworth-Bryant Hacienda Hts	213-330-5592
CO	Andrews Assoc Littleton	303-797-1507
CT	Wexler-Court Sales Co Fairfield	203-334-1122
FL	McConnell & Co Lutz	813-977-8206
IL	Crimson Eng Sales Co Glenview	312-470-0024

IN	L R Woodling Co Carmel	317-844-7365
MA	J R Greenlees Assoc Fall River	617-674-9858
MN	Omni-Tec Inc Edina	612-881-4447
NY	Wadsworth Mfg Liverpool	315-652-6865
WA	MARS Bellevue	206-747-3292

MICROSEMI CORP 2830 S FAIRVIEW
SANTA ANA CA 92704
TWX 4720306 714-979-8220
EMP 650 ENG 17 OVER \$10,000K
ADV PGS 162,389

DISTRIBUTORS		
CA	Zeus 1130 Hawk Cir Anaheim	714-632-6880
CA	All American Trans Torrance	213-320-0240
FL	All American Transistor Miami	305-754-5531
NY	ACI Plainview	516-293-6630
NY	Zeus Comps Portchester	914-937-7400
NY	Arow Electronics Melville	516-391-1626

MICROSEMI CORP 8700 E THOMAS RD
SCOTTSDALE AZ 85251 602-941-6300
ADV PGS 162,389

MICROSIM CORP 23175 LA CADENA DR LAGUNA HILLS CA 92653		
CA	92653	714-770-3022
S CARLSON EMP 10 ENG 7		

MICROSONICS INC 60 WINTER ST WEYMOUTH MA 02188		
MA	02188	617-337-4200
F MANNING EMP 150 ENG 13		

AZ	Territorial Marketing Scottsdale	602-994-8665
CA	D & G Inc LA	213-641-7976
CA	Kolm Mktg Assoc Los Altos	415-948-2635
CO	HL Technology Aurora	303-696-7403
FL	TMA Orlando	305-857-3760
IL	Cain Forlaw Mount Prospect	312-253-3578
IN	Cain Forlaw Lancaster	614-654-4800
MD	VPI Inc Baltimore	301-461-2525
MA	O'Sullivan & Murphy Needham	617-449-4141
MO	Er Co Leesburg	314-295-6860
NJ	F & M Tech Sales Glen Gardner	201-832-7216
NY	Metromics Melville	516-271-6597
NY	R & D Assoc Liverpool	315-467-0100
NC		
OH	Cain Forlaw Lancaster	614-654-4800
WA	SJI Seattle	910-444-2212

MICRO SWITCH A HONEYWELL DIV 11 W SPRING ST FREEPORT IL 61032 TWX 910-642-0922		
IL	61032	815-235-6600
EMP 3000		

CA	Micro Switch San Jose	408-977-3008
CA	Micro Switch Orange	714-558-7400
CO	Micro Switch Englewood	303-792-1232
CT	Micro Switch Glastonbury	203-659-0011
GA	Micro Switch Atlanta	404-982-2565
IL	Micro Switch Bensenville	312-860-3968
IA	Micro Switch Bettendorf	319-359-3441
MA	Micro Switch Newton	617-969-0265
MI	Micro Switch Southfield	313-424-3569
MN	Micro Switch Mpls	612-830-3516
MO	Micro Switch St Louis	314-576-2518
NJ	Micro Switch Westfield	201-233-9200
NY	Micro Switch Rochester	716-424-2700
NY	Micro Switch Elmsford	914-592-3200
NC	Micro Switch Charlotte	704-364-4770
OH	Micro Switch Brooklyn Hts	216-459-6075
OH	Micro Switch Dayton	513-237-4075
PA	Micro Switch Valley Forge	215-666-8304
TX	Micro Switch Dallas	214-688-7533
TX	Micro Switch Houston	713-780-6651
WA	Micro Switch Bellevue	206-453-7591
WI	Micro Switch Brookfield	414-784-6260

MICRO/SYS INC 1011 GRAND CENTRAL AVE GLENDALE CA 91201		
TX	170788	818-244-4600
EMP 15 ENG 3		

CA	Access Technologies Placentia	714-996-3917
CA	Zytronix Santa Clara	408-730-1263
FL	T Squared Mktg Maitland	305-628-8911
IL	Computer & Sys Sales Schaumburg	312-397-4440
MA	Bomara Assoc Chelmsford	617-452-2299
MN	D A Case Assoc Mpls	612-869-3700
NY	Marty Andrews Mfrs Rep Fayetteville	315-367-5291
OH	Agnaat Akron	216-273-1211
PA	Wyncote Instrumentation Glenside	215-572-6500
VA	Beacon North Fairfax	703-591-1300
WA	Marra & Assoc Bellevue	206-641-3535
WI	Computer & System Sales Waukesha	414-544-1144

MICROTECH INC 1420 CONCHESTER HWY BOOTHWYN PA 19061		
PA	19061	215-459-3566
H CARTER EMP 95 ENG 2 \$1,000-\$2,500K		

MICRO TECHNICAL INDUSTRIES
23666 BIRTCHE DR B
LAKE FOREST CA 92630
TWX 3719688 714-855-4326
R HERNANDEZ EMP 10 ENG 3 \$250-\$500K
ADV PG 467



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AZ	Burke Hill & Assoc 7619 E Avalon Scottsdale.....	602-945-9116
CA	Craver & Assoc Box 1746 San Juan Capistrano.....	714-240-7242
MA	Research Unitd Box 305 Cohasset Control Tek Sls Ltd 14201.....	617-482-5959
OR	NW Science Pk Dr Portland.....	503-641-0877
PA	Arnold Assoc Box 1012 Jenkintown.....	215-887-7870
TX	Dean Assoc 7862 LeVardura Dallas.....	214-458-1321

MICROTECH SYSTEMS INC	1188 BORDEAUX DR SUNNYVALE CA 94089 TWX 910-339-9325.....	408-745-7000
T GARZY EMP 70 ENG 10 \$5,000-\$10,000K		

MICROTOUCH SYSTEMS INC	10 STATE ST WOBURN MA 01801.....	617-935-0080
R WARNER EMP 42 ENG 8 \$1,000-\$2,500K		

MICROTRAN CO INC 145 E MINEOLA AV BOX 236 VALLEY STREAM NY 11582 TWX 510-225-8412.....	516-561-6050
W BENSCHER EMP 100 ENG 10 \$2,500-\$5,000K ADV PGS 492,502	

AL	Over & Over Inc Huntsville.....	205-837-7105
AZ	Fred Schoeffler Assoc Scottsdale.....	602-948-1004
CA	Cook Enterprises El Monte.....	213-686-2120
CA	Kottmeier Assoc Campbell.....	408-371-8700
CO	Omega Ltd Englewood.....	303-762-1921
FL	Over & Over Inc Brandon.....	813-689-9104
GA	Over & Over Inc Norcross.....	404-449-6205
IL	Chadra-Schilke Assoc Wheaton.....	312-653-8126
IN	R & D Elect Sales Co Noblesville.....	317-849-2026
MD	Burgin-Kreh Assocs Baltimore.....	301-265-8506
MA	MECO Reading.....	617-944-6660
MN	RK Sales Minneapolis.....	612-571-1001
MO	Jim Moore Assoc Hazelwood.....	314-731-2240
NJ	Ed Glass Assoc Englewood Cliffs.....	212-586-8440
NY	CT Cariberg & Assoc Albuquerque.....	505-888-3883
NM	J G Welch Assoc Rochester.....	716-244-1100
NY	J G Welsh Assocs Utica.....	315-736-7821
NC	Over & Over Inc Charlotte.....	704-331-9010
NC	Over & Over Inc Raleigh.....	919-872-2262
OH	John O Olsen Co Cleveland.....	216-662-3454
OH	John O Olsen Co Cincinnati.....	513-922-8885
OR	SPS Electronics Portland.....	503-297-6919
PA	Arnold Assoc Jenkintown.....	215-887-7870
PA	John O Olsen Co Pittsburgh.....	412-279-2550
TX	Howell Sales Grand Prairie.....	214-262-5153
VA	Burgin-Kreh Assocs Lynchburg.....	804-239-2626
WA	SPS Electronics Redmond.....	206-323-4140
FR	H W Brieger Sales Inc Montreal, PQ.....	514-486-5869

DISTRIBUTORS

AL	M G Elec & Equip Birmingham.....	205-328-4525
CA	Master Dist Santa Monica.....	800-421-8153
CA	Pyramid/Fullerton Fullerton.....	714-773-0781
CA	Pyramid Elect Santa Clara.....	408-727-9810
CA	Sierra West Elects Sunnyvale.....	408-747-1188
CO	Shelley-Ragon Inc Denver.....	303-744-3601
FL	Peerless Radio Corp Ft Lauderdale.....	305-973-4141
FL	Electronic Precepts of FL Clearwater.....	813-530-9781
IL	Classic Components Sply Northbrook.....	312-272-9650
IN	Graham Elec Indpls.....	317-634-8202
IA	Deeco Cedar Rapids.....	319-365-7551
MA	Sager Elec Sply Hingham.....	617-749-6700
MN	Bergquist Minneapolis.....	612-835-2322
NJ	Federated Elec Kenilworth.....	201-272-0505
NM	Walker Radio Co Albuquerque.....	505-883-2992
NY	Summit Dist Buffalo.....	716-884-3450
NY	Peerless Radio Lynbrook.....	516-593-2121
NY	Summit Dist Rochester.....	716-334-8110
NY	Help Electronics Johnson City.....	607-729-3528
NC	Southeastern Radio Raleigh.....	919-828-2311
OH	Pattison Sply Cleveland.....	216-441-3000
OH	J A Becker Co Dayton.....	513-226-1341
PA	Barno Radio McKeesport.....	412-751-5971
PA	Shap Elec Philadelphia.....	215-969-3300
TX	Lenet Co Houston.....	713-225-1465
UT	Newark Elec S L C.....	801-486-1048
WA	Priebe Electronics Kirkland.....	206-821-4695
WI	Classic Components Sply New Berlin.....	414-786-5300

MICROVOICE SYSTEMS INC	23362 PERALTA DR LAGUNA HILLS CA 92653.....	714-859-1091
B BAILEY EMP 8 ENG 3 \$2,500-\$5,000K		

MICROWAVE APPLICATIONS GROUP	3030 INDUSTRIAL PKWY SANTA MARIA CA 93455 TWX 910-351-5808.....	805-928-5711
D PRIGGE EMP 92 ENG 10 \$5,000-\$10,000K		

MICROWAVE CONTROL DIV MICON INC	1105 INDUSTRIAL PKWY BRICK NJ 08724 TWX 642-651.....	201-458-3000
R SEPULVEDA EMP 40 ENG 8 \$1,000-\$2,500K ADV PG 306		

MICROWAVE DEVELOPMENT LABS INC	10 MICHIGAN DR NATICK MA 01760 TWX 710-386-6850.....	617-655-0060
R TUCKER EMP 285 ENG 12 OVER \$10,000K		

AZ	Blackhart Assoc Phoenix.....	893-3488
CA	H R Grove San Mateo.....	579-0555
CA	MDL Orange.....	998-0020
CO	Herb Bass Assoc Boulder.....	530-7509
CT	Dage Corp Stamford.....	324-3123
FL	Hi-Co Assoc Winter Springs.....	897-2051
IL	Enasco-Rep Dayton.....	386-6600
KS	Enasco-Rep Wichita.....	683-1070
MA	High Tech Sales Wayland.....	653-3838
MA	Hi-Tech Sales Wayland.....	617-653-3838

MO	Enasco-Rep Maryland Hts.....	423-3935
NY	D B Assoc Syracuse.....	446-0220
NY	Trionic Assoc Great Neck.....	466-2300
NC	M Lader Co Raleigh.....	848-3253
PA	M Lader Co Lafayette Hill.....	825-3177
TX	Texas Microwave Elctns Dallas.....	351-4773
UT	Herb Bass Assoc Bountiful.....	295-7100
VA	Van Guard Eng Sales Alexandria.....	703-788-1660
WA	JJ Assoc Seattle.....	246-6619
FR	Hooker Electronics Montreal PQ.....	487-5151

MICROWAVE DIODE CORP WASHINGTON	ST BOX 250 W STEWARTSTOWN NH 03597 TWX 710-361-8901.....	603-246-3362
D SHEA EMP 12 ENG 2 \$100-\$250K		
CA	Ray Garneau Co Manhattan Beach.....	213-376-5712
MA	Cummings Co 109 Billings Sharon.....	617-828-8370

MICROWAVE ENGINEERING CORP	1429 OSQOOD ST NORTH ANDOVER MA 01845 TWX 710-342-1249.....	617-685-2776
J HERRMAN EMP 83 ENG 14 \$5,000-\$10,000K		
CA	L & M Engrg Inglewood.....	213-674-6850
CA	L & M Engrg San Jose.....	408-292-3220
MO	AME Sales St Louis.....	314-965-1779
NY	CDB Enterprises Huntington.....	516-692-5200
PA	Robert Meyers Assoc Melrose Park.....	215-224-1663
FR	Haltronics Ltd Oakville ON.....	416-844-2121

MICROWAVE SEMICONDUCTOR CORP	100 SCHOOL HOUSE RD SOMERSET NJ 08873 TWX 710-480-4730.....	201-469-3311
C LUMP EMP 400 ENG 10 OVER \$10,000K		
AL	Tech Mktg Assoc Huntsville.....	205-883-7893
AZ	Territ Mktg Scottsdale.....	602-994-8665
CA	G W Swift & Assoc Van Nuys.....	213-989-1133
CA	Peninsula Tech Sales Mtn View.....	415-965-3636
CO	Herb Bass Assoc Boulder.....	303-630-7509
FL	Precision Mktg Svcs Coral Springs.....	305-752-1700

IL	Feller Assoc Northfield.....	312-446-8065
IA	Feller Assoc Cedar Rapids.....	319-364-0566
MD	Neal Deoul Assoc Columbia.....	301-997-4353
MA	Callahan & Tremblay Inc Wakefield.....	617-246-3929
NH	Callahan & Tremblay Inc Merrimack.....	603-424-5700
NY	Metro-Mics Melville.....	516-271-6677
NY	T2 Electronics Syracuse.....	315-463-8592
PA	Scientific Devices North Wales.....	610-699-7707
TX	Dunbar Assoc Dallas.....	214-239-7151
FR	Datron Canada Ltd Ontario.....	416-239-3025

MICTRON INC 6050 PORTER WAY	SARASOTA FL 33582.....	813-371-6659
M WEINSTEIN EMP 35 ENG 4 \$1,000-\$2,500K		

MIDDLEBURG CORP/MIDCO CONNECTORS	95 ALBANY TPK CANTON CT 06019.....	203-693-8361
B BERUBE EMP 20 ENG 5 \$1,000-\$2,500K		
CA	PCA San Jose.....	408-723-2200
CA	Local Sales Placentia.....	714-993-1800
CO	Sage Sales Aurora.....	303-750-3501
FL	DSI Inc Ft Lauderdale.....	305-563-1689
GA	Electramark Inc Norcross.....	404-446-7915
NH	Bell Controls Nashua.....	603-882-6984
NY	Wakeman Norton Assoc Tuxedo Park.....	914-351-5241
PA	Dalbroom Horsham.....	215-441-8380
TX	Milco Marketing Dallas.....	214-783-2716
UT	Sage Sales SLC.....	801-467-5451
WA	Interstate Elec Redmond.....	206-392-5264

DISTRIBUTORS

CA	Mann Southwest Santa Ana.....	714-558-3202
MA	Electronics Packaging Comps Woburn.....	617-935-0400
MA	Impact Sales Canton.....	617-821-1500
NC	Franklin Inc Fayetteville.....	404-461-4026

MID-EASTERN INDUSTRIES INC	100 CAMPUS DR RD1 MT HOLLY NJ 08060.....	609-267-3811
D ELLENBACK EMP 10 ENG 2 \$500-\$1,000K		
CA	Dynasales Co Los Angeles.....	213-268-1175
IL	Marsland Assoc Des Plaines.....	312-298-2620
IN	Marsland & Assoc Indpls.....	317-293-5437
IA	Marsland & Assoc Cedar Rapids.....	319-365-1908
MI	Dietrich & Assoc Warren.....	313-751-4990
MN	Marsland & Assoc Mnpls.....	612-545-4481
MO	Marsland & Assoc St Louis.....	314-991-1399
OH	Dietrich & Assoc Cleveland.....	216-781-1855
PA	Dietrich & Assoc Pittsburgh.....	412-892-2992
WI	Marsland & Assoc New Berlin.....	414-786-6611

MIDGET LOUVER CO 800 MAIN AVE	NORWALK CT 06852.....	203-866-2342
F SCALLON EMP 10 ENG 1		

MIDLAND INTERNATIONAL CORP	1690 N TOPPING KANSAS CITY MO 64120 TWX 43-4045.....	816-241-8500
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MIDLAND-ROSS CORP ELECTRONIC	CONNECTOR DIV ONE ALEWIFE PL CAMBRIDGE MA 02140.....	617-491-5400
TXW 710-320-6399		
K PINELLI EMP 1500 ENG 90		

AL	K & E Assoc Huntsville.....	205-883-9720
AZ	American Marketing Scottsdale.....	602-948-2778
CA	Midland Ross Santa Ana.....	714-540-9256
CA	Midland Ross San Jose.....	408-993-8000
CO	A5 Co Parker.....	303-841-3651
CT	Apex Assoc Wallingford.....	203-269-8401
GA	K & E Assoc Doraville.....	404-448-7025
IL	Richmar Downers Grove.....	312-968-0118
IN	Richmar Indianapolis.....	317-846-6383
KS	Electri-Rep Overland Pk.....	913-649-2168
MD	Robert Electronics Columbia.....	301-995-1900
MA	Apex Assoc Westwood.....	617-326-5042

MI	SAI Marketing Brighton.....	313-227-1776
MN	PWC Bloomington.....	612-831-5999
MO	Electri-Rep St Louis.....	314-878-8209
NV	Untronics Marketing Reno.....	702-825-1978
NJ	Vantage Sales Co Pennsauken.....	609-663-6660
NJ	Dynroep Inc Manville.....	201-685-0131
NC	Midland-Ross Charlotte.....	704-527-8030
OH	Midland-Ross Cincinnati.....	513-489-1983
OR	RTS Electronics Wilsonville.....	503-638-5670
PA	Midland-Ross Pittsburgh.....	412-269-3020
TX	Richmar Elctns Plano.....	910-860-5642
VA	Robert Elctns Richmond.....	804-745-5342
WA	RTS Electronics Vashon.....	206-285-1363
WI	Richmar Butler.....	414-781-1730
FR	Blackwood W Vancouver BC.....	604-926-8000
FR	Midland-Ross Brampton ON.....	416-453-4200
FR	Electronic Tech Sales San Juan PR.....	809-790-1300

MIDLAND ROSS CORP/GENERAL DESIGN	8500 LANKERSHIM BLVD BOX 69 SUN VALLEY CA 91352 TWX 910-498-2700.....	213-875-1260
L LEIGHTON EMP 140 ENG 11 \$5,000-\$10,000K		

MIDLAND-ROSS CORP MIDCOM UNIT	121 AIRPORT DR WATERTOWN SD 57201 TWX 310-565-2244.....	605-886-4385
T SCHUMAN EMP 152 ENG 9 \$5,000-\$10,000K		
For Sales Reps & Distributors SEE Midland-Ross Corp Midtex Division Listings.		

MIDLAND-ROSS CORP MIDTEX DIV	1650 TOWER BLVD BOX 328 NORTH MANKATO MN 56001 TWX 910-555-2244.....	507-625-6521
D PHETPLACE EMP 503 ENG 12 OVER \$10,000K		

AL	Twentieth Century Mktg Huntsville.....	205-533-9281
AZ	EDP & Assoc Scottsdale.....	602-991-6119
AR	ASI Hot Springs.....	501-767-5444
CA	SMI Santa Clara.....	408-986-1610
CA	Santa/Minyard Los Angeles.....	213-879-0770
CO	A 5 Co Parker.....	303-841-3651
FL	Electro Craft Inc Largo.....	813-530-4740
IL	Richmar Electronics Downers Grove.....	312-968-0118
IN	Richmar Electronics Indpls.....	317-846-6383
KS	Thos L Dowell & Assoc St Louis.....	814-849-4234
LA	ASI Metairie.....	504-831-2183
MD	Eagle Sales Corp Huntvalley.....	301-666-3930
MN	Holmgren Assoc.....	612-786-7641
MO	Thos L Dowell & Assoc St Louis.....	314-849-4234
NV	Untronics Reno.....	702-825-1978
NH	Bell Controls Nashua.....	603-882-6984
NJ	Emtec Sales Inc East Hanover.....	201-428-0600
NY	Nymb Components Buffalo.....	716-874-4900
OH	E S I Beachwood.....	216-831-9555
PA	Champion Elect Sales Medford.....	609-983-0932
TX	Richmar Electronics Plano.....	214-867-8224
UT	A5 Co Murray.....	801-261-0722
WA	RTS Inc Vashon.....	206-285-1363

DISTRIBUTORS

AL	Newark Electronics Huntsville.....	205-839-9091
AZ	Hall-Mark Electronics Phoenix.....	602-437-1200
AR	Electra El Dorado.....	501-862-4901
CA	IEC/ Jaco Chatsworth.....	818-998-2200
CA	Master Distributors Santa Monica.....	213-452-1229
CA	Patane-Santa Clara Santa Clara.....	408-966-6151
CA	Control Design Buena Park.....	714-521-5040
CO	Integrated Electronics Denver.....	303-292-6121
FL	Peerless Radio Ft Lauderdale.....	305-973-4141
GA	Prehler Atlanta.....	404-447-5540
ID	Newark Electronics Boise.....	208-342-4311
IL	Prehler Chicago.....	312-384-6100
IL	Advent Rosemont.....	312-297-6200
IL	Lectron Controls Schaumburg.....	312-529-7954
IL	Control Design Supply Genoa.....	815-784-6515
IN	Ralph David Inc Logansport.....	219-722-2200
IN	Crescent Elect Supply South Bend.....	219-233-9406
IA	Deeco Cedar Rapids.....	319-365-7551
IA	Ramco Inc West Des Moines.....	515-225-6933
KS	Newark Electronics Overland Pk.....	913-341-1121
LA	Wholesale Radio Lake Charles.....	318-439-2431
MD	El-Jen Inc Timonium.....	301-252-6576
MA	Greene-Shaw Newton.....	617-969-8900
MA	Control Engrg W Springfield.....	413-781-1330
MI	Advent Elect Farmington Hills.....	313-477-1650
MI	Spemco St Clair Shores.....	313-771-2700
MN	Bergquist Co Mnpls.....	612-835-2322
MN	Control Design Supply Mnpls.....	612-721-1628
MS	Newark Electronics Jackson.....	601-366-5943
MO	Newark Electronics Blue Springs.....	816-228-3170
NE	Newark Electronics Omaha.....	402-392-1221
NH	Newark Electronics Manchester.....	603-624-4330
NJ	Relay Specialties Fair Lawn.....	201-797-3313
NJ	Feldman Bros Paterson.....	201-742-7329
NM	Newark Electronics Albuquerque.....	505-883-6181
NY	Masline Electronics Rochester.....	716-546-5373
NY	Genesee Radio Buffalo.....	716-873-9661

MIDLAND-ROSS CORP NEL UNIT	
357 BELOIT ST BURLINGTON	
WI 53035 TWX 910 278 2450	414-763-3591
B RECKNAGF EMP 200 ENG 6 OVER \$10,000K	
AZ Advanced Comp Mkt Huntsville	205-881-5493
AL A5 Co Tempe	602-968-4923
CA Wm J Purdy Co Burlingame	415-347-7701
CA Lambda /Minyard Inc Los Angeles	213-879-0770
CO A5 Co Parker	303-841-3651
FL HAI Elects Coral Springs	306-752-7520
CA Advanced Comp Mkt Duluth	404-447-5499
IL Richmar Elects Corp Downers Grove	312-968-0118
IN Richmar Elects Corp Indpls	317-846-6383
KS BC Electronic Sales KC	913-342-1211
MD Eastern Comp Sales Corp Timonium	301-561-5811
MI Electronic Salesmaster	
Inc Adrian	517-263-2500
MN Holmgren Assoc Mnpls	612-786-7641
MO BC Elects Sales Bridgeton	314-291-1101
NY Bell Controls Nashua	603-882-6984
NH Lamb Components Buffalo	716-874-4900
NY ERA Inc Commack	516-543-0510
NC Eastern Components Slis Raleigh	919-787-3416
OH Electronic Salesmaster Beechwood	216-831-9555
OR RTS Inc Wilsonville	503-638-5670
PA Eastern Components Slis	
W Conshohocken	215-825-8610
RI Bell Controls Charleston	401-364-3577
TX Richmar Elects Corp Plano	214-867-8224
UT A5 Co SLC	801-483-1034
VA Eastern Components Slis Annadale	206-265-0723
WA RTS Inc Vashon	206-285-1363
WI Richmar Elects Corp Butler	414-781-1730
FR Midland-Ross Corp Brampton ON	416-453-4200
FR Electronic Tech Sales San Juan PR	809-720-1300

DISTRIBUTORS

CA Tim-Co Sales Canoga Pk	818-992-5040
CA Cornett Elect Mt View	415-969-5420
CA Mock III Sales Co San Diego	619-560-0515
CA Pacesetter Elect Anaheim	714-779-5855
CA All American Torrance	213-320-0240
CO Diplomat Wheat Ridge	303-422-9229
CO Integrated Electronics Denver	303-292-6121
CT Diplomat Danbury	203-797-9674
FL All American Miami	305-621-8282
GA Prehler Elect Atlanta	404-447-5540
Mar-Con Assoc Skokie	312-675-6450
IL Advent Elect Rosemont	312-297-6200
IL Classic Comp Supply Northbrook	312-272-9650
IL Prehler Inc Chicago	312-384-6100
IN Advent Elect Indpls	317-872-4910
IN Classic Component Spy Indpls	317-872-4777
IA Advent Elect Cedar Rapids	319-363-0221
Bergquist Co Cedar Rapids	319-366-8733
MD Treko Sales Beltsville	301-792-0112
MD All American Rockville	301-251-1205
MA A W Mayer Billerica	617-229-2255
Advent Elect Farmington Hills	313-477-1650
MN Bergquist Mnpls	612-835-2322
MN Diplomat Plymouth	612-559-2500
NY Masline Elect Rochester	716-546-5373
NY Dove Elect Comps Stony Brook	516-689-7373
NY Genesis Radio Inc Buffalo	716-873-9661
OH Argent Electra Englewood	513-836-8633
OH Repco Elec Solon	513-428-8900
OH Schuster Elec Co Cincinnati	513-489-1400
OK Altair Co Tulsa	918-252-5781
ALder-Tronics Pittsburgh	412-821-5565
TX Diplomat Dallas	214-960-1888
TX Altair Co Richardson	214-231-5166
UT Diplomat Salt Lake City	801-466-1134
WI Taylor Elec Co Mequon	414-241-4321
WI Classic Comp Supply New Berlin	414-786-5300

MID-WEST AUTOMATION SYSTEMS INC

390 HOLBROOK DR WHEELING	
IL 60090 TWX 910-651-0072	312-541-3570
P AKOSTA EMP 200 ENG 40 OVER \$10,000K	
CA Production Technology Santa Ana	408-748-1149
CO Production Equip Sales Littleton	303-795-5022
CT Rollinson Assoc Pomfret Centre	203-928-5147
GA Industrial Robot Sales Atlanta	404-451-0901
IN Ed Helm Inc South Bend	219-291-3705
MN MacNamara Assoc Mound	612-472-4919
NJ Uniflex Systems Keyport	201-739-3707
OR Shaw Tech Sales Lake Oswego	503-635-8111
PA Wilson M Vogts Assoc Springfield	215-328-2665

MIDWEST COMPONENTS INC BOX 787

MUSKEGON MI 49443	
TXW 510-394-4130	616-777-2602
J SALLING EMP 100 ENG 10 \$5,000-\$10,000K	

MIDWEST ELECTRIC PRODUCTS INC

BOX 910 T MANKATO MN 56001	
TXW 29-0579	507-625-4414
J EWERT	

MIDWEST SINTERED PRODUCTS CORP

13805 S HALSTED ST RIVERDALE	
IL 60627	312-849-5290
W STOCKDALE EMP 58 ENG 2 \$2,500-\$5,000K	
IL D L Moline Arlington Hts	312-392-1459
WI D Murphy Brookfield	414-786-0300

MID-WEST TRANSFORMER CO

333 N BARRON BLVD GRAYSLAKE	
IL 60030 TWX 20-6693	312-223-8686
R BERO EMP 480 ENG 5 OVER \$10,000K	

AL Alpha Mktg Huntsville	205-533-0766
AZ Clemick & Assoc Tucson	602-749-4003
CA i2 Inc Santa Clara	408-988-3400
CA In Sync Tronics Orange	714-639-5790
CA James Ind West San Jose	408-971-6016
FL R K Welter Inc Eustis	904-357-3011
GA Alpha Mktg Tucker	404-491-9430
IL James Industries Inverness	312-358-8000

IN R G Frederick Co Ft Wayne	219-744-0641
LA Design Mktg of LA Hammond	504-294-3076
MA Wm Valle Assoc Newton Hghinds	617-965-0002
MN Highland Elctns Golden Valley	612-546-2123
MS Herron Assoc Meridian	601-483-9306
NH Mark-Rep Assocs Plaistow	603-968-4923
NJ N Krouse Cherry Hill	609-424-3543
NY Quality Components Buffalo	716-839-4170
NY Quality Components Manlius	513-682-8885
OH D Joseph Sales & Assoc Dayton	513-454-0287
OR Northwest Mktg Portland	503-297-2581
PA Metz-Benham Assoc Wynnewood	215-896-7300
TN Alpha Mktg Oakridge	615-482-4681
TX K & H Sales Co Austin	512-258-8841
UT Aspen/Sage Assocs SLC	801-467-2401
WA Northwest Mktg Bellevue	206-455-5846

MILL ELECTRONICS INC 1 MILL ST

DRACUT MA 01826 TWX 4998157	617-453-8000
M RYAN EMP 25 ENG 4 \$1,000-\$2,500K	

AZ Sun West Tempe	602-838-7586
CA Galaxie Sales Intl Anaheim	213-690-3384
FL R S Cushing Longboat Key	813-383-1770
IL Ed Joyner & Co Wheeling	312-520-1200
LA HBT Assoc Covington	504-892-4045
MA Bennetron Billerica	617-663-7017
MI Doral Sales Co Southfield	313-352-1667
MO R R Burton & Assoc Grandview	816-763-5385
NJ John Craft Entprs Marmora	609-390-0094
NY Bytec Reps Wantagh	516-781-7400
TX Lelko-Paulsen Sales Dallas	214-680-9588
VA Tytronics Reston	703-471-0440
FR Ecom GMB Inc Pte Claire PQ	514-697-4556
FR Surel Intl Medway MA	617-533-2041

MILFORD RIVET & MACHINE CO

857 BRIDGEPORT AVE MILFORD	
CT 06460 TWX 710-462-0538	203-878-4631
L SAVAGE EMP 400 ENG 10	

MILLER COMMUNICATIONS SYSTEMS LTD

300 LEGGET DR KANATA	
ON K2K 1Y5 TWX 053-4164	613-592-3020
R ACOURI EMP 400 ENG 30 \$2,500-\$5,000K	

MILLER CO INC J K 80 WABASH AVE

PITTSBURGH PA 15220	412-922-5070
J MILLER EMP 35 ENG 1 \$1,000-\$2,500K	

MILLER CO L C 717 MONTEREY

PASS RD MONTEREY PARK	
CA 91754	213-268-3611
T NAIMY EMP 48 ENG 2 \$1,000-\$2,500K	

MILLER CO INC WA MINGO LOOP

OOQUOSSO ME 04964	207-864-3344
R HUNGER EMP 15 ENG 1 \$500-\$1,000K	
ADV PG 79	

MILLER ELEC CO DIV CAROL CABLE CO

BOX 540 PAWTUCKET RI 02862	
TXW 927750	401-728-7000
J PIMENTAL EMP 1000 ENG 4	

AL Tenn Tech Sales Decatur	205-350-0630
CA Universal Components LA	213-641-4255
CA Powermatic Assoc Oakland	415-635-6825
CO Romtech Inc Englewood	303-779-0291
FL Hutto Hawkins Peregy Maitland	305-831-2474
IL Midwest Warehouse Corp	
Schiller Park	312-678-6663
MO Electronic Component Sales Mnpls	612-933-2594
MO Mertens Co St Louis	314-993-6600
NJ Damin Sales Englewood	201-871-0200
NY Apex Assoc Rochester	716-254-6050
NC Anthom Inc Matthews	704-847-7363
OH Jubell Assoc Cleveland	216-831-0364
OR Pacific Electric Sales	
Co Portland	503-235-3456
RI Gale Sales Ashton	401-333-2270

MILLER INDUSTRIES INC R A

INDUSTRIAL AIRPARK GRAND	
HAVEN MI 49417 TWX 228440-01	616-842-9450
R MILLER EMP 55 ENG 2 \$5,000-\$10,000K	

MILLER-STEPHENSON CHEMICAL CO INC

GEO WASHINGTON HWY DANBURY	
CT 06810	203-743-4447
F BODNAR	
ADV PG 93	

CA Miller-Stephenson Chemical	
Sylmar	818-896-4714
IL Miller-Stephenson Chemical	
Morton Grove	312-966-2022
FR Miller-Stephenson Chemical	
Rexdale Ont	416-675-6090
FR Tekelec Airtronc Seures France	534-75-35
FR Detakta Hamburg	511-50-31
FR D Fraser & Co Uddingston Scot	813476
FR Hoek-Loos Schiedam	010-731122
FR Aldo Garzanti SAS Milano	654-621
FR EPT Volketswil	01-784-25-95
FR Ultrasonidos Valencia	96/361 36 58

MILLER TECHNOLOGY INC 647

N SANTA CRUZ AVE LOS GATOS	
CA 95030	408-395-2032

MILLIFLECT INC 7752 ENTERPRISE

DR NEWARK CA 94560 TWX 466465	415-791-5188
D KOJANE EMP 26 ENG 2 \$1,000-\$2,500K	

MILLIVAC INSTRUMENTS INC

2818 CURRY RD BOX 997	
SCHENECTADY NY 12301	518-355-8300
I METZGER EMP 30 ENG 4 \$500-\$1,000K	

CA J B Meltzer San Diego	281-0628
NY Martin P Andrews Fayetteville	637-5291
PA S & S Div Kinetics Media	565-5388
TX Scientific Sales Co Richardson	231-6542

FR Tradeport Electronics Grp	
Downtown CA	736-0866

MILL-MAX MFG CO 190 PINE

HOLLOW RD BOX 300 OYSTER BAY	
NY 11771 TWX 510-221-1820	516-922-6000
R OLSEN EMP 150 ENG 5 OVER \$10,000K	
ADV PGS 125,463	

CA Patrick M Conahan Assoc	
Dana Point	714-493-9822
CA Patrick M Conahan Assoc San Jose	408-723-2200
CO R G Enterprises Boulder	303-447-9211
FL R Rep Co Box 1545 Melbourne	
IL Houlihan Sales Co Palatine	312-705-0400
IN A H Ritz & Assoc Indpls	317-842-3040
MN Electro-Tech Assoc Edina Sta Mnpls	
NY John Schrader Assoc South Huntington	516-271-7753
NC Cardinal Sales Matthews	704-847-0248
TX Milco Marketing Houston	713-723-5003
TX Milco Marketing Dallas	214-783-2716
WA Comtec 1715 114 Av S E Bellevue	

DISTRIBUTORS

AZ Acacia Sales Tempe	602-894-2874
AZ Electronics Hardware Ltd Tempe	602-967-1691
CA Allkay Electronics Chatsworth	818-998-6771
CA Electronic Hardware North Hollywood	818-982-6100
CA MS Inserts & Fasteners Milpitas	408-946-6565
CA Gourmet Electronics Campbell	408-374-0552
CA Alatec Products North Hollywood	818-764-5500
CA Alatec Products Fremont	415-657-7701
CA Alatec Products San Francisco	
FL Action Electronics Palm Bay	305-725-4920
FL Action Electronics Melbourne	305-242-3456
MA Electronic Packaging Components	
Woburn	617-935-0400
MA Rush Industries Winchester	617-729-5800
MA EPC Electronics Canton	617-821-2111
MI Advent Electronics Farmington Hills	313-477-1650
MN Aero-Space Computer Supplies Mnpls	612-884-4725
NY QAR Industrial Elctn Sales Mt Vernon	914-699-2224
NY Tower Fasteners Plainview	516-349-7670
OR Component Resources Beaverton	503-641-8488
TX Electronic Packaging Components Houston	713-447-5800
TX J V Electronics Houston	713-447-5800
FR Rush Electronics Ltd Mississauga	416-677-7280

MILLS RESISTOR CO 3840

CATALINA ST LOS ALAMITOS	
CA 90720	213-598-2454
S KISTNER EMP 50 ENG 2 \$500-\$1,000K	
CA Frauman Assoc Los Altos	415-941-0660
KS James Dick Co Leawood	913-649-0805
MA Dynasel Assoc Waltham	617-890-6777
OR SPS Electronics Portland	503-285-0214
TX Ev Smith Assoc Houston	713-649-5756
WA SPS Electronics Seattle	206-323-4140

MILTOPE CORP 1770 WALT

WHITMAN RD MELVILLE NY 11747	
TXW 510-221-1803	516-420-0200
W JENNINGS EMP 490 ENG 100 OVER \$10,000K	
AL High Tech Sales Huntsville	205-883-5749
California West El Toro/Camarillo	213-822-8902
CO Westek Denver	303-237-5001
FL Edw Gray St Petersburg	813-344-3804
MD D Baby Annapolis	301-757-4196
MA W Weeton Needham	617-444-1012
MN Digital Systems Corp Bloomington	612-884-2422
MO Dytronix Inc Raytown	816-356-6340
OH SKM Ashby Assoc Dayton	513-252-5617
TX D Eaton Plano	214-423-7370
WA Miltope Northwest Seattle	206-321-1080

MILWAUKEE RESISTOR CORP

700 W VIRGINIA ST MILWAUKEE	
WI 53204	414-271-9900
W POLLOCK EMP 90 ENG 3	

MINATO ELECTRONICS INC

4105 MINAMI YAMADA-CHO	
KOKOKU-KU, YOKOHAMA JAPAN	
TXW 3822-244	045-591-5611
Y SHIRAI EMP 350 ENG 200 OVER \$10,000K	

DISTRIBUTORS

CA Okura & Co America Inc LA	213-627-4680
CA Okura & Co San Jose	408-279-2840

MINCO PRODUCTS INC 7300

COMMERCE LANE MINNEAPOLIS	
MN 55432 TWX 910-576-2848	612-571-3121
L HANSON EMP 420 ENG 25 OVER \$10,000K	
AL Instrumentation Sales Huntsville	205-881-1750
AZ Heath & Assoc Scottsdale	602-945-9546
CA Pentagon Co S Pasadena	818-799-1566
CA Pentagon North Mtn View	415-901-3610
CO Hi Technology Assoc Aurora	303-696-7403
FL Instrumentation Sales Longwood	305-321-1750
IL Thermo/Cense Mundelein	312-949-8070
IN J & B Eng Sales Co Ft Wayne	219-483-2813
LA Currier & Roser New Orleans	504-734-1147
MD Magyar & Assoc Wheaton	301-871-8833
MA Magyar & Assoc Needham Hts	617-444-9095
MI Jay Mktg Assoc Plymouth	313-459-1200
NY TAC Sales Fairport	716-425-1070
NY R D MacGrath Inc Massapequa	516-798-0400
NC B A Robinson Co Charlotte	704-372-7702
OH Allen Nace Co Inc Englewood	513-836-0931
OR McLaren Inc Portland	503-297-2248
PA Magyar & Assoc Phila	215-635-5211
TX MGR Electronics Dallas	214-238-5246
TX Wessco Cypress	713-469-7814
VT Magyar & Assoc Bennington	802-442-5858

WA McLaren Inc Bellevue 206-454-3400
FR Mod-Tronic Inst Ltd Brampton ON 416-457-6322
FR Quontime Prods Ltd Montreal PQ 514-937-3914

MINDRUM PRECISION PRODUCTS
10000 4TH ST RANCHO CULAMONGA
CA 91730 714-989-1728
A NELSON EMP 75 ENG 3 \$1,000-\$2,500K

MINELCO INC SUB TALLEY INDUSTRIES
135 S MAIN ST BOX 459
THOMASTON CT 06787
TWX 710-475-1091 203-283-8261
M TANSKI EMP 100 ENG 4

AL L & D Inc Huntsville 205-837-1489
CA Liaison Inc Hayward 415-783-1131
CA M W Reidel & Co Alhambra 213-283-7694
CO West High-Tech JV Denver 303-773-8180
FL Delmac Sales Orlando 305-898-4688
IL Midwest Meridian Elk Grove Vlg 312-640-9540
IA J & R Sales Eng Cedar Rapids 319-393-2232
MA F J S Assoc Winchester 617-729-3135
MN TW Sales Mpls 612-638-1770
MO Midwest Meridian St Louis 314-878-4441
NJ Comp-Tech Sales Hasbrouck Hts 201-288-7400
NY J R Costello Syracuse 315-472-0322
NY Comp-Tech Sales New Hyde Park 516-593-2628
NC L & D Inc Greenboro 919-292-3201
OH Jim Finnegan & Co Cleveland 216-238-5905
PA McCoy Inc Medford 609-953-0770
TX Midwest Meridian Fort Worth 817-654-2132

MINE SAFETY APPLIANCES CO
600 PENN CTR BLVD BOX 426
PITTSBURGH PA 15230 412-273-5175
G ZUBER

MINI-CIRCUITS LAB POB 166
BROOKLYN NY 11235 TWX 620156 718-934-4500

AZ Beacon Elctns Huntsville 205-881-5031
AL Thorson Desert States Scottsdale 602-998-2444
AR Beacon Elctns Little Rock 501-224-5449
CA Crown Electronics No Hollywood 213-877-3550
CA Cain-White & Co Los Altos 415-948-6533
CO Thorson Rocky Mtn Englewood 303-779-0666
FL Beacon Elctns Melbourne 305-724-8010
FL Beacon Elctns Maitland 305-647-3498
FL Beacon Elctns Clearwater 813-796-2378
GA Beacon Elctns Atlanta 404-256-9640
IL Cain Forlaw Co Mt Prospect 312-253-3578
MD M Lader & Co Columbia 301-730-1550
MA Scientific Devices Waltham 617-890-2252
NM Thorson Desert States Albuq 505-293-8555
NY Robtrn Skaneateles 315-685-5731
NY Spectrum Sales Inc Hartsdale 914-472-8600
NC Beacon Elctns Raleigh 919-787-0330
OH Cain Forlaw Co Lancaster 614-654-4800
PA M Lader Co Lafayette Hill 215-825-3177
TX Cain & Co Dallas 214-247-3901
UT Thorson Rocky Mtn W Valley City 801-973-7969
FR B V Technische Handel-Hattum Holl. 0 5206-41214

FR Dale Elect Ltd Camberely Surrey GB 0252 835094
FR Datamatik AS Oslo Nor 02 301730
FR Densho Kaisha Ltd Tokyo Jap 03 436-0041
FR Gaekwar Enterprise Bombay India 4943459
FR General Elect Svcs Pty Pymble Australia 498-4144
FR Industrial Elect GMBH Frankfurt/Main Germ 011-49-69
FR SCIE-DIMES Igny France 6 941-82-82
FR DC Electronics Adelaide So Aust 223-6946
FR Sistrer Elettronica Roma Italy 06-82-78-551
FR Amilton S A Madrid Spain 247-93-13

DISTRIBUTORS
AL Component Dist Huntsville 205-883-7501
AZ Spirit Elect Scottsdale 602-998-2444
AR Component Dist Little Rock 501-227-6278
CA Crown Elect N Hollywood 213-877-3550
CA Pen Stock Los Altos 415-948-6552
DC MLC Dists Columbia 202-296-2497
FL Component Dist Ft Lauderdale 305-971-4950
GA Component Dist Norcross 404-441-3320
IL CFC Dist Mt Prospect 312-253-3578
MD MLC Dists Columbia 202-296-2497
NC Component Dist Raleigh 919-834-9465
NC MLC Dist Raleigh 919-848-3253
PA MLC Dist Ltd Lafayette Hill 215-825-3177
TX Cdin Co Dist Dallas 214-243-4683
TX Component Dist Dallas 214-644-0373

MINIGRIP INC ROUTE 303
ORANGEBURG NY 10962
TWX 646-861 914-359-3100
H ZIVKOVIC EMP 300 ENG 10

MINI-MAGNETICS CO INC 1100
FULTON PL FREMONT CA 94539 415-490-7500
W FINE EMP 45 ENG 2 \$1,000-\$2,500K

MINI-SYSTEMS INC 20 DAVID RD
NO ATTLEBORO MA 02761
TWX 710-348-0564 617-695-0203
D MAMBERT EMP 200 ENG 9 \$2,500-\$5,000K

MINITEC CORP 158 W CLINTON ST
DOVER NJ 07801 201-989-1426
H PECK EMP 10 ENG 2 \$250-\$500K

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TX 78769-2963 512-834-1800

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CA Richey/Western Elect Sun Valley 213-768-3800
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CA Ratel Elect Irvine 714-768-0855
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CA Mulvin & Co La Crescenta 213-245-1081
CT JV Elect East Haven 203-469-2321
FL Tech Sales Inc St Petersburg 813-577-2779
GA A C Equip Co Atlanta 404-451-2747
IL Magnuson Elec Mt Prospect 312-956-0700
IL Prehler Inc Chicago 312-384-6100
IL El/Mech Inc Niles 800-647-7788
MA Impact Sales Co Canter 617-821-1500
MA Vector Sales Inc Allston 617-787-2790
MI RM Mich Grand Rapids 616-531-9300
MN Ragon Elec St Paul 612-642-2828
MO Ltronix St Charles 314-946-6424
NJ J-Mar Elect Clifton 201-772-4000
NJ Meridian Supply Co Union 201-Tex-Tool
NM Alliance Electronics Albuquerque 505-292-3360
NY Deanco Ithaca 607-257-4444
NY Addem Dist Farmingdale 516-752-9303
NY Zenith Wire & Cable Corp Ronkonoma 516-585-1444
OH Electronics Mktg Columbus 614-299-4161
OR Moore Elec Lake Oswego 503-684-3100
PA Powell Elec Phila 215-365-1900
TX Norvell Elec Dallas 214-233-0020
TX Kent Elect Houston 713-780-7770
TX D & K Sales Inc Dallas 214-247-0138
TX Prime Distributing Co Allen 214-231-0170
WA Zepher Elec Sales Seattle 206-241-1980
WA Blair Hirsh Co Lynnwood 206-774-8151

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2111 W BRAKER LA BLD
501 BOX 2963 AUSTIN
TX 78769-2963 800-328-1368
M MARTIN
ADV PG 429

MINOR RUBBER CO INC 40

ACKERMAN ST BLOOMFIELD
NJ 07003 TWX 13-8817 201-338-6800
S MISSING EMP 70 ENG 6 OVER \$10,000K
CA Minor Rubber Co Santa Fe Springs 213-946-6686
IL Minor Rubber Co Antioch 618-800-2235
TX Minor Rubber Co Carrollton 214-233-8976

MISCO/MINNEAPOLIS SPEAKER CO
3806 GRAND AVE MINNEAPOLIS
MN 55409 612-825-1010
D DIGIE

CA Mike Roth Sales Irvine 250-0722
FL World Wide Elctns Pembroke Pines 966-6622
IL Sunrise Sales Co Romeoville 886-6034
IA M-S-B & Assoc 260 7 Av Marion 377-6261
KS M-S-B & Assoc Shawnee Mission 432-2131
MD PAR-Nell Sales Co Columbia 992-5454
MA W A Hendrickson Co No Scituate 545-0652
MO M-S-B & Assoc Hazelwood 895-4700
NJ Austin Assoc Willingsboro 871-9290
OH John O Olsen Co Cincinnati 574-7711
TX Electronic Product Reps Arlington 467-0377

MITCHELL CO INC E C BOX 607
MIDDLETON MA 01949 617-774-1191
E MITCHELL EMP 7

MITCHELL-HUGHES CO 7534
ATOLL AVE NORTH HOLLYWOOD
CA 91605 818-983-2535
EMP 2 \$100-\$250K

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BOX 13320-360 LEGGET DR
KANATA ON K2K1X5
TWX 610-562-8529 613-592-5630
H TWEDDLE EMP 603 ENG 107

AL Southeastern Marketing 205-882-1633
AZ Bill Earl Assoc 602-994-3813
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CA Mitel Semiconductor 408-249-2111
CA Pro Associates 408-358-3861
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CA El Dorado Sales 619-565-9112
CA El Dorado Sales 714-954-0285
CT Access Systems 203-795-0201
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FL Dyne-A-Mark 305-771-6501
FL Dyne-A-Mark 813-441-4702
FL Dyne-A-Mark 305-831-2097
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IL Mitel Semiconductor 312-655-3930
IL KMA Sales Co 312-398-5300
IN Scott Electronics Inc 317-897-9976
IN Scott Electronics Inc 219-484-7865
KS R W Kunz Assoc 913-648-3335
MD Micro Comp Inc 301-247-0400
MI RC Merchant & Co 313-476-4600
MI RC Merchant & Co 616-983-7378
MN TW Electronics 612-636-1770
MO R W Kunz Assoc 314-966-4977
NH Access Systems 603-888-8160
NJ Mesa Technical Assoc 609-429-9531
NY LRS Assoc 914-268-4435
NY Gen Tech Electronics 315-451-3480
NC A B Andress & Co 919-544-1762
OH Scott Electronics Inc 513-791-2513
OH Scott Electronics Inc 513-294-0539
OH Scott Electronics Inc 614-863-1281
OH Scott Electronics Inc 216-473-5050
OR Quadra Sales Corp 503-626-7815
PA Scott Electronics Inc 412-963-6116
TX Logic 1 512-459-1297
TX Logic 1 713-981-0233
TX Logic 1 214-234-0765

WA Quadra Sales Corp 206-833-3550
WI KMA Sales Co 414-259-1777
FR Deskin Sales, Alberta 403-466-2106
FR Deskin Sales, Ontario 613-729-1099
FR Deskin Sales, Ontario 416-475-1412
FR Deskin Sales, British Columbia 604-273-9483
FR Deskin Sales, Manitoba 0 ZENITH 06003
FR Deskin Sales, Quebec 514-331-2860
FR Deskin Sales Ontario 519-743-1702
FR Deskin Sales Alberta 800-661-1938
FR Deskin Sales - Truro Nova Scotia 902-893-9322

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AZ Anthem Electronics Tempe 602-244-6681
AZ Time Electronics Tempe 602-967-2070
CA Pacesetter Electronics Sunnyvale 408-734-5470
CA Anthem Electronic Chatsworth 213-700-1000
CA Anthem Electronic San Jose 408-946-8000
CA Time Electronics Torrance 213-230-0880
CA Time Electronics Sunnyvale 408-734-9888
CO Anthem Electronic Englewood 303-790-4500
CO A C T/Diplomat Wheatridge 303-422-9229
CO Time Electronics Englewood 303-799-8851
CT J V Electronics East Haven 203-469-2321
CT Time Electronics Cheshire 203-271-2300
FL Time Electronics Ft Lauderdale 305-974-4800
FL All Amer Transistor Miami 305-754-5531
GA Quality Components Norcross 404-449-9508
GA Time Electronics Norcross 404-448-4445
IL Classic Components Northbrook 312-272-9650
IL Milgray Bensenville 312-350-0490
IN Graham Electronics Indpls 317-634-8205
IN Classic Components Indpls 317-872-4777
KS LCOMP Inc Wichita 316-265-5100
MD Micro Parts Inc Baltimore 301-247-1511
MD Milgray Columbia 301-621-6198
MA R C Components Wilmington 617-657-4311
MA Time Electronics Peabody 617-596-7778
MA Industrial Components Mpls 612-831-2666
MN Time Electronics Bloomington 612-944-9192
MO LCOMP Inc Maryland Hts 314-291-6200
MO Time Electronics St Louis 314-391-6444
NJ Mid Atlantic Bellmawr 609-931-5303
NJ Milgray Marlton 609-983-5010
NM Sterling Electronics Albuquerque 505-884-1900
NY ACI Electronics Plainville 516-293-6630
NY Add Electronics East Syracuse 315-437-0300
NY Milgray Farmingdale 516-391-3000
NY Time Electronics Hauppauge 516-273-0100
NY Time Electronics East Syracuse 315-432-0355
OH CAM/RPC Electronics Cleveland 216-461-4700
OK Quality Components Inc Tulsa 918-664-8812
OR Anthem Electronics Oswego 503-684-2661
OR Time Electronics Portland 503-684-3780
PA CAM/RPC Elect Pittsburgh 412-782-3777
PA Time Electronics King of Prussia 215-337-0900
TX Quality Components Inc Austin 512-835-0220
TX Quality Components Sugarland 713-491-2255
TX Time Electronics Carrollton 214-241-7411
TX Time Electronics Houston 713-530-0800
UT A C T/Diplomat SLC 801-486-4134
UT Anthem Electronics SLC 801-973-8555
WA Paccom Inc Redmond 206-883-9200
WA Anthem Electronic Redmond 206-881-0850
WA Time Electronics Bellevue 206-641-3640
WI Classic Components New Berlin 414-786-5300
WI Taylor Electric Co Mequon 414-241-4321
FR Canadian Gen Elec Co Ltd Toronto ON 416-530-2986
FR R-A-E Indus Elec Ltd Burnaby BC 604-291-8866
FR R-A-E Indus Elec Ltd Edmonton AB 403-451-4001

FR Zentronics Calgary AB 403-272-1021
FR Zentronics Richmond BC 604-273-5575
FR Zentronics Winnipeg MB 204-775-8661
FR Zentronics Ottawa ON 613-226-8840
FR Zentronics Waterloo ON 519-884-5707
FR Zentronics St Laurent PQ 514-735-5361
FR Canadian Gen Elec Co Ltd Montreal PQ 514-340-5834

FR Zentronics Saskatoon SK 306-955-2202
FR Canadian Gen Elec Ltd Ottawa ON 613-749-5635

MITEQ INC 100 RICEFIELD LANE
HAUPTPAUGE NY 11788
TWX 510-226-3781 516-543-8873
A KISS EMP 160 ENG 20 \$5,000-\$10,000K

MITRON SYSTEMS CORP 2000
CENTURY PLAZA COLUMBIA
MD 21044 301-992-7700
A LYHUS EMP 20 ENG 4 \$2,500-\$5,000K

MITSUBISHI ELECTRONICS AMER
INC SEMICONDUCTOR DIV
1050 E ARQUES SUNNYVALE
CA 94086 TWX 910-339-9549 408-730-5900
J ZUCKER

AL Beacon Electronics Huntsville 205-881-5031
AZ SMS & Assoc Scottsdale 602-998-0831
AR OM Sales Richardson 214-690-6746
CA Mitsubishi Elect Torrance 213-515-3993
CA QCI San Jose 408-942-1077
CA Brian DePierre & Assoc San Diego 619-578-2555
CA S C Cubed Thousand Oaks 805-496-7307
CA S C Cubed Tustin 714-731-9206
CO Simpson Assoc Littleton 303-794-8381
CT Comp Rep Assoc Wallingford 203-269-1145
FL Mitsubishi Elect Boca Raton 305-487-7747
FL Beacon Electronics Maitland 305-647-3498
FL Beacon Electronics Melbourne 305-724-8010
FL Beacon Electronics Boca Raton 305-392-3500
FL Beacon Electronics Clearwater 813-796-2378
GA Beacon Electronics Atlanta 404-256-9640
GA Mitsubishi Elec Norcross 404-662-0131
IL Mitsubishi Elect Mt Prospect 312-298-9223
IL Janus Inc Itasca 312-250-9650
IN Frank Campisano Co Ft Wayne 219-747-2638

IA	Frank Campisano Co Indpls	317-253-7651	UT	Integrated Elect SLC	801-298-1869	MOD-A-CAN INC 178 MILLER PL	
IN	Enasco-Rep Blue Grass	319-386-6600	UT	Diplomat Elect SLC	801-486-4134	HICKSVILLE NY 11801	
KS	Enasco-Rep Overland Park	913-381-7557	WA	Western Microtech Sales Redmond	206-881-6737	TXW 510-221-1950	516-931-7700
KS	Enasco-Rep Wichita	316-683-1070	WA	Integrated Elect Bellevue	206-455-2727	L MAYER EMP 25 ENG 3 \$250-\$500K	
KS	Enasco-Rep Inc Lenexa	913-541-0481	WI	Classic Comp Supply New Berlin	414-271-5690		
MA	Mitsubishi Elect America Woburn	617-938-1220	FR	Space Elect Vancouver BC	604-437-3611	MODUL TECHNICAL PRODUCTS	
MA	Comp Rep Assoc Inc Westwood	617-329-3454	FR	Space Elect Toronto ON	416-336-8814	13420 WRIGHT CIR TAMPA	
MI	Favco Inc Birmingham	313-644-0173	FR	Space Elect Ottawa ON	613-596-5340	FL 33825	813-855-5736
MN	Gibb Elec Sales Minnetonka	612-935-4600	FR	Space Elect Montreal PQ	514-697-8676	D MACLEOD EMP 30	
MN	Mitsubishi Elect Minnetonka	612-938-7779				IL Hill-Gray Assoc Elmhurst	312-832-4101
NJ	Mitsubishi Elect Piscataway	201-981-9256	MITSUBISHI ELECTRONICS AMERICA				
NJ	Trinkle Sales Cherry Hill	609-795-4200	INC 991 KNOX ST TORRANCE			MODULAR COMMAND AND SYSTEMS INC	
NY	Win-Cor Electronics Manhasset	516-627-9474	CA 90502 TWX 664787	213-515-3993		18065 EUCLID ST FOUNTAIN	
NY	Leonard D Allen Syracuse	315-437-8387	EMP 401 ENG 50 OVER \$10,000K			VALLEY CA 92708	714-963-8844
NY	Leonard D Allen Inc Fairport	716-377-3530	CA Mitsubishi Sunnyvale	408-730-5900		B KENNEDY EMP 20 ENG 5	
NY	Leonard D Allen Inc Buffalo	716-831-1955	GA Mitsubishi Atlanta	404-662-0758			
NC	Beacon Electronics Raleigh	919-787-0330	IL Mitsubishi Chicago	312-298-9223		MODULAR DEVICES INC 50	
OH	Makin Assoc Cincinnati	513-871-2424	MA Mitsubishi Boston	617-938-1220		ORVILLE DR BOHEMIA NY 11716	
OH	Makin Assoc Columbus	614-481-8898	TX Mitsubishi Dallas	214-241-5300		TXW 4949781	516-567-9620
OH	Makin Assoc Solon	216-248-7370				A KOPSTEIN EMP 60 ENG 4 \$2,500-\$5,000K	
OR	ES/Chase Beaverton	503-641-4111	DISTRIBUTORS			FL DJE Assoc Enterprise	305-321-6623
OR	Mitsubishi Elect America Irving	214-258-1266	CA Intec Laguna Hills	714-859-3800		NJ Northeast Components Manchester	603-627-7242
TX	OM Assoc Richardson	918-690-6746	NY IGC New York	516-231-0006		NY Tri-Tek Assoc Wamthang	516-221-7600
TX	OM Assoc Austin	512-452-1838				NY TTA North Rochester	716-221-6764
TX	OM Assoc Houston	713-789-4426	MITSUMI ELECTRONICS CORP				
UT	Simpson Assoc M.d.vale	801-566-3691	35 PINELAWN RD MELVILLE			MODULAR DEVICES INC 4115	
WA	ES/Chase Kirkland	206-823-9535	NY 11747 TWX 221590	516-752-7730		SPENCER ST TORRANCE CA 90503	
WA	Janus Inc Milwaukee	414-476-9104	J MCCAFFREY EMP 15000 ENG 2000 OVER \$10,000K			TXW 295323	213-542-8561
FR	Tech Rep Elect Ltd Montreal	514-337-6046	CA Mitsumi Elctns Corp 4633 Old Ironsides Santa Clara			L BECKMAN	
FR	Tech Rep Elect Ltd Neapean ON	613-225-9186	IL Mitsumi Elctns Corp 1895 E Rohlwing Rolling Meadows				
FR	Tech Rep Elect Ltd Mississauga ON	416-276-6433				MODULAR POWER SYSTEMS INC	
FR	Beacon Elect Santuro PR	809-728-5040	MIYAGAWA USA CORP 3555 LOMITA BLVD TORRANCE CA 90505	213-534-4985		2201 DONLEY DR AUSTIN	
FR	Tech Rep Elect Calgary AB	403-291-2208	TXW 910-346-7050			TX 78758 TWX 752-890	512-834-9262
			TXW 910-346-7050			B SHAW EMP 60 ENG 14 \$2,500-\$5,000K	
			V MARINI EMP 10 ENG \$5,000-\$10,000K			CA Marquez & Assoc Mtn View	415-966-1012
			AZ Industrial Elect & Controls	602-894-2375		CT Vanguard Elctns Corp Wolcott	203-879-9310
			AR Automation Supplies Inc	501-767-5444		MD Stiemer Assoc Baltimore	301-944-8262
			CA Automation Supplies Inc	501-767-5444		MA Vanguard Elctns Corp Needham Hts	617-449-5578
			CA William Parks Assocs Fremont	415-796-0875		NJ Stiemer Assoc Cherry Hill	908-966-4070
			CO Arrowhead Sales Corp Arvada	303-423-5556		NY Spectrum Sales Inc Hartsdale	914-472-8600
			FL Int'l Mfgs Repts Ft Lauderdale	305-741-2449		PA Stiemer Assoc Bensalem	215-638-4850
			IN Midstates Marketing Indpls	317-639-9999			
			MA Dave Taggart Assocs Canton	617-828-6064		MODULAR SYSTEMS INC 905	
			MI D E M Electronic Sales Warren	313-575-9444		ALBEMARLE ST CHARLOTTESVILLE	
			NJ Howard Kagan Assocs Wayne	201-694-1115		VA 22901	804-295-7882
			NY Richman Sales Co Commack	516-543-5532		MODUTEC INC 18 MARSHALL ST	
			WA Harry Levinson Co Seattle	206-382-1300		NORWALK CT 06854	
						TXW 710-468-2039	203-853-3636
						EMP 250 ENG 10 \$5,000-\$10,000K	
						ADV PG 267	
						AL Beacon Elctn Assoc Huntsville	205-881-5031
						AK Denali Indus Sales Anchorage	907-243-6283
						AZ Luscombe Engrg Co Scottsdale	602-949-9333
						AR Beacon Elctn Assoc Little Rock	501-224-5448
						CA Luscombe Engrg Co Pasadena	213-684-2000
						CA Luscombe Engrg Co Campbell	408-370-2020
						CA Luscombe Engineering San Diego	714-295-4300
						CO Arrowhead Sales Co Arvada	303-423-5556
						FL Beacon Elctn Assoc Maitland	305-647-3498
						FL Beacon Elctn Assoc Boca Raton	305-392-3500
						FL Beacon Elctn Assoc Clearwater	813-796-2378
						FL Beacon Elctn Assoc Melbourne	305-724-8010
						GA Beacon Elctn Assoc Atlanta	404-256-9640
						IL Brainard Wilson Mktg Arlington Hts	312-437-2700
						IN STB & Assoc Carmel	317-844-2800
						IA MSB & Assoc Marion	313-437-6261
						KS MSB & Assoc Shawnee Mission	913-432-2131
						MD Beacon Elctns Randalstown	301-655-2265
						MA New Eng Elctn Sales Canton	617-828-4835
						MI Carter McCormic & Peirce Farmington	313-477-7700
						MN R J Inc Mnpls	612-866-3661
						MO MSB & Assoc St Charles	314-946-5577
						NJ Sprung Nussbaum Inc Englewood Cliffs	201-569-5666
						NJ Holdsworth & Co Marmora	609-390-0094
						NM Amorette Entrps Albuquerque	505-344-1433
						NY R W Mitscher Co Buffalo	716-633-7970
						NY R W Mitscher Co Rochester	716-227-0839
						NY R W Mitscher Co Red Hook	914-758-8375
						NY R W Mitscher Co Pittsford	716-586-4012
						NY R W Mitscher Co Bainbridge	607-697-7132
						NC Beacon Elctn Assoc Raleigh	919-787-0390
						OH Carter McCormic & Peirce Cleveland	216-779-5100
						OH Carter McCormic & Peirce Englewood	513-836-0951
						OR Eclipse Mktg Group Beaverton	503-642-1661
						PA Process Engineering Pittsburgh	412-561-5050
						PA Holdsworth & Co Newtown Square	215-356-8500
						TX Scientific Sales Co Richardson	214-231-6541
						TX Scientific Sales Co Houston	713-480-9170
						UT Arrowhead Sales Co SLC	801-261-1661
						VA Beacon Elctns Falls Church	703-534-7200
						VA Beacon Elctns Lynchburg	703-534-7200
						WA Eclipse Mktg Group Redmond	206-885-6991
						WI Rep-1 Assoc Colgate	414-628-4016
						FR Electro Meters Ltd Scarborough ON	416-438-6555
						FR Modutec A G Zurich Swiz	01-523211
						FR Beacon Elctn Assoc San Turce PR	809-728-5040
						DISTRIBUTORS	
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						AL Brownell Electro Birmingham	205-322-3374
						AL Brownell Electro Mobile	205-479-8581
						AK Hayden Elec Anchorage	907-278-1517
						AK Electronics Corp of Al Anchorage	907-279-1484
						AK Electronics Supply Cir Anchorage	907-277-2142
						AZ Parts Elec of AZ Phoenix	602-258-6476
						AZ Circuit Specialists Tempe	602-966-0764
						AZ Tri-Tek Inc Phoenix	602-935-3352
						AZ Electronic Dist Phoenix	602-277-6265
						AZ Inland Elec Sply Tucson	602-889-5301
						AZ Electronic Parts CO/AZ Phoenix	602-277-7281
						AZ Metermaster Phoenix	602-437-1425
						AR Component Dist Little Rock	501-227-6278

CA	Mouser Elect Santee.....	714-449-2220
CA	Peninsula Elec Sup San Jose.....	408-494-8781
CA	Solar Elect Specialties Willits.....	707-459-5326
CA	Lasher's Elect Al Berkeley.....	415-843-5915
CA	Force Electronics Ingewood.....	213-776-1324
CA	Measurite Hayward.....	415-471-4655
CA	Park/West Inc San Diego.....	619-277-8433
CA	Erlanger Sales LA.....	213-731-2238
CA	Newark Elect Ingewood.....	213-678-0441
CA	Master Master LA.....	213-685-4340
CA	Master Craft Irvine.....	714-979-1420
CA	Fisher-Brownell Santa Clara.....	408-988-6041
CA	Master Master San Diego.....	619-560-4841
CO	Denver Wintronics Denver.....	303-934-2406
CO	CW Elect Sales Denver.....	303-832-1111
CO	Master Master Inst Denver.....	303-722-5766
CO	Centennial Elec Colo Springs.....	303-633-4666
CO	Integrated Elect Denver.....	303-534-6121
CT	Hatry Elect Stratford.....	203-735-5866
CT	Midstate Elect Co Wallingford.....	203-265-9900
CT	Wise Components Greenwich.....	203-531-4880
CT	Park Dist Norwalk.....	203-853-2010
CT	L E Whelan & Co Hartford.....	203-246-5694
DE	Electronics Exchange New Castle.....	302-322-5401
DE	D & M Radio & Elect Wilmington.....	302-652-0424
FL	Electronic Equip Co Miami.....	305-871-3500
FL	EMSCO Orlando.....	305-849-6060
FL	Chester Elect Supply Largo.....	813-585-4736
FL	Component Dist Ft Lauderdale.....	305-971-4950
FL	Newark Elect Ft Lauderdale.....	305-587-2372
FL	Central Elect Supply Panama City.....	904-785-0237
FL	ESL Elect Dist Miami.....	305-633-6973
FL	Knapp of FL St Petersburg.....	813-392-4504
FL	Brownell Electro Orlando.....	305-843-6770
FL	Brownell Electro Miami.....	305-591-3215
GA	Electronics 21 Inc Savannah.....	912-352-0585
GA	Magnetic Ltd Atlanta.....	404-266-0349
GA	Brownell Electro Hapeville.....	404-762-5181
HI	Electrical Equip Co Ltd Honolulu.....	808-533-3684
IL	Joseph Elect Niles.....	312-297-4200
IL	Tri-State Elect Mt Prospect.....	312-255-0600
IL	George Elect Harvey.....	312-331-1983
IL	Mainline Supply Aurora.....	312-892-9026
IL	Daytapro Elec Arlington Hts.....	312-870-0555
IL	Master-Makers Elk Grove Vlg.....	312-439-5050
IL	Newark Elect Chicago.....	312-638-4411
IL	Electronic Dist Inc Chicago.....	312-283-4800
IL	Farver Woodstock.....	815-338-9960
IL	Master-Master Elk Grove Vlg.....	815-299-0225
IL	Newark Elect Rockford.....	815-229-0225
IN	Graham Elect Ft Wayne.....	219-423-3422
IN	ACRO Elect East Chicago.....	219-877-8681
IN	Calumet Elec Sup Gary.....	219-887-4961
IN	C W Y Elec Lafayette.....	317-448-1611
IN	Olio Valley Sound Evansville.....	812-425-6173
IN	Standard Radio Sply Muncie.....	317-288-5525
IN	Electro Lab Service Evansville.....	812-423-5211
IN	Graham Elect Sply Indpls.....	317-634-8202
IN	Tri State Elect Sup Michigan City.....	219-872-5551
IA	Mid-State Dist Des Moines.....	515-244-7231
IA	Iowa Radio Sply Cedar Rapids.....	319-393-4510
IA	Molstad Dist Sply Sioux City.....	712-255-8023
IA	CB Equipment Council Bluffs.....	712-323-7347
KS	Carroll Radio & TV Sply Topeka.....	913-234-6677
KS	RSC Electronics Wichita.....	316-267-5216
KY	Ohio Valley Sound Owensboro.....	812-425-6173
LA	Industrial Elec Sup Shreveport.....	337-222-9459
LA	Wm B Allen Sply New Orleans.....	504-535-9593
LA	Hamilton Radio Commun Houma.....	504-876-1570
MD	Baysville Elect Towson.....	301-823-0082
MD	Treko Sales Beltsville.....	301-937-8260
MD	Pioneer Instr Gaithersburg.....	301-948-0710
MD	Standard Elect Salisbury.....	301-749-7393
MD	Cox Electronics Odenton.....	301-569-4784
MD	Electronics Plus College Park.....	301-441-9009
MD	Harco Electronics Aberdeen.....	301-838-7990
MA	YDI Elect Needham.....	617-449-1005
MA	Hampden Elec Sup W Springfield.....	413-734-6407
MA	Abbott Elect Inc Woburn.....	617-935-2040
MA	Newark Elect Springfield.....	413-785-5851
MA	Signal Elect Ctr Springfield.....	413-739-3893
MA	Land Elec Supply Lynn.....	617-592-2220
MA	Brownell Electro Woburn.....	617-935-7820
MI	N W R Elect Marquette.....	906-228-9080
MI	Westland Elect Westland.....	313-728-0650
MI	Ram Meter Ferndale.....	313-938-6767
MI	Shand Elect Flint.....	313-743-8940
MI	Fl Wayne Elec Supply Ann Arbor.....	313-663-3941
MN	Tortec Mnpls.....	612-866-3662
MN	Electronic Ctr Inc Mnpls.....	612-371-5200
MN	H A Holden Inc Mnpls.....	612-336-1693
MN	NWR Elect Virginia.....	218-741-5080
MN	Northwest Radio of Duluth Duluth.....	218-727-1565
MN	NWR Elect Bloomington.....	612-854-7329
MO	Electronics Supply Co KC.....	816-931-0250
MO	Olive Elect St Louis.....	314-426-4500
MO	Electro Sales KC.....	816-221-0303
MO	Gateway Elect St Louis.....	314-427-6116
NE	Kriz-Davis Co St Joseph.....	816-232-8478
NE	G I Elec Sup Grand Island.....	308-382-3743
NE	Leuck Radio Sply Lincoln.....	402-432-2797
NE	Scott Elect Sply Lincoln.....	402-466-8221
NV	Electronic Dist Co of NE Reno.....	702-323-2766
NH	Tufts Radio & Elec Co Hudson.....	603-883-5005
NJ	Route Elect Springfield.....	201-467-0166
NJ	Route Elect Totowa.....	201-256-8555
NJ	William Elect Sply Edison.....	201-985-3700
NJ	Ampower Elec Instr Fairfield.....	201-227-7720
NJ	Sintec Co Div Aries Elec Frenchtown.....	201-996-6841
NJ	Route Elect 17 Inc Paramus.....	201-444-8717
NJ	Laraco of Vineland Vineland.....	609-691-2900
NJ	Miscorp Marshall Div Belleville.....	201-751-1190
NJ	Too Town Howe Supply Paramus.....	201-262-6337
NJ	Brownell Electro So Plainfield.....	201-753-4600
NM	Electronic Parts Co Albuquerque.....	505-293-6161
NM	Mannie's Elec/Photo Las Cruces.....	505-524-3646

NM	Consolidated Elec Distr Farmington.....	505-327-6235
NM	Electronic Parts Co Las Cruces.....	505-523-4578
NY	Edwin E Taylor Co Albany.....	518-488-7811
NY	H L Dallis Inc LIC.....	212-361-1100
NY	Ray Supply Glens Falls.....	518-792-5848
NY	Radio Equip Corp Buffalo.....	716-874-2690
NY	Taft Elect 45 Corp NYC.....	212-575-5194
NY	Trojan Elect Troy.....	518-274-4481
NY	Genesee Radio & Parts Buffalo.....	716-873-9661
NY	Mastine Elec Rochester.....	716-546-5373
NY	Century Elec Ltd Hauppauge.....	516-273-1551
NY	Kelvin Elect Farmingdale.....	516-249-4646
NY	Stewart W Smith Inc Syracuse.....	315-422-0323
NY	Warren Radio Jamestown.....	716-484-1411
NY	Greylock Elect NYC.....	212-541-5900
NY	W B Clark Indus Sply Brooklyn.....	212-638-7705
NY	Electronic Equipment Hempstead.....	212-895-5757
NY	Fordham Radio Farmingdale.....	516-752-0050
NY	Long Island Elec Sup Bay Shore.....	516-666-3630
NY	Route Elect Inc Nanuet.....	914-623-3868
NY	Pride Elect Farmingdale.....	516-293-4020
NY	Corning Elect Corning.....	607-962-0555
NY	Dutchess Tel-Audio Poughkeepsie.....	914-462-1700
NY	Geater Assoc Tonawanda.....	716-693-4018
NY	Unicom-Electro NYC.....	212-691-1171
NY	Unicom Electronics Johnson City.....	607-798-0260
NY	Brookline Elec Hauppauge.....	516-231-4100
NY	Electronics Whse Corp Brooklyn.....	212-375-2700
NY	Grimmers Elec Sup Schenectady.....	518-314-8400
NY	Davis Electronics Corp Hempstead.....	516-483-9200
NY	Harvey Elect Woodbury.....	516-92-8170
NY	Rome Security Devices Rome.....	315-336-0748
NY	Trott Elect Clarence.....	716-634-8500
NC	Dixie Elect Charlotte.....	704-377-5413
NC	Component Dist Raleigh.....	919-484-0177
NC	J M T Elect Sply Gastonia.....	704-867-4401
NC	Brownell Electro Charlotte.....	704-597-1270
NC	Bryant Supply Co Inc Gastonia.....	704-866-6000
NC	Brownell Electro Raleigh.....	919-876-6524
OH	Akron Elec Sup Akron.....	216-762-8818
OH	Stotts-Friedman Dayton.....	513-298-5555
OH	Newark Elect Cleveland.....	216-361-4700
OH	Pioneer Instr Cleveland.....	216-587-3600
OH	Gion Instr Dayton.....	513-236-9900
OH	Weschler Elec Co Cleveland.....	216-238-2550
OK	Trice Whsl Elect Okla City.....	405-524-4411
OK	Intek Tulsa.....	918-622-8570
OR	Portland Elec & Plumb Portland.....	503-243-6800
OR	United Radio Supply Inc Portland.....	503-233-5341
OR	Portland Radio Sply Portland.....	503-228-8647
OR	Radar Electric Portland.....	503-233-3404
PA	Sunshine Scien Phila.....	215-673-5600
PA	Cumberland Elec Harrisburg.....	717-232-9715
PA	Kimberly-James Co Norristown.....	215-666-7286
PA	Electrical Tachometer Phila.....	215-726-7273
PA	Power Modules Inc Narberth.....	215-839-1331
RI	Jabour Elec Supplies Pawtucket.....	401-728-4600
SC	Dixie Elect Columbia.....	803-779-5332
SC	Brookshire Elect Anderson.....	803-225-0567
TN	Bluff City Elec Memphis.....	901-345-9500
TN	Techni-Tronics Chattanooga.....	615-875-5449
TN	Allied Elect Memphis.....	901-365-3936
TN	Brownell Electro Memphis.....	901-795-8483
TN	Dixie Electronics Knoxville.....	615-938-1431
TN	Brownell Electro Nashville.....	615-889-8230
TN	Brownell Electro Knoxville.....	615-966-3441
TX	Allied Elec Div Tandy Ft Worth.....	817-336-5401
TX	Mid-State Elect Sply Bryan.....	713-779-1226
TX	American Analog Houston.....	713-941-7265
TX	Wholesale Elec Supply Austin.....	512-478-7568
TX	Prime Dist Co Allen.....	214-231-0170
TX	Angie Elect Houston.....	713-659-8386
TX	Intek Dallas.....	214-243-8370
TX	Brownell Electro Houston.....	713-699-1981
UT	Kimball Elec SLC.....	801-328-2075
UT	Standard Supply SLC.....	801-486-3371
UT	Omega Elect Provo.....	801-375-4664
VA	Priest Elect Norfolk.....	804-855-0105
VA	Component Dist Falls Church.....	703-533-3500
VA	Electrical Whlrs Harrisonburg.....	703-434-1751
VA	Womack Radio Sply Lynchburg.....	804-845-5983
VA	Peoples Elec Supply Roanoke.....	703-342-8933
WA	Radio Sply Seattle.....	206-767-3222
WA	ABC Commun Seattle.....	206-364-8300
WA	Radar Elec Seattle.....	206-282-2511
WA	Almac Stroum Elect Seattle.....	206-643-9992
WA	Eicher-Richards Seattle.....	206-523-7888
WI	E M Instr Milwaukee.....	414-272-7799
WI	Chester Elect Kenosha.....	414-658-4616
WI	Electronic Industries Oshkosh.....	414-235-8930
WI	Indus Elec Corp of WI Milw.....	414-276-1212
WI	Satterfield Elect Madison.....	608-257-4801
WI	G M Popkey Co Green Bay.....	414-437-5445
WI	Schrenk Sales Madison.....	608-271-7950
WI	Lake-View Elect Mequon.....	414-377-8250
WI	Fedco Elect Fond Du Lac.....	414-922-6490
WI	Thompson Elect Janesville.....	608-754-2858
WI	Marsh Elect Milwaukee.....	414-475-6000
WI	Badger Elect Part Racine.....	414-637-1256
WI	Appleton Radio Sply Appleton.....	414-734-5767
WY	Houge Radio & Sup Cheyenne.....	307-632-6474

MOHAWK WIRE & CABLE CO		
9 MOHAWK DR LEOMINSTER		
MA 01453 TWX 710-347-7620..... 617-537-9961		
F TABB EMP 200 ENG 4 OVER \$10,000K		
AZ	Adtek Glendale.....	602-931-9289
CA	Buffa Co Downey.....	213-923-4618
CA	MZ Marketing Group Santa Clara.....	408-986-0676
CO	Electronic Component Sys Englewood.....	303-797-2772
IL	H Benjamin Assoc Glencoe.....	312-835-0150
MA	G T Joyce Holden.....	617-829-6521
MN	Scott Electronic Sales Mnpis.....	612-929-2985
NJ	Dyno Rep Inc Manville.....	201-685-0135
NY	Tech-Mark Mendon.....	716-624-3840
OH	Lee Tronics Cuyahoga Falls.....	216-928-8584
PA	Monteiro Assoc Doylestown.....	215-345-5855
UT	Quality Component Sales SLC.....	801-268-8000

FR	Willagan Electns Assoc Mississauga ON.....	415-673-7294
MOLDTRONICS INC 703 ROGERS ST		
DOWNERS GROVE IL 60515		
TWX 910-695-3537		
JARNOLD EMP 175 ENG 3 \$2,500-\$5,000K		
CA	S-J-N Sales Topanga.....	213-455-1813
FL	Martinet & Assoc Vero Beach.....	305-567-8413
IL	Eero Inc Cary.....	312-639-1162
IN	Butler Components Indpls.....	317-253-5433
MN	PDQ Components Mnpls.....	612-938-5850
OH	Harry G Lake Co Dayton.....	513-277-8191
PA	Thos G Armstrong Assoc Lancaster.....	717-397-2942
RI	R P Morrison Co Wickford.....	203-633-6461

MOLECULAR COMPUTER CORP		
1983 CONCOURSE DR SAN JOSE		
CA 95131		
EMP 150 OVER \$10,000K		
CA	Molecular Computer Newport Beach.....	714-476-8330
IL	Molecular Computer Lombard.....	312-960-4440
MD	Molecular Computer Landover.....	301-459-2800
NY	Molecular Computer Elmsford.....	914-592-1890
TX	Molecular Computer Dallas.....	214-932-9806

MOLECU-WIRE CORP BOX 495		
FARMINGDALE NJ 07727		
TWX 710-723-6943		
H TICE EMP 180 ENG 8		
CA	Roger D Dahl Co Box 597 Montrose.....	213-245-3817
CT	KLS Sales 251 Currier Dr Orange.....	203-795-6210
KY	Waddle Assoc Box 6495 Louisville.....	502-897-6419
MO	Hite Central Inc Independence.....	816-796-6684
NC	QED Box 240743 Charlotte.....	704-525-0533
PA	Patterson Electric Lioniger.....	412-238-6238
WA	Comptronics Inc Seattle.....	206-326-6238
WI	Robco 1200 W Sierra La Mequon.....	414-241-3345

MOLEX INC 2222 WELLINGTON CT		
LISLE IL 60532 TWX 895-3533		
P WEBER EMP 3100 ENG 300 OVER \$10,000K		
AL	D Andrew Huntsville.....	404-396-6120
AZ	R Davy Phoenix.....	602-990-4113
AR	G Montgomery Little Rock.....	501-666-0260
CA	J Hunter Costa Mesa.....	714-241-8588
CA	Molex Inc San Jose.....	408-945-9060
CO	Molex Inc Englewood.....	303-779-8320
CT	L Laine Hamden.....	617-935-8983
FL	J Carsello Boca Raton.....	404-396-6121
GA	E Parkinson Atlanta.....	404-396-6121
IN	Molex Inc Indpls.....	317-299-0009
KY	J Lieb Louisville.....	404-396-6120
MD	S Pequinney Chevy Chase.....	404-396-6120
MI	J Moore Woburn.....	617-935-8983
MI	Schwegman & Assocs Royal Oak.....	313-542-6767
MN	J Abramson Edina.....	612-893-9025
MO	D Bermal Kansas City.....	816-737-9427
NJ	R Fiocco South Lakewood.....	617-935-8983
NY	J Schmitt Honeoye Falls.....	617-935-8983
NC	R Titka Raleigh.....	404-396-6121
OR	C Lucka Columbus.....	317-299-0009
OH	G Rohde Lake Oswego.....	503-636-2800
PA	M Rettig Newtown.....	617-935-8983
TX	Insul Repts Knoxville.....	615-691-7581
TX	D Otten Richardson.....	214-437-9109
WA	K Rott Redmond.....	206-868-5112

DISTRIBUTORS

AR	Carlton-Bates Little Rock.....	501-562-9100
CA	Peter DeLaet S San Francisco.....	415-873-6664
CA	Force Elect El Segundo.....	213-772-1321
CA	Diplomat Chatsworth.....	213-341-4441
CA	Hamilton Avnet Culver City.....	213-558-2000
CA	Richey Western Garden Grove.....	714-895-0060

PA	Jacobson Assoc Hatboro	215-674-2937
TX	ION Assoc Grand Prairie	214-647-8225
WA	Reptronix Kirkland	206-488-7381
MONITOR PRODUCTS CO INC		
502 VIA DEL MONTE OCEANSIDE		
CA	CA 92054 TWX 910-322-1381	619-433-4510
B BECK EMP 55 ENG 5 \$5,000-\$10,00K		
AZ	CSR Electronics Huntsville	205-533-2444
AL	Eltron Phoenix	602-266-2164
CA	D2 Uni Rep Co San Diego	619-292-9001
CA	Straub Assoc Mtn View	415-969-6060
CO	Electrodyn Inc Aurora	303-695-8903
CT	Lindo Assoc Southbury	203-264-7200
FL	Tech Rep Assoc Clearwater	813-530-1619
GA	CSR Elcins Atlanta	404-396-3720
IL	Momak Sales Downers Grove	312-963-6400
IN	Corrao March Inc Ft Wayne	219-637-5548
IA	Enesco Rep Inc Davenport	319-386-6600
KJ	Enesco Rep Inc Wichita	316-683-1070
MN	Electronic Innovators Eden Prairie	612-941-0830
MO	Enesco Rep Inc Maryland Hts	314-423-3935
NY	Parallax Sales Melville	516-351-1000
NY	CW Floring & Assoc Syracuse	315-478-2149
NC	CSR Electronics Raleigh	919-878-9200
OR	Western Tech Sales Hillsboro	503-640-4621
PA	J S Wurts Co Gladwyne	215-649-6300
TN	CSR Electronics Knoxville	615-673-0222
TX	Mil-Rep Assoc Richardson	214-644-6731
UT	Electrodyn Inc SLC	801-486-3801
WA	Western Tech Sales Bellevue	206-641-3900

DISTRIBUTORS		
AZ	Harper SID Tempe	602-967-1464
CA	Ratel Electronics San Jose	408-436-0500
CA	Ratel Electronics Irvine	714-768-0855
CA	Harper SID Compton	213-979-5090
CA	Harper SID Sunnyvale	408-747-0333
CA	Harper SID San Diego	619-560-8545
IL	Voyager Itasca	312-773-4900
MA	Today Component Sales Stow	617-897-7500
MN	Voyager Electronics Fridley	612-571-7766
MO	Enesco Dist Corp Maryland Hts	314-423-3935
TX	C & W Supply Ft Worth	817-831-0395
TX	Sunbelt McKinney	214-235-0587
TX	Harper SID Richardson	214-235-3177

MONADNOCK CO BOX 1222		
CITY OF INDUSTRY CA 91749		
TX	TX 910-584-1303	818-964-6581
C MILLER EMP 55 ENG 3		
WA	AIE Inc Box 1021 Bellevue	206-455-4697

DISTRIBUTORS		
CA	Barco Fasteners Inc LA	213-207-0481
KJ	Unirex Inc Wichita	316-685-5451
NY	Delsea Fasteners Maple Shade	609-228-7700
NY	Aero Hdwe & Parts Co Rye	914-967-8550

MONOLITHIC MEMORIES INC		
2175 MISSION COLLEGE BLVD		
SANTA CLARA CA 95054		
TX	TX 910-339-9229	408-970-9700
R GOULDSBERRY OVER \$10,00K		

MONTEODORO-WHITNEY CORP		
2741 E MC MILLAN SAN LUIS		
OBISPO CA 93401 TWX 706148		
GA	G OUWERKERK EMP 35 ENG 8 \$1,000-\$2,500K	805-543-1233

MONTEVIDEO TECHNOLOGY INC		
204 N 4 ST MONTEVIDEO		
MN	MN 56265	612-269-6562
W NEES EMP 170 ENG 9 \$2,500-\$5,00K		
CT	Underwood Sales Wethersfield	203-563-3046
MA	Underwood Sales Chelmsford	617-256-8191
NY	Cane Tech Sales Mamaroneck	914-698-4411
NY	S F Foster Co Webster	716-265-2072

MONTGOMERY CO CANAL ST		
WINDSOR LOCKS CT 06096		
TX	TX 643267	203-623-3336
H MONTGOMERY JR EMP 250 ENG 3		

MOODY TOOLS INC 59 CROMPTON AVE		
EAST GREENWICH RI 02818		
D	D MOODY EMP 10 ENG 1 \$500-\$1,000K	401-885-0911
CA	Maglano-Dodds-Evans-Hall Alamo	415-820-6395
CO	A-E S Inc Denver	303-777-8733
IL	Witz-Knight Lake Zurich	312-438-9030
KJ	Modern Mktg Co Overland Pk	913-341-2426
MD	Coastline Sales Co Baltimore	301-828-8520
NJ	Mishkin & Rippes Caldwell	201-226-2119
NY	Mishkin & Rippes New York	212-889-9711
NY	S & B Industrial Sales	716-662-5988
OH	Thomas Shelby & Co St Marys	419-394-3377
RI	Kilburn Assoc Barrington	401-437-1839
FR	Harold E Moore Co Hata-Rey PR	809-753-0032

DISTRIBUTORS		
AZ	Forbes Dist Birmingham	205-251-4104
AZ	Jensen Tools Inc Phoenix	602-968-6241
CA	James Tools Inc San Jose	408-295-7288
CA	Claude Michael El Monte	818-442-7204
CO	Denver Walker Elect Denver	303-935-2401
CO	Fistell's Elect Supply Denver	303-629-1312
CT	R & S Elect E Hartford	203-528-9901
CT	Electronics Warehouse Old Lyme	203-434-8308
FL	Claude Michael Orlando	305-841-1878
FL	Electronic Equipment Co Miami	305-871-3500
GA	ACK Radio Sply Atlanta	404-351-6340
GA	Claude Michael Inc Norcross	404-925-1895
L	Newark Elect Chicago	312-638-4411
L	Avelec Inc Wilmette	312-441-5676
N	Acro Elect E Chicago	219-397-8681
N	Stansifer Radio Bloomington	317-336-6339
A	Ralph's of Lafayette Lafayette	318-233-0105
WD	Capitol Radio Rockville	301-881-2270

MD	Claude Michael Inc Gaithersburg	301-840-9450
MA	Gerber Elect Norwood	617-769-6000
MA	Land Elect Lynn	617-592-2220
MI	Electro Tool Livonia	313-422-1221
MI	Sporn Systems Southfield	313-559-5110
MN	NWR Elect Hibbing	218-262-5228
MO	Elec Sply Co KC	816-931-0250
MO	Ebinger Electronics St Louis	314-353-8818
NJ	Tool Tronics Saddle Brook	201-478-2203
NJ	Comprehensive Video Northvale	201-767-7990
NJ	Claude Michael Inc Mt Laurel	609-778-8720
NY	Electronic Tool Pleasantville	914-769-8070
NY	Harvey Electronics New York	212-575-0527
NY	Edwin E Taylor Co Albany	518-438-7811
OH	Hughes-Peters Columbus	614-294-5351
OH	Haseley Dist Co Cleveland	216-572-1455
OK	Trice Elect Okla City	405-524-4411
PA	Herbach & Radaman Phila	215-262-1700
PA	Leff Elect Braddock	412-351-5000
TX	Alid Elect Ft Worth	817-336-5401
TX	Specialized Prods Dallas	214-257-3535
TX	Claude Michael Inc Dallas	214-233-7650
UT	Standard Sply SLC	801-486-3371
UT	Ra-Elec Inc SLC	801-487-7749
VA	Priest Electronics Norfolk	804-855-0105
WA	Claude Michael Bellevue	206-747-9100
WI	Satterfield Elect Madison	608-257-4801

MOORE PRODUCTS CO SUMNEYTOWN		
PIKE SPRING HOUSE PA 19477		
TX	TX 83-4378	215-646-7400
G TALL EMP 975 ENG 225 OVER \$10,00K		
AL	Moore Products Mobile	476-5334
CA	Moore Products Hayward	887-5535
CA	Moore Products Downey	773-0831
CO	Moore Products Boulder	442-4141
CT	Moore Products Hamden	288-0795
DE	Moore Products Wilmington	655-3321
FL	Moore Products Jacksonville	276-1604
GA	Moore Products Tucker	939-8494
IL	Moore Products Glen Ellyn	790-3550
KY	Moore Products Louisville	897-1896
LA	Moore Products Baton Rouge	927-1674
MA	Moore Products Wakefield	245-5414
MI	Moore Products Southfield	557-1303
MN	Moore Products St Paul	646-4086
NJ	Moore Products Union	687-5242
NY	Moore Products Buffalo	874-0422
NC	Moore Products Charlotte	523-7355
OH	Moore Products Chardon	285-3561
OK	Moore Products Tulsa	479-9781
PA	Moore Products Pittsburgh	343-4555
TN	Moore Products Knoxville	584-6131
TX	Moore Products Houston	666-7686
VA	Moore Products Richmond	355-1640
WA	Moore Products Seattle	242-2559
FR	Moore Instrument Co Ltd Brampton ON	457-9638
FR	Moore Products San Juan PR	781-7210

MOORE SYSTEMS-STITCHWELL CORP		
20235 NORRHOFF ST CHATSWORTH		
CA	CA 91311 TWX 910-494-1916	818-882-7700
M STILES EMP 35 ENG 3		
MD	Faion Lott Co Inc Baltimore	301-744-4611
NY	Upstate Comp Sales Penfield	716-381-6070
WA	Gompf & Assoc Issaquah	206-392-8898

MORAN CO INC T R 525 INDUSTRIAL		
WAY FALLBROOK CA 92028		
TX	TX 619-728-6121	619-728-6121
T MORAN EMP 10 ENG 1 \$100-\$250K		

MORGANITE INC 1 MORGANITE DR		
DUNN CT 06834 TWX 579-368		
TX	TX 919-892-8081	919-892-8081
K RICH EMP 400 ENG 15 OVER \$10,00K		

MORRIS ENTERPRISES INC		
16799 SCHOEENBORN ST SEPULVEDA		
CA	CA 91343 TWX 910-496-1525	213-894-9103
J DUMPERT		

MORRISON ELECTRONICS CORP		
1445 SUMMIT ST COLUMBUS		
OH	OH 43201 TWX 31-0889747	614-291-7000
R D'ONOFRIO EMP 20 ENG 4 OVER \$10,00K		
OH	A J Assoc Dover	216-343-2224

MORSE CO FRANK W 44 LINCOLN		
ST BOX 94 SACO ME 04072		
TX	TX 207-284-4166	207-284-4166
R MORSE EMP 12 ENG 2		

MOSELEY ASSOCIATES INC		
111 CASTILIAN DR GOLETA		
CA	CA 93117 TWX 658448	805-968-9621
A CONSTANTINE EMP 165 ENG 9 \$5,000-\$10,00K		

DISTRIBUTORS		
CA	Communications West Sacramento	916-332-8700
IN	Allied Broadcast Equip Richmond	317-962-8596
MI	Audio Broadcast Group Grand Rapids	800-253-9281
NY	Northeast Broadcast Lab	518-793-2181
NC	SCMS Inc Pineville	704-889-4508
TX	National Television Sys Austin	512-837-1769
WA	Broadcast Supply West Tacoma	206-565-2301
WA	RF Specialties of WA Seattle	206-367-7730

MOSER JEWEL CO 544 FAYETTE ST		
PERTH AMBOY NJ 08862		
TX	TX 201-442-3434	201-442-3434
D LUCAS EMP 64 ENG 2 \$1,000-\$2,500K		

MOSINNEE PAPER CORP PULP		
& PAPER DIV 100 MAIN ST		
MOSINNEE WI 54455-1497		
TX	TX 29-0363	715-693-2111
T POTTER EMP 550 ENG 5 OVER \$10,00K		
FL	G Maddox Fernandina Bch	904-261-7876
NH	N H Lennon Kingston	603-642-3021

MOSTEK CORP 1310		
ELECTRONICS-MS2205 CARROLLTON		
TX 75006 TWX 910-860-5975		
P SMYTH EMP 1000 ENG 1000 OVER \$10,00K		
AL	Mostek Huntsville	205-830-9036
CA	Mostek Irvine	714-250-0455
CA	Mostek San Jose	408-287-5080
FL	Mostek Altamonte Springs	305-869-4979
IL	Mostek Schaumburg	312-397-6550
MA	Mostek Burlington	617-273-3310
MN	Mostek Bloomington	612-831-2322
NJ	Mostek Marlton	609-596-9200
WA	Mostek Seattle	206-632-0245

DISTRIBUTORS		
CA	Ital Sales City of Industry	818-968-8515
CT	Greene-Shaw Co New Haven	203-469-2321
FL	Alli Amer Semiconductor Miami	800-327-6237
IN	Advent Elect Indpls	317-872-4910
MA	Lionex Corp Burlington	617-272-9400
NJ	General Radio Camden	609-964-8560
NJ	Solid State Bloomfield	201-429-7000
NY	Add Electronic E Syracuse	315-437-0300
NY	Arrow Elect Hauppauge	516-231-1000
NY	Schwabe Elect Westbury	516-334-7474
NY	Zeus Components Port Chester	914-937-7400
NC	Hammond Elect Greensboro	919-275-6391
OH	Pioneer Elect Cleveland	216-587-3600
PA	CAM-RPC Pittsburgh	412-782-3770
SC	Dixie Elect Columbia	803-779-5332
TX	Quality Components Addison	214-387-4949
TX	Sterling Elect Houston	713-623-6600
FR	Prelec Elect Montreal PQ	514-389-8051
FR	RAE Industrial Burnaby BC	604-291-8866
FR	Zentronics Brampton ON	416-451-9600
FR	Future Elect Montreal PQ	514-694-7710

MOSTRON INC 2239 PARAGON DR		
SAN JOSE CA 95131		
TX	TX 408-946-1727	408-946-1727
A FRANCIS EMP 7 ENG 2 \$1,000-\$2,500K		

MOTION SCIENCE INC 1485		
KERLEY DR SAN JOSE CA 95112		
TX	TX 408-287-0300	408-287-0300
A MACK EMP 26 ENG 7		
CA	Motion Dynamics Inc Tarzana	808-345-2126
IL	JHS Assoc Elgin	312-741-9070
NJ	E Cohen E Brunswick	201-254-6624
WI	EMCO of Wisc Milwaukee	414-242-0800

MOTOROLA CERAMIC PRODUCTS		
4800 ALAMEDA BLVD ALBUQUERQUE		
NM 87113		
TX	TX 505-822-8801	505-822-8801
T GILDER EMP 200 ENG 15		

DISTRIBUTORS		
CA	Culver Electronics Gardena	213-538-2811
FL	TEI Electronics Hialeah	305-887-5197
FL	BP Elect of Miami Miami	305-594-2878
IL	TEAMS Inc Chicago	312-282-8171
IL	Kellner / Universal Elect Highland Pk	312-831-5885
NY	Harry Krantz Co New York	516-775-5050
NY	Gem Sound Co New York	212-220-1399
OH	Martin Sound Products Cleveland	216-442-2286
OH	Herald Electronics Mogadore	216-798-1010

MOTOROLA INC AUTOMOTIVE		
& INDUS ELCTNS GRP 1299		
E ALGONQUIN RD SCHAUMBURG		
IL 60196 TWX 910-693-2986.....	312-576-4850	
J BONK		

Authorized Distributor With In-Depth Inventories



MOTOROLA INC.

Display Systems



KIN-TRONICS INC.

7 Odell Plaza, Yonkers, NY 10701
(914) 968-7736 • (800) 431-1658



MA	Kierulff Billerica	617-667-8331
MA	Lionex Corp Burlington	617-272-9400
MI	R S Electronics Livonia	313-525-1155
MN	Kierulff Edina	612-941-7500
NY	Pioneer/Harvey Elec Woodbury	516-921-8700
NY	Caesar Elec Bay Shore	516-242-8478
OH	Pioneer Standard Elec Cleveland	216-587-3600
OH	Pioneer-Dayton Dayton	513-236-9900
OH	Kierulff Cleveland	216-587-6558
OH	Hughes-Peters Inc Columbus	614-294-5351
TX	Hall-Mark Elec Dallas	214-343-5000
TX	Kierulff Dallas	214-343-2400
TX	Kierulff Houston	713-530-7030
UT	Bell Industries SLC	801-972-6969
UT	Kierulff SLC	801-973-6913
WA	Kierulff Tukwila	206-575-4420

MOTOROLA INC DISPLAY SYSTEMS

1299 E ALGONQUIN RD		
SCHAUMBURG IL 60196		
TXW 910-693-2988		312-576-7700
CA	Motorola Santa Clara	408-988-3422
NH	Motorola Windham	603-898-5921
TX	Motorola Dallas	214-340-0394

DISTRIBUTORS

CA	Anthem Electronics San Jose	408-946-8000
CA	Anthem Electronics Tustin	714-768-4444
CA	Pelcor Orlando	305-298-7748
IL	Mar-con Assoc Skokie	312-675-6450
MA	Impact Sales Canton	617-821-1500
MI	Startronics Farmington Hill	313-477-7586
MO	Enso Distr Maryland Hts	314-223-3935
NY	Kin-Tronics Yonkers	914-968-7736
TX	Texprint Dallas	214-484-9933
VA	Scott Data Alexandria	703-765-7901
WA	Anthem Electronics Redmond	206-881-0850

MOTOROLA INFORMATION SYSTEMS

10700 N DE ANZA BLVD	
CUPERTINO CA 95014	
TXW 910-338-0290	408-255-0900
K KAFKA	

AZ	Motorola Phoenix	602-254-0652
CA	Motorola Los Angeles	213-670-8430
CA	Motorola San Bruno	415-873-9073
CO	Motorola Denver	303-770-7600
CT	Motorola Avon	203-678-0440
FL	Motorola Miami	305-591-2374
GA	Motorola Atlanta	404-955-0100
IL	Motorola Chicago	312-559-0025
IN	Motorola Indpls	317-872-5076
KS	Motorola Overland Park	913-451-9150
KY	Motorola Louisville	502-425-3337
LA	Motorola Metairie	504-831-3552
MD	Motorola Linthicum	301-850-4360
MA	Motorola Lexington	617-861-9235
MI	Motorola Birmingham	313-645-6060
MN	Motorola Minneapolis	612-893-1820
MS	Motorola Jackson	601-355-6476
MO	Motorola St Louis	314-576-6969
NJ	Motorola Rochelle Park	201-845-0252
NY	Motorola Buffalo	716-845-6930
NY	Motorola New York	212-509-4000
NC	Motorola Charlotte	704-542-1144
OH	Motorola Worthington	614-846-6490
OK	Motorola Tulsa	918-684-3355
OR	Motorola Portland	503-224-3288
PA	Motorola King of Prussia	215-337-4232
TN	Motorola Nashville	615-244-6540
TX	Motorola Dallas	214-241-7700
UT	Motorola Murray	801-262-7000
VA	Motorola Vienna	703-448-0011
WA	Motorola Bellevue	206-455-2442
WI	Motorola Milwaukee	414-476-5123
FR	Motorola Hato Rey PR	809-753-7075

MOTOROLA SEMICONDUCTOR PRODUCTS

INC BOX 52073 PHOENIX		
AZ	85072 TXW 910-951-1334	602-244-6900
B HILTON OVER 10,000K		
AL	Motorola Semiconductor	
	Huntsville	205-830-1050
AZ	Motorola Semiconductor Phoenix	602-244-7100
CA	Motorola Semiconductor San Jose	408-985-0510
CA	Motorola Semiconductor	
	Los Angeles	818-706-1929
CO	Motorola Semiconductor Denver	303-337-3434

CT	Motorola Semiconductor	
	Wallford	203-284-0810
FL	Motorola Semiconductor	
	Ft Lauderdale	305-486-9775
GA	Motorola Semiconductor Atlanta	404-256-0222
IL	Motorola Semiconductor	
	Schaumburg	312-576-7800
IN	Motorola Semiconductor Indpls	317-849-7060
IA	Motorola Semiconductor	
	Cedar Rapids	319-373-1328
KS	Motorola Semiconductor Mission	913-384-3050
MD	Motorola Semiconductor	
	Hyattsville	301-577-2600
MA	Motorola Semiconductor	
	Burlington	617-273-5020
MI	Motorola Semiconductor Westland	313-261-6200
MN	Motorola Semiconductor	
	Minneapolis	612-941-6800
MO	Motorola Semiconductor St Louis	314-872-7681
NJ	Motorola Semiconductor	
	Hackensack	201-488-1200
NM	Motorola Semiconductor	
	Albuquerque	505-255-5599
NY	Motorola Semiconductor Hauppauge	516-361-7000
NY	Motorola Semiconductor Fairport	516-425-4000
NC	Motorola Semiconductor Raleigh	919-876-6025
OH	Motorola Semiconductor Cleveland	216-461-3160
OK	Motorola Semiconductor Tulsa	918-664-5227
OR	Motorola Semiconductor Portland	503-641-3681
PA	Motorola Semiconductor Horsham	215-443-9400
TN	Motorola Semiconductor Knoxville	615-690-5592
TX	Motorola Semiconductor Dallas	214-699-3900
UT	Motorola Semiconductor SLC	801-539-1190
VA	Motorola Semiconductor	
	Charlottesville	804-977-3691
WA	Motorola Semiconductor Bellevue	206-454-4160
WI	Motorola Semiconductor Wauwatosa	414-792-0122
FR	Motorola Semiconductor Ottawa ON	613-226-3491
FR	Motorola Semiconductor	
	Montreal PQ	514-731-6881
FR	Motorola Semiconductor	
	Winnipeg MB	204-889-0693

DISTRIBUTORS

AL	Kierulff Huntsville	205-883-6070
AL	Pioneer/Huntsville Huntsville	205-837-9300
AL	Hamilton/Avnet Huntsville	205-837-7210
AL	Schweber Elec Huntsville	205-882-2200
AZ	Hamilton/Avnet Tempe	602-231-5100
AZ	Hall-Mark Elec Phoenix	602-437-1200
AZ	Kierulff Phoenix	602-437-0750
CA	Bell Industries Sunnyvale	408-734-8570
CA	Hamilton Electro Sales	
	Culver City	213-558-2501
CA	Schweber Irvine	213-537-4321
CA	Hamilton/Avnet Sunnyvale	408-743-3300
CA	Kierulff Elec Cypress	714-220-6300
CA	Hamilton/Avnet San Diego	714-571-7510
CA	Kierulff Elec LA	213-725-0325
CA	Avnet Costa Mesa	714-754-6111
CA	Bell Industries Roseville	916-969-3100
CA	Schweber Elec Sacramento	916-929-9732
CA	Zeus West Anaheim	714-632-6880
CA	Hamilton/Avnet Corp Hdqts	
	Culver City	213-558-2323
CA	Hall Mark Elec San Diego	619-268-1201
CA	Kierulff Elec San Diego	619-278-2112
CA	Schweber Santa Clara	408-946-7171
CA	Hamilton Electro Sales	
	Costa Mesa	714-641-4100
CA	Kierulff Elec Chatsworth	213-341-2211
CA	Kierulff Tustin	714-731-5711
CO	Hamilton/Avnet Englewood	303-740-1000
CO	Kierulff Elec Denver	303-790-4444
CT	Schweber Elec Danbury	203-922-3500
CT	Hamilton/Avnet Danbury	203-797-2800
CT	Pioneer-Harvey Elect Norwalk	203-853-1515
FL	Hamilton/Avnet Ft Lauderdale	305-971-2900
FL	Schweber/Elec Hollywood	305-927-0511
FL	Hall-Mark Elec Orlando	305-855-4020
FL	Hamilton/Avnet St Petersburg	813-576-3930
FL	Kierulff Elec St Petersburg	813-576-1966
FL	Schweber Elec Alamonte Springs	305-331-7555
FL	Kierulff Ft Lauderdale	305-486-4004
GA	Hamilton/Avnet Norcross	404-447-7507
GA	Hall-Mark Norcross	404-447-8000
GA	Pioneer/Atlanta Norcross	404-448-1711
GA	Kierulff Norcross	404-447-5252

IL	Newark Elec Chicago	312-784-5100
IL	Schweber Elec Elk Grove Vlg	312-364-3770
IL	Hamilton/Avnet Bensenville	312-860-7700
IL	Pioneer/Standard Elk Grove Vlg	312-437-9680
IL	Bell Ind Chicago	312-982-9210
IL	Kierulff Elec Elk Grove Vlg	312-640-0200
IN	Graham Elec Sply Indpls	317-634-8208
IN	Hamilton/Avnet Indpls	317-844-9333
IA	Schweber Elec Cedar Rapids	319-373-1417
KS	Hamilton/Avnet Overland Park	913-888-8900
KS	Hall-Mark Elec Lenexa	913-888-4747
MD	Pioneer Technologies	
	Gaithersburg	301-921-0660
MD	Hamilton/Avnet Columbia	301-995-3500
MD	Schweber Elec Gaithersburg	301-840-5900
MD	Hall-Mark Elec Baltimore	301-796-9300
MD	Kierulff Baltimore	301-636-5800
MA	Kierulff Elec Billerica	617-667-8331
MA	Schweber Elec Bedford	617-275-5100
MA	Hamilton/Avnet Woburn	617-273-7500
MA	Lionex Corp Wilmington	617-657-5170
MI	Hamilton/Avnet Livonia	313-522-4700
MI	Pioneer Livonia	313-525-1800
MI	Schweber Livonia	313-525-8100
MI	Hamilton/Avnet Grand Rapids	616-243-8805
MN	Schweber Elec Edina	612-941-5280
MN	Kierulff Elec Edina	612-941-7500
MN	Hamilton/Avnet Minnetonka	612-932-0600
MN	Hall-Mark Elec Bloomington	612-854-3223
MO	Hamilton/Avnet Earth City	314-444-1200
MO	Kierulff Maryland Hts	314-739-0855
NJ	Hamilton/Avnet Fairfield	201-575-3390
NJ	Hamilton/Avnet Cherry Hill	609-424-0100
NJ	Schweber Elec Fairfield	201-227-7880
NJ	Pioneer Elec Pinebrook	201-575-3510
NJ	Hall-Mark Elec Cherry Hill	609-424-7300
NJ	Kierulff Elec Fairfield	201-575-6750
NM	Hamilton/Avnet Albuquerque	505-765-1500
NY	Schweber Elec Westbury	516-334-7474
NY	Zeus Components Port Chester	914-937-7400
NY	Lionex Corp Hauppauge	516-273-1660
NY	Hamilton/Avnet Rochester	716-475-9130
NY	Schweber Elec Rochester	716-424-2222
NY	Hamilton/Avnet East Syracuse	315-437-2641
NY	Hamilton/Avnet Hauppauge	516-231-9800
NC	Kierulff elec Raleigh	919-872-8410
NC	Hamilton/Avnet Raleigh	919-829-8030
OH	Schweber Elec Beachwood	216-464-2970
OH	Hamilton/Avnet Centerville	513-439-6700
OH	Pioneer Dayton	513-236-9900
OH	Hamilton/Avnet Cleveland	216-831-3500
OH	Kierulff Cleveland	216-587-6558
OK	Kierulff Dayton	513-439-0030
OK	Hall-Mark Elec Tulsa	918-665-3200
OK	Kierulff Elec Tulsa	918-252-7537
OK	Schweber Elec Tulsa	918-622-8000
OR	Almac Elec Corp Beaverton	503-641-9070
OR	Hamilton/Avnet Elect Lake Oswego	503-635-8850
OR	Kierulff Elec Portland	503-641-9150
PA	Pioneer/Delaware Valley Horsham	215-674-4000
PA	Schweber Elec Horsham	215-441-0600
PA	Schweber Elec Pittsburgh	412-782-1600
TX	Hall-Mark Corp Dallas	214-343-5000
TX	Hall-Mark Elec Austin	512-258-8848
TX	Hamilton/Avnet Irving	214-659-4111
TX	Schweber Elec Dallas	214-661-5010
TX	Hall-Mark Elec Houston	713-781-6100
TX	Hamilton/Avnet Houston	713-780-1771
TX	Schweber Elec Houston	713-784-3600
TX	Kierulff Elec Dallas	214-343-2400
TX	Kierulff Elec Houston	713-530-7030
UT	Hamilton/Avnet SLC	801-972-2800
UT	Bell Industries SLC	801-972-6969
UT	Kierulff Elec SLC	801-973-6913
WA	Almac Electronics Corp Bellevue	206-643-9932
WA	Hamilton/Avnet Bellevue	206-643-3950
WA	Kierulff Tukwila	206-575-4420
WI	Hamilton/Avnet New Berlin	414-784-4510
WI	Schweber Elec Brookfield	414-784-9020
WI	Bell Industries Waukesha	414-784-0235
WI	Kierulff Elec Waukesha	414-784-8160
FR	Varah S Calgary AB	403-276-8811
FR	C M Peterson Ltd London ON	519-434-3204
FR	Hamilton/Avnet Mississauga ON	416-677-7432
FR	Arrow Elect 1985 Ltd Montreal PQ	514-735-5511
FR	Hamilton/Avnet Ottawa ON	613-226-1700
FR	Arrow Elect 1985 Ltd Quebec City PQ	418-524-4641
FR	Hamilton/Avnet St Laurent PQ	514-335-1000
FR	Intek Elec Ltd Vancouver BC	604-324-6831
FR	Varah S Vancouver BC	604-873-3211
FR	Varah S Oakville ON	416-561-9311
FR	Future Electronics Downsview ON	416-638-4771
FR	Varah S Edmonton AB	403-461-2222

MOTOR-TRONICS INC 2142

INDUSTRIAL CT F2 VISTA
CA 92083 619-727-7430

MOTRONICS CORP RIVERSIDE

IND PARK LITTLE FALLS	
NY 13365	315-823-4050
O DEMUTH EMP 70 ENG 6 \$2,500-\$5,000K	
CO Integrated Motion Sys Englewood	303-794-7973
FL Machine Controls Altamonte Springs	305-788-6006
IL Wade Assoc Libertyville	312-680-9006
IN Control Sales Inc Beech Grove	317-786-2272
MA Motion Engineering Southborough	617-485-2144
MI Electroline Inc Livonia	313-591-2428
MN Northstar Motion & Control Co St Paul	612-770-5311
NY KLM Garner Clark Mills	315-853-6126
PA Grege Glass Assoc Pittsburgh	412-366-6664
PA Holmes Assoc Audubon	215-666-0636
TX Blackburn Assoc Dallas	214-692-8885
WA Al Smith Co Bellevue	206-746-6770
WI Schreiber-Arterburn Milwaukee	414-545-7800

MOUNTAIN WEST ALARM SUPPLY CO		
4215 N 16TH ST PHOENIX		
AZ 85016.....	602-263-8831	
ENG 1 \$1,000-\$2,500K		
MOUSER ELECTRONICS 2401 HWY 287N		
MANSFIELD TX 76063.....	817-483-0165	
J FAIRREY EMP 120 ENG 3 OVER \$10,000K		
ADV PG 68		
M-O VALVE CO LTD BROOK GREEN WKS		
LONDON ENGLAND W67PE		
TXW 23435.....	01-603-3431	
E WILLMOTT EMP 1000 ENG 150 OVER \$10,000K		
NY EEV Inc Elmsford.....	914-592-6050	
MOXNESS PRODUCTS INC 1914		
INDIANA ST RACINE WI 53405		
TXW 910-271-2396.....	414-554-5050	
T HYNES EMP 400 ENG 7 OVER \$10,000K		
MP AUDIO CORP 207 WILSON RD		
EASTON CT 06612.....	203-268-2385	
M PANEYKO EMP 11 ENG 3 \$100-\$250K		
MPC PRODUCTS CORP 7426 N LINDER		
SKOKIE IL 60077		
TXW 910-223-0838.....	312-673-8300	
EMP 350 ENG 36 OVER \$10,000K		
MPH ELECTRONICS INC 2660		
LOMA AVE S EL MONTE CA 91733		
TXW 292458.....	818-442-7818	
EMP 15 ENG 3 \$2,500-\$5,000K		
MSI DATA CORP 340 FISCHER AVE		
COSTA MESA CA 92626		
TXW 910-595-1719.....	714-549-6000	
R HOAG EMP 650 OVER \$10,000K		
MA MSI Data Newton.....	617-965-8180	
MN MSI Data Eden Prairie.....	612-941-4838	
MO MSI Data Bridgeton.....	314-291-3080	
VA MSI Data Fairfax.....	703-560-5500	
MSI ELECTRONICS INC 34-32		
57TH ST WOODSIDE NY 11377		
TXW 426407.....	718-672-6500	
A LEDERMAN EMP 24 ENG 4 \$1,000-\$2,500K		
AZ Fetty/Schoenduve San Diego.....	619-292-5136	
CA Fetty/Schoenduve Glendale.....	602-241-9009	
CA TRI-REP Palo Alto.....	415-965-1822	
CA Fetty/Schoenduve El Segundo.....	213-322-4991	
FL R C Simon Lighthouse Pt.....	305-941-2757	
IL Mesa Inc McHenry.....	815-344-2820	
IN Menze Sales Inc Ft Wayne.....	219-747-5616	
MD CSDS Inc Laurel.....	301-490-3800	
MA Stone Comp Sales Framington.....	617-875-3266	
PA Arnold Assoc Jenkintown.....	215-887-7870	
TX Eagle Marketing Richardson.....	214-238-5383	
MTE CORP 7901 W CLINTON		
MILWAUKEE WI 53223.....	414-358-5300	
R ARMANTROUT EMP 200 ENG 15 ..		
AZ EDS Tempe.....	602-438-1547	
CA El-Mar Santa Ana.....	714-547-8933	
CA Omni San Diego.....	619-268-9806	
CO C M Marketing Englewood.....	303-850-9841	
FL Southern Elctn Mktg Casselberry.....	305-831-2822	
GA Garry-Duckett Atlanta.....	404-451-3529	
IL Kettner & Assoc Mequon.....	800-533-1694	
IN Technology Marketing Ft Wayne.....	219-432-5553	
IA Palatine Engineering Cedar Rapids.....	319-365-8071	
KS Palatine Engineering Wichita.....	316-788-5521	
KY Technology Marketing Louisville.....	502-499-7808	
MD Delta III Columbia.....	301-730-4700	
MA Tom Maguire Assoc Wellesley.....	617-431-1120	
MI FAVCO Birmingham.....	313-644-0173	
MN Kettner & Assoc Bloomington.....	612-884-4343	
MO Palatine Engineering Hazelwood.....	314-839-0800	
NJ BGR Assoc Marlton.....	609-983-1020	
NY Ballou Inc Ridgewood.....	201-444-6990	
OH Electro-Com Dayton.....	513-898-5140	
OK Components Inc Tulsa.....	918-583-9149	
TX R F Kimball Co Richardson.....	214-231-3447	
WA R Kripper Mukilteo.....	206-743-3579	
WI Kettner & Assoc Milwaukee.....	414-351-3584	
MTI CORP 55 INDUSTRIAL AVE		
IVYLAND PA 18974 TXW 831457.....	215-355-3110	
G GOELZ EMP 175 ENG 11 \$5,000-\$10,000K		
M-TRON INDUSTRIES INC 100		
DOUGLAS ST BOX 60 YANKTON		
SD 57078 TXW 910-668-3603.....	605-665-9321	
M HUENNEKENS EMP 10 ENG 6 \$5,000-\$10,000K		
AL 20th Century Huntsville.....	205-533-9281	
CA SMI Santa Clara.....	408-986-1610	
CA S C Cubed Tustin.....	714-731-9206	
CA Bestronics San Diego.....	619-693-1111	
CO Simpson Assoc Littleton.....	303-794-8381	
CT Phoenix Sales Ridgfield.....	203-438-9644	
FL G F Bohman Apopka.....	305-886-1882	
IL Micro Sales Arlington Hts.....	312-956-1000	
IN Given Corp Ft Wayne.....	219-432-5585	
IA SPS Assoc Des Moines.....	515-225-0607	
KS SPS Assoc Olathe.....	913-764-4460	
MD Marketing Tech Inc Ellicott City.....	301-862-1882	
MA Comptech Inc Tyngsboro.....	617-649-3030	
MI Rathburg Assoc Detroit.....	313-882-1717	
MN Comtek Sales Bloomington.....	612-888-7011	
NJ BGR Marlton.....	609-983-1020	
NJ Sprung/Nussbaum Englewood.....	201-569-5666	
NY Ontec Sales Rochester.....	716-644-8636	
NC ADI Smithfield.....	919-934-8136	
OH Lyons Corp Dayton.....	513-278-0714	
TX Mech-Tron Marketing Dallas.....	214-343-3786	
WA Quadra Sales Redmond.....	206-883-3550	

DISTRIBUTORS		
AL Pioneer Elect Huntsville.....	205-837-9300	
AZ Sterling Elect Phoenix.....	602-268-2121	
AZ Bell Industries Tempe.....	602-966-7800	
AZ Wyle Labs Phoenix.....	602-866-2888	
AZ Camco Elect Phoenix.....	602-269-6201	
AR Carlton-Bates Little Rock.....	501-562-9100	
CA Wyle Dist Santa Clara.....	408-727-2500	
CA Image Elect Tustin.....	714-730-0303	
CA Wyle Labs San Diego.....	619-565-9171	
CA Ryno Elect San Diego.....	619-453-8430	
CA Wyle Labs Irvine.....	714-863-9953	
CA Ryno Elect Orange.....	714-637-0200	
CA Capacitors Unltd San Jose.....	408-946-7676	
CA Image Elect Agoura.....	818-707-0911	
CA Pyramid Elect Santa Clara.....	408-727-9810	
CA Pyramid Elect Fullerton.....	714-773-0781	
CA Wyle Labs Rancho Cordova.....	916-638-5282	
CA Wyle Labs Ed Segundo.....	213-322-8100	
CA Wyle Labs Calabasas.....	818-880-9000	
CO Bell Indus Wheatridge.....	303-424-1985	
CO Wyle Labs Thornton.....	303-457-9953	
CO Sterling Elect Englewood.....	303-796-7338	
CT JV Elect East Haven.....	203-469-2321	
CT Pioneer Elect Norwalk.....	203-853-1515	
CT Mid-State Elect Wallingford.....	203-265-9900	
FL Pioneer Elect Altamonte Spgs.....	305-834-9090	
FL Pioneer Elect Deerfield Bch.....	305-428-8877	
GA Pioneer Elect Norcross.....	404-448-1711	
IL Pioneer/Chicago Elk Grove.....	312-437-9680	
IN Pioneer Elect Indpls.....	317-849-7930	
IN Advent Elect Indpls.....	317-872-4910	
IA Advent Elect Cedar Rapids.....	319-363-0221	
ME RS Elect Roseville.....	313-779-2450	
MD Resco/Wash Beltsville.....	301-937-9100	
MD Pioneer Elect Gaithersburg.....	301-921-0660	
MD Resco/Wash Baltimore.....	301-529-0500	
MA JV Elect Wilmington.....	617-273-4300	
MA Pioneer Elect Lexington.....	617-861-9200	
MA 1st Frequency Woburn.....	617-935-3885	
MI Pioneer Elect Livonia.....	313-525-1800	
MI RS Elect Livonia.....	313-525-1155	
MI Advent Elect Farmington Hills.....	313-477-1650	
MI RS Elect Grand Rapids.....	616-241-3483	
MI RS Elect Wyandotte.....	313-282-5880	
MI RS Elect Kalamazoo.....	616-381-5470	
MN Stark Elect Mnpls.....	612-333-3361	
MN Pioneer Elect Minnetonka.....	612-935-5444	
MN Minntech Elect Hibbing.....	218-262-5228	
MO Olive Elect St Louis.....	314-426-4500	
MO Ric-tronics St Louis.....	314-576-9816	
MO Olive Elect Raytown.....	816-356-6916	
NJ PAC Elect Mt Laurel.....	609-387-3549	
NJ General Components West Berlin.....	609-768-6767	
NJ Pioneer Elect Pinebrook.....	201-675-3510	
NM Sterling Elect Albuquerque.....	505-884-1900	
NY Milgray Elect Farmingdale.....	516-420-9800	
NY Pioneer Elect Wadbury.....	516-921-8700	
NY Pioneer Elect Vestal.....	607-748-8211	
NY Key Components Bohemia.....	516-567-7500	
NY Pioneer Elect Fairport.....	716-381-7070	
NC Pioneer Elect Charlotte.....	404-527-8188	
NC Century Elect Raleigh.....	919-872-2203	
NC Q C Southeast Raleigh.....	919-876-7767	
OH Pioneer Elect Cleveland.....	216-587-3600	
OH Pioneer Elect Dayton.....	513-236-9900	
OH Repton Worthington.....	614-436-6675	
OH RS Elect Maumee.....	419-893-0721	
OK Radio Inc Tulsa.....	918-587-9123	
OK Altair Tulsa.....	918-252-5781	
OK Radio Inc Okla City.....	405-789-0741	
OR Wyle Distr Hillsboro.....	503-640-6000	
PA Century Elect Norristown.....	215-631-5400	
TX Altair Richardson.....	214-231-5166	
TX Wyle Distr Richardson.....	214-235-9953	
TX Wyle Distr Austin.....	512-834-9957	
UT Wyle Distr SLC.....	801-974-9953	
UT Standard Supply SLC.....	801-486-3371	
VA Sterling Elect Richmond.....	804-226-2190	
WI Marsh Elect Milwaukee.....	414-475-6000	
MTS CO INC 1114 N ARMANDO ST		
ANAHEIM CA 92805		
TXW 910-591-1711.....	714-630-4520	
M BERGQUIST		
MTS SYSTEMS CORP BOX 24012		
MINNEAPOLIS MN 55424		
TXW 910-576-2976.....	612-937-4000	
J BEAL EMP 1000 ENG 300 OVER \$10,000K		
MU-DEL ELECTRONICS INC		
2426 LINDEN LA SILVER SPRING		
MD 20910 TXW 908041.....	301-587-6087	
H BLUM EMP 8 ENG 3 \$250-\$500K		
AL Guest Assoc Box 2236 Huntsville.....	205-534-2487	
CA RF Assoc Palo Alto.....	415-494-3331	
CA RF Assoc 1621 Pontius LA.....	213-478-1586	
CO Grady Moore Assoc Boulder.....	303-494-3351	
NM Grady Moore Assoc Albuq.....	505-262-1416	
TX John T Houston Assoc Arlington.....	817-265-2931	
UT Grady Moore Assoc SLC.....	801-359-3504	
MUELLER ELECTRIC CO 1583		
E 31 ST DEPT 30 CLEVELAND		
OH 44114.....	216-771-5225	
J WISNESKI EMP 100 ENG 1		
AL Mfg Sales & Mktg Sys Hattiesburg.....	601-264-4755	
CA Osheski & Assoc Campbell.....	408-378-6003	
CO Norris & Warren Co Cold Springs.....	303-576-8697	
GA W J Dugas Stone Mountain.....	404-469-5862	
IL Ray Klipp Assoc Libertyville.....	312-367-5675	
MI Microtronics Inc Shawnee Mission.....	913-262-1444	
MA Keene Sales Co Lynn.....	617-595-2300	
MI Hilltronics Inc Ferndale.....	313-935-5556	
NJ Champion Elctn Sales Co Medford.....	609-654-0475	
NY ROI Sales Co Rockaway.....	201-627-8879	
NC R Huse Ft Lawn.....	803-872-4454	
OR Jud LeBrun Co Portland.....	503-244-6805	
TN A A Apple White House.....	615-672-4498	

FR	Salles & Co Box 5333 San Juan PR	
FR	West Indies Sales Ltd 7360 NW 66 St Miami FL	
MUIRHEAD INC 1101 BRISTOL RD		
	MOUNTAINSIDE NJ 07092	
	TXW 13-8275	201-233-6010
	R CLARK EMP 1000 ENG 150 OVER \$10,000K	
MULTICORE SOLDERS CANTIAGUE		
	ROCK RD WESTBURY NY 11590	
	TXW 510-222-5185	516-334-7997
	M BARANICK EMP 75	
MULTI-FLEX SEALS INC 16		
	E LAFAYETTE ST HACKENSACK	
	NJ 07601	201-487-8080
	S GONZALEZ EMP 25 ENG 2 \$1,000-\$2,500K	
AZ	Engineering Sales Assoc	
	Scottsdale	602 945-5781
CA	Spectrum Assoc Santa Ana	213-323-0603
CA	Nickerson Gray & Assos Los Altos	415-941-5777
CT	Abbott-Allison Co Meriden	203 BE 7-9232
FL	G F Bohman Assoc Apopka	305-886-1883
IL	Joe Popp Sales Co Chicago	261-7423
IN	Menze Sales Fort Wayne	747-5616
MN	MR/L St Paul	644-1577
MO	Larco Sales Co Kirkwood	YO 6-8511
NJ	Ken Randall Co Collingswood	609 854-3323
NY	Levison Sales Co Valley Stream	LO 1-9696
OH	John Olsen Co Cincinnati	513-574-7711
TX	STASCO Dallas	214-239-4517
WA	DMS/Vantage Seattle	206-SU4-6800
FR	Banke Elctns Ltd Scarborough ON	425-1611
DISTRIBUTORS		
CA	Electric Switches LA	213-660-1310
CA	Ed Warburg Co LA	213-627-1126
CA	Pacific Switch Controls Van Nuys	213-873-4802
CT	Atlantic Switch Controls	
	W Hartford	203-523-5259
FL	Switch Controls Miami	305-885-6727
IL	Conectrix Inc Box 806 Wheaton	
NC	Kirkman Elect Winston Salem	919-722-9131
TX	Allied Elect Box 1544 Fort Worth	
	Texaswitch 2942 Congressman Dallas	
MULTIFORM DESICCANT PRODUCTS INC		
	960 BUSTI AVE BUFFALO	
	NY 14213 TXW 91513	716-883-8900
	S RAY EMP 140 ENG 7	
MULTI PLATE CO INC 2362		
	LU FIELD RD DALLAS TX 75229	214-243-1557
	B COATES EMP 50 ENG 1 \$2,500-\$5,000K	
MULTIPEX TECHNOLOGY INC		
	251 IMPERIAL HWY FULLERTON	
	CA 92635	714-680-5848
	C FOYE \$500-\$1,000K	
CA	Pro Rep Co Foster City	415-570-5055
CA	Vinger Marketing Anaheim	714-630-8120
CO	Connors Co Broomfield	303-466-9628
FL	TG Assoc Bradenton	813-792-7899
GA	Cavendish & Assoc Atlanta	404-449-5104
IL	Wassermann Assoc Wilmette	312-256-3566
IN	Green Wissler Sales Co Indpls	317-872-9981
MD	Sales & Mktg Group Wheaton	301-942-2092
MA	FM Valenti Inc Nahant	617-592-5300
MI	Firaneck Sales Pontiac	313-373-9595
MN	Kodo Assoc Mnpls	612-881-1255
NY	LSM Marketing Phelps	315-548-8991
NY	Solid State Mktg Huntington	516-271-1583
OH	Benchmark Sales & Mktg Columbus	614-861-2070
PA	Lowery Assoc Broomall	215-356-5300
TX	Buck Roger & Assoc McAllen	512-682-0398
WA	Pacnor Marketing Lynnwood	206-771-6016
DISTRIBUTORS		
CA	Crest Electronics LA	213-731-1105
CA	American Elect Supply Hollywood	213-464-1144
CA	Hurley Elect Englewood	213-679-2278
CA	Muntz Electronics Van Nuys	818-782-7515
CA	Zenith Dist San Francisco	415-621-8545
CA	Kittlevision Santa Rosa	707-585-3214
CO	Alpha-Omega Elect Denver	303-571-1111
IL	Consumer Satellite Sys Peoria	309-692-4630
IN	Consumer Satellite Sys	
	Noblesville	317-845-4400
KY	Consumer Satellite Sys Lexington	606-268-3364
MI	Consumer Satellite Sys	
	Grand Rapids	616-698-9881
NV	Hurley Elect Las Vegas	712-384-5666
NY	Centennial Communications	
	Yonkers	914-476-2100
NY	Fordham Radio Hauppauge	800-645-9518
ND	Johnson Entrps Jamestown	701-252-1431
OK	Kenrich Elect Okla City	405-722-2730
PA	Resco Electronics Phila	215-743-6700
TN	B A Pargh Co Nashville	615-366-3000
TX	Electrotex Dallas	214-234-0453
TX	Vidco Elect Longview	214-757-4911
TX	Electrotex Houston	713-526-3456
MULTIPLIER INDUSTRIES CORP		
	464 S 10 AVE BOX 29 MT VERNON	
	NY 10550 TXW 220-883	914-699-0990
	J SULLIVAN EMP 54 ENG 2 \$2,500-\$5,000K	
CA	J Daniel Co Orinda	714-980-3244
CO	Electro Tek Sales Aurora	303-343-8937
GA	Secom Systems Chamblee	404-455-0672
ID	Alster Communications Boise	208-362-1272
IN	New/Era Sales Carmel	317-844-4530
MI	Webster Assoc Rochester	313-375-0420
NJ	Baum & Epstein Assoc Englewood	201-569-7600
NY	LEDnard D Allen Inc Syracuse	315-458-7477
PA	Stinson Assoc Wynnewood	215-896-3737
TX	Horizon Engineering Rockwall	214-226-4747

MULTI PRODUCTS INTERNATIONAL		
218 LITTLE FALLS RD		
CADDIS GROVE NJ 07009		
TWX 219289		
L GRAY EMP 25 ENG 4 \$5,000-\$10,000		
ADV PG 66		
AL	Electronic Mfrs Agents	201-239-8183
AZ	Huntsville	205-830-4030
AZ	Semi Systems Inc Scottsdale	602-997-1151
CA	HMC Inc Temple City	818-285-0485
CA	Kottmeier Assoc Campbell	408-866-5153
FL	PC Electronic Sales Coral Springs	305-755-3980
GA	Electronic Mfrs Agents Atlanta	404-329-0530
IL	Esco Assoc Chicago	312-763-0800
IN	C-S Elctn Sales Frankfort	317-659-1874
KS	Electri-Rep Inc Overland Pk	913-649-2168
MD	Eastern Tech Corp Columbia	301-995-0202
MD	Macinnis Co Norwood	617-762-8090
MI	RC Nordstrom & Co Southfield	313-559-7373
MI	Proud Industries St Paul	612-646-9428
NJ	Legtronic Assoc Cedar Grove	201-239-4098
NJ	Legtronic Assoc Cedar Grove NJ	201-239-4098
TN	Electronic Mfrs Agents Donelson	615-883-1414
TX	Erickson Sales Dallas	214-739-5833
WA	Eitech Inc Bellevue	206-643-4330

DISTRIBUTORS		
CA	Passive Components Chatsworth	818-341-1745

MULTI SOLUTIONS INC 123		
FRANKLIN CORNER RD		
LAWRENCEVILLE NJ 08648		
EMP 32 ENG 13		
		609-896-4100

MULTITECH ELECTRONICS INC		
195 W EL CAMINO REAL		
SUNNYVALE CA 94086 TWX 755042		
M TSI EMP 20 ENG 5 \$5,000-\$10,000		
		408-773-8400

DISTRIBUTORS		
AZ	AZ Software Phoenix	602-246-2222
CA	Computech San Jose	408-435-1050
CA	Tara Enterp Santa Monica	818-995-6225
IL	Kaltronics Northbrook	312-291-1220
ME	Boot Camp Inc Calais	207-454-2267
MA	QRP Gardner	617-632-1269
NE	Specialty House Omaha	402-896-1516
NY	Keystone Distr Armonk	914-241-7121
NY	SSE Products Elmont	516-872-9001
PA	People & Technology Philadelphia	215-877-2600
TX	Computer Mate Richardson	214-669-9370

MULTI-TECH INDUSTRIES INC		
64 S MAIN ST MARLBORO		
NJ 07746		
J BERNARD ENG 1		
		201-431-0550

MULTI-TECH SYSTEMS INC		
82 SECOND AVE SE NEW BRIGHTON		
MN 55112 TWX 910-532-3610		
P HANLON EMP 70 ENG 5 \$5,000-\$10,000		
		612-631-3550

DISTRIBUTORS		
AL	J L Highsmith & Co Huntsville	205-536-6666
CA	American Computer Prods San Diego	619-292-8242
CA	Newport Components Newport Beach	714-650-8592
CO	Inland Assoc Denver	303-333-2851
FL	Redlaw Corp Ft Lauderdale	305-791-5459
GA	David Brown Assoc Stone Mtn	404-491-3800
IL	Mac Neil Elk Grove Village	312-952-8300
IN	Key Comm Service New Albany	812-944-3865
KS	Inland Assoc Overland Park	913-764-7977
MD	Advanced Data Products Gaithersburg	301-424-9490
MA	IMF Sales Assoc Wakefield	617-245-8900
MI	Midcom Communications Southfield	313-353-5696
MN	On-Line Intl Mpls	612-888-4444
MO	Inland Assoc Manchester	314-391-6901
NY	Computer Source Intl Central Islip	516-348-7474
NY	KBL Marketing Brentwood	516-434-9010
NC	J L Highsmith & Co Charlotte	704-527-2382
PA	QED Sales Willow Grove	215-657-5600
TX	Technical Concepts Richardson	214-783-9330
VA	J L Highsmith & Co Richmond	804-745-5555
WA	NIDI Northwest Bellevue	206-746-6032

MULTIWIRE DIV KOLLMORGEN CORP		
320 S SERVICE RD MELVILLE		
NY 11747 TWX 510-223-0609		
J ANDERSON EMP 1000 ENG 190 OVER \$10,000		
		516-391-4100
CA	D Renk Anaheim	714-632-7770
CA	L Kovacevic San Jose	408-298-8428
CT	L Michiewicz Stamford	516-933-8300
FL	G Cody New Port Richey	813-868-2225
IL	D Hinz Schamburg	312-397-1813
MD	P St Andre Gaithersburg	301-948-0035
MO	G Birmingham Mpls	612-560-8330
NY	T Wilbur Rochester	716-328-8340
NC	J Kushner Raleigh	919-846-8992
PA	L Bolgosano Blue Bell	215-646-4122
TX	C Magee Richardson	214-234-2873

MUPAC CORP 10 MUPAC DR BROCKTON		
MA 02401 TWX 710-345-8485		
R VOSKIAN EMP 130 ENG 10 \$5,000-\$10,000		
ADV PG 314		
AL	Macro Mktg Assoc Huntsville	205-883-9630
AZ	Piper Sales Co Tempe	602-949-0048
CA	Mupac West West Covina	213-960-3042
CA	Interconnect Sales Santa Clara	408-980-1166
CA	Haddon Assoc San Diego	619-745-6600
CA	Gemini Assoc Los Alamitos	714-594-9618
FL	datatronix Longwood	305-774-0014
IL	Micro-Tex Inc Hoffman Estates	312-382-3001
IN	Hoyle Assoc Fort Wayne	219-485-6433
KS	Panatek Tech Sales Assoc Leawood	913-649-7999
MD	Rep-Tron Inc Baltimore	301-799-7490
MA	Daner-Hayes Inc Wayland	617-655-0888
MN	Loren Green Assoc Mpls	612-571-6666
NM	Piper Sales Co Albuquerque	505-883-9090
NY	Labtronics Syracuse	515-455-7314
NY	F & F Assoc Great Neck	516-482-4080
NC	Engineering Devices Cary	919-469-9323
OH	Applied Data Management Cincinnati	513-579-8108
OK	Lear Assoc Tulsa	918-665-7700
OR	Comtec Portland	503-227-2111
PA	RJL Norristown	215-631-1414
TX	Lear Assoc Richardson	214-231-5388
TX	Lear Assoc Houston	713-488-7893
WA	Comtec Bellevue	206-465-1188

DISTRIBUTORS		
CT	Sager Elec Supply Wallingford	203-265-4600
MA	Sager Elec Supply Hingham	617-749-6700

MURATA ERIE NORTH AMERICA INC		
2200 LAKE PARK DR SMYRNA		
GA 30080 TWX 810-763-4723		
J DRISCOLL EMP 2000 ENG 100 OVER \$10,000		
ADV PGS 9,67,77,149,190,327,342,401		
AL	Jack Harvey Assoc Huntsville	205-536-4414
AZ	Murata Erie Scottsdale	602-941-2667
CA	Recht Assoc Los Altos	415-954-6321
CA	Murata Erie Santa Clara	408-496-0177
CA	Murata Erie Santa Ana	714-835-4822
CO	Murata Erie Englewood	303-779-5461
FL	Innovative Mktg Ft Lauderdale	305-485-6889
FL	Murata Erie Maitland	305-644-0954
IL	Murata Erie Park Ridge	312-696-0800
IN	Jack Harvey Assoc Indpls	317-872-1030
IN	Murata Erie Ft Wayne	219-484-1528
IN	Jack Harvey Assoc Kokomo	317-453-4260
KY	Jack Harvey Assoc Prospect	502-228-4100
MD	Murata Erie Columbia	301-992-6812
MA	Murata Erie Wakefield	617-245-7880
MI	Murata Erie Livonia	313-471-9004
MI	Jack Harvey Assoc Southfield	313-589-4477
MN	Murata Erie Plymouth	612-553-1594
NJ	Radix Inc Springfield	201-467-4970
NC	Murata Erie Greensboro	919-299-1905
OH	Murata Erie Worthington	614-885-3988
OR	Murata Erie Beaverton	503-646-4973
TN	Jack Harvey Assoc Knoxville	615-524-7075
TX	Murata Erie Richardson	214-238-8211
WA	Murata Erie Bellevue	206-454-9699
FR	Murata Erie Mississauga ON	416-676-9484
FR	Murata Erie Hato Rey PR	809-754-0375

DISTRIBUTORS		
AZ	Weatherford Elect Phoenix	602-272-7144
CA	Shelley Elect San Diego	714-453-7133
CA	Capsco Sunnyvale	408-734-3020
CA	National Capacitor Garden Grove	213-598-9611
CA	R V Weatherford Co Glendale	213-849-3451
CA	Arrow Elect Hayward	415-487-3000
CA	Arrow Elect Sacramento	916-925-7456
CA	Arrow Elect Sunnyvale	408-745-6600
CA	Time Elect Anaheim	714-937-0911
CA	Time Elect Sunnyvale	408-734-9888
CA	Pyramid Elect Fullerton	714-773-0781
CA	Pyramid Elect Santa Clara	408-727-1800
CA	Shelley Elect San Jose	408-942-9111
CO	Diplomat Elect Wheatridge	303-422-9229
CO	RV Weatherford Denver	303-428-6900
CO	Shelley Elect Boulder	303-442-2718
CT	Time Elect Cheshire	203-271-3200
FL	Time Elect Ft Lauderdale	305-974-4800
GA	Arrow Elect Norcross	404-449-8252
GA	Time Elect Atlanta	404-351-3545
GA	Milgray Elect Atlanta	800-282-6339
IL	Newark Elect Willowbrook	312-638-4411
IL	Advent Elect Rosemont	312-297-6200
IN	Advent Elect Indpls	317-872-4910
IN	Newark Elect Indpls	317-872-7070
MD	Milgray Elect Columbia	301-468-6400
MA	Time Elect Peabody	617-935-8080
MA	Newark Elect Woburn	617-935-8566
MI	RM Elect Grand Rapids	616-241-6681
MN	Joe Co Hopkins	612-935-6202
MN	Arrow Elect Edina	612-930-1800
MN	Time Elect Bloomington	612-944-9192
MN	Time Elect Mpls	612-944-9192
MO	Arrow Elect St Louis	314-567-6888
MO	Time Elect St Louis	314-391-6444
NJ	Tonar Industries Rockaway	201-586-9000

NJ	Arrow Elect Marlton	609-596-8000
NM	Arrow Elect Albuquerque	505-243-4566
NY	Time Elect East Syracuse	516-273-0100
NY	Newark Elect Rochester	716-473-6600
OH	Electronic Mktg Svcs Columbus	614-299-4161
OH	Arrow Elect Columbus	614-885-8362
OR	Newark Elect Cincinnati	513-771-9700
OR	Time Elect Portland	503-684-3780
PA	Arrow Elect Monroeville	412-856-7000
PA	Time Elect King of Prussia	215-359-1200
TX	Arrow Elect Carrollton	214-380-6464
TX	Arrow Elect Houston	713-530-4700
TX	Diplomat Elect Austin	512-452-5254
TX	Diplomat Elect Houston	713-975-8447
WA	Arrow Elect Brookfield	414-764-6600
FR	Future Elect Montreal PQ	514-694-7777
FR	Carston Elect Scarborough	416-495-9995

MUSHIELD CO 121 MADISON ST BOX W		
MALDEN MA 02148		
D GRILLI EMP 10 ENG 2 \$500-\$1,000K		
		617-321-4410
CA	Yarborough Sales LA	213-254-5105
CA	Technology Systems San Rafael	415-459-2774
CO	McCarthy Co Littleton	303-773-0643
GA	Biondo Assoc Atlanta	404-394-9640
MA	Shain Assoc Newtown	617-965-3060
MN	Wendel Lee Assoc Edina	612-831-5056
OH	Agnat Assoc Akron	216-535-4396
PA	Jase Assoc Orwigsburg	717-366-1109
TX	Wessco Inc Cypress	713-469-7814

MUTRON CORP 846 SUMMER ST		
BROCKTON MA 02402		
TWX 710-345-0194		
A LARGE EMP 100 ENG 4		
		617-364-2442

MVP ELECTRONICS BOX 5534 ORANGE		
CA 92667 TWX 678401		
M VANDER PLAATS EMP 4 ENG 1 \$100-\$250K		
		714-639-9246

MWS WIRE INDUSTRIES 31200		
CEDAR VALLEY DR WESTLAKE		
VILLAGE CA 91362		
TWX 910-336-1689		
M MCCLURE EMP 42 ENG 4		
		818-991-8553

MYKROY/MYCALEX 125 CLIFTON BLVD		
CLIFTON NJ 07011		
J LIKER EMP 50 ENG 4		
		201-779-8866

MYLEE DIGITAL SCIENCES		
155 WELDON PKWY MARYLAND HTS		
MO 63043		
R HENDRIX EMP 71 ENG 15 \$2,500-\$5,000K		
		314-567-3420

NADY SYSTEMS INC CONSUMER		
ELCOTNS DIV 1145 65 ST OAKLAND		
CA 94608 TWX 470747		
L BRENNER EMP 80 ENG 4		
		415-652-2411

NALGENE INDUSTRIAL DEPT NALGE CO		
75 PANORAMA CRK DR BOX 365		
ROCHESTER NY 14602		
TWX 97-8242		
M MCGILL EMP 375 ENG 24		
		716-586-8800
CA	L Rodrigues San Juan Capistrano	714-978-2626
FL	M Sonnenfeldt Atlanta	404-998-3367
NJ	G Gossett Red Bank	201-530-8609
NY	V Toscano Pittsford	716-586-8800
TX	J Spratlin Dallas	214-340-9331
WI	C Lingsweller Milwaukee	414-351-2840

NAMCO CONTROLS DIV ACME-CLEVELAND		
CORP 7567 TYLER BLVD MENTOR		
OH 44060 TWX 24-1556		
EMP 120 \$5,000-\$10,000K		
		216-946-9900

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NJ	Diplomat Electronics Totowa	201-785-1830
NJ	Sterling Electronics Perth Amboy	201-442-8000
NJ	General Radio Camden	609-964-8560
NJ	J-Mar Electronics Clifton	201-772-6400
NJ	Marshall Industries Fairfield	201-882-0320
NJ	Milgray Electronics Marlton	609-983-5010
NM	Sterling Electronics Albuquerque	505-884-1900
NY	Diplomat Electronics Melville	516-454-6400
NY	Marshall Industries Hauppauge	516-273-2424
NY	Milgray Electronics Pittsford	716-385-9330
NY	Rochester Radio Supply Rochester	716-454-7800
NY	SAI Farmingdale	516-293-2710
NC	Resco Raleigh	919-781-5700
OH	Electronic Marketing Columbus	614-299-4161
OH	Marshall Industries Dayton	513-236-8088
OH	Reptron Electronics Independence	216-447-1520
OH	Reptron Electronics Columbus	614-436-6675
OK	Sterling Electronics Tulsa	918-663-2410
OR	Moore Electronics Lake Oswego	503-684-3100
PA	Almo Electronics Phila	215-698-4000
TX	Active Comp Technology Houston	713-496-4000
TX	Marshall Industries Dallas	214-233-5200
TX	Sterling Electronics Dallas	214-243-1600
UT	A C T Rocky Mtn SLC	801-487-8131
VA	Sterling Electronics Richmond	804-226-2190
WA	Bel Industries Bellevue	206-747-1515
WA	IEC JACO Bellevue	206-455-2727
WA	Marshall Industries Tukwila	206-575-3120
WI	Marsh Electronics Milwaukee	414-475-6000
WI	Nep Electronics New Berlin	414-784-4420
WI	RM Electronics New Berlin	414-785-9100
FR	MEMCO Surrey BC	604-536-4243
FR	RAE Indus Electronics Burnaby BC	604-291-8866
FR	Carsten Electronics Ottawa ON	613-729-5138
FR	Future Electronics Pte Claire PQ	514-694-7710
FR	Carsten Electronics St Laurent PQ	514-334-8321

NECO HAMMOND INC 600 SOUTH BLVD		
BARABOO WI 53913 TWX 466643.....		
	608-356-3921	
K HUBATCH EMP 150 ENG 5 \$5,000-\$10,000K		
MA	A R Booth Canton.....	617-828-4556
ND	Border States Fargo.....	701-293-5833

NC	Nelson Stud Welding Winston Salem	919-724-2262
OH	Nelson Stud Welding Cleveland	216-243-5252
OK	Nelson Stud Welding Tulsa	918-627-3487
PA	Nelson Stud Welding Pittsburgh	412-922-2515
SC	Nelson Stud Welding Columbia	803-798-0415
TN	Nelson Stud Welding Memphis	901-452-6770
TX	Nelson Stud Welding Irving	214-721-9055
UT	Nelson Stud Welding SLC	801-322-4122
WA	Nelson Stud Welding Seattle	206-872-0195
WI	Nelson Stud Welding Milwaukee	414-771-4093
FR	Nelson Stud Welding Rexdale ON	416-675-3010

NESCO BATTERY SYS DIV NATL ELECTRO-SALES CORP 7110 GERALD AVE VAN NUYS CA 91406	818-781-0505
K ROTHMAN EMP 20 ENG 2 \$2,500-\$5,000K	
CA Natl Electro Sales Santa Ana	714-541-6181
CA C-Tronics San Diego	619-5700

NESHAMINY ELECTRONIC CORP EDISON-FURLONG RD FURLONG PA 18925	215-794-7411
P KLEIN EMP 140 ENG 3 \$2,500-\$5,000K	
NJ Thomas Assoc Belmar	609-933-2600
NY Murcan Sales Corp Syracuse	315-GR4-4889

NES INC 3003 WAKEFIELD DR CARPENTERSVILLE IL 60110	
TXW 910-651-3190	312-426-5900
D VOELKER EMP 65 ENG 29 OVER \$10,000K	
CA Priz Co Palo Alto	415-326-4333
IN Electro Development Engrg Brookfield	317-547-5274
IA Jim Ottis & Assoc Moline	309-762-9311
LA Control Sys Consultants Baton Rouge	504-292-1462
NY L-Tron Assoc Rochester	716-634-4410
OH Anderson - Bolds Cleveland	216-229-4700
PA Wistex Wayne	215-687-5930
WI Bll Brookfield	414-783-5252

DISTRIBUTORS	
IL Pacific Indicator Oak Park	312-261-1330
IL Norman Equipment Co Bridgeview	312-430-4000
KY Main Elec Louisville	502-587-6511

NETWORK RESEARCH CORP 2380 N ROSE AVE OXNARD CA 90330	805-485-2700
K GRAHAM EMP 38 ENG 8	

NEW ENGLAND ELECTRIC WIRE CORP 365 MAIN ST LISBON NH 03585	603-838-6629
C MCKENZIE EMP 150 ENG 4 \$5,000-\$10,000K	
CA Cooner Sales Co Chatsworth	213-882-8311
IL Scott Assoc Elmhurst	312-279-5681
NC Over & Over Inc Charlotte	704-366-8601

NEW ENGLAND INSTRUMENT CO KENDALL LN NATICK MA 01760	
TXW 710-346-0398	617-875-9711
J DYNE EMP 600 ENG 30 OVER \$10,000K	
AZ S W O'Donnell Phoenix	602-994-9542
CA O'Donnell Assoc Torrance	213-323-9243
CA O'Donnell Assoc Palo Alto	415-327-9260
CO Electrodyne Denver	303-757-7679
CT Underwood Sales Wethersfield	203-563-3046
FL OEM Mktg Corp Orlando	305-299-1000
IL J Popp Sales Co Oak Park	312-626-3711
KS Penzner-Mankus Assoc Overland Park	913-381-0004
MA Underwood Sales Chelmsford	617-256-8191
MI W R Hummon & Assoc Farmington	313-474-0661
MN Robt W Marshall Co Mnpls	612-929-0457
MO Penzner-Mankus Assoc Hazelwood	314-731-4334
NJ Addem 1 Sales Rep Huntington Sta	201-567-5900
NY KLI-Associate New Hartford	315-735-8525
OH Trm State Mktg Cincinnati	513-761-7993
PA Sapinosa Assoc Broomall	215-353-7267

NEW JERSEY MACHINE INC 6 COMMERCE RD FAIRFIELD NJ 07006	201-227-8300
TXW 710-734-4353	
K LEESON EMP 275 ENG 25 \$5,000-\$10,000K	
NEW JERSEY SEMI-CONDUCTOR PRODUCTS INC 20 COMMERCE ST SPRINGFIELD NJ 07081	
TXW 138728	201-376-2922
R HILDEBRANDT EMP 120 ENG 3 \$5,000-\$10,000K	

NEWMAN CORP MM 24 TIOGA WAY BOX 615 MARBLEHEAD MA 01945	617-631-7100
C LOUTREL EMP 14 ENG 1	
NEW MEDIA GRAPHICS CORP 279 CAMBRIDGE ST BURLINGTON MA 01803	617-272-8844
M OAKES EMP 32 ENG 8 \$2,500-\$5,000K	
MD New Media Graphics Silver Spring	301-445-7220

NEWPORT ELECTRONICS INC 630 E YOUNG ST SANTA ANA CA 92705	714-540-4914
TXW 910-595-1787	
J WAY EMP 150 ENG 10 OVER \$10,000K	
ADV PG 272	
AL Beacon Electronics Huntsville	205-881-5031
AZ GPS Assoc Phoenix	602-246-1097
CA Luscombe Engrg Co Pasadena	213-684-2000
CA IFM Inc Milpitas	408-945-5920
CO AKI Enterprises Denver	303-388-4488
CT Eastonix Inc Madison	203-421-4514
FL Beacon Electronics Boca Raton	305-392-3500
GA Beacon Electronics Atlanta	404-256-9640
IL Brainerd Wilson Arlington Hts	312-437-2700
IN Walter W Biebrich Inc Indpls	317-299-0699
KS H & H Electrical Sales Mission	813-236-4460
MD Electro-Tech Perry Hall	301-256-2723

MA Eastonix Bedford	617-275-5775
MI Amtech Reps Farmington	313-474-8300
MN Rockmore Sales Eden Prairie	612-941-1390
MO Power Transmission Sys St Charles	314-928-1750
NE H & H Electrical Sales Omaha	402-397-6553
NJ JMR Sales Parlin	201-254-8484
NY ADM Enterprises Skaneateles	315-685-8991
NY JMR Sales Inc E Setauket	516-689-8871
NC Beacon Electronics Raleigh	919-787-0330
OH Dolfuss-Root Strongsville	216-238-0300
PA J E Cuesta & Co King of Prussia	215-265-5800
TX Associated Dynamics Addison	214-387-3800
VA Electro-Tech Dumfries	703-670-6962
WI Brainerd Wilson Waukesha	414-797-7940
FR R H Nichols Woodbridge ON	416-851-8871

DISTRIBUTORS	
AL Brownell Inst & Ctrl Mobile	205-479-8581
AL FLW Southeast Huntsville	205-837-9363
AZ Beta Distributors Tempe	602-894-9824
AZ Metermaster Phoenix	602-437-1425
AR Brownell Inst & Ctrl Little Rock	501-562-2061
CA FLW Costa Mesa	714-751-7512
CA EIL Instruments LA	213-685-7020
CA Meter-Master LA	213-685-4340
CA FLW Inc Hayward	415-786-9070
CA Coast Instruments San Leandro	415-483-3774
CA Thern-X Foster City	415-571-1166
CO Beta Distributors Englewood	303-779-4494
CO EIL Instruments Denver	303-534-4160
CT EIL Instruments Middletown	203-346-6646
FL EIL Instruments Palm Bay	305-725-8300
FL Brownell Inst & Ctrl Miami	305-884-3197
GA Brownell Inst & Ctrl Hapeville	404-762-5181
HI FLW Inc Kailua	808-945-1030
IL Data Elect Chicago	312-283-0300
IN Data Elect Indpls	317-359-5368
IA Universal Precision Davenport	319-326-5757
KS Kornfeld Thorp Kansas City	913-321-7070
KY EIL Instruments Louisville	502-454-3420
LA American Analog Slidell	504-641-0652
MD Pioneer-Standard Gaithersburg	301-948-2242
MD EIL Instruments Sparks	301-771-4800
MD Sunshine Scientific Baltimore	301-661-5900
MA Brownell Inst & Ctrl Woburn	617-935-7820
MA FLW New Eng N Reading	617-664-0116
MA Calibron Waltham	617-894-6440
MA George Inst Royal Oak	313-280-1111
MN Data Elect Plymouth	612-559-1434
MO Universal Precision Manchester	314-394-4693
MO C & S Instruments St Louis	314-383-4445
NJ Brownell Inst & Ctrl Edison	201-287-2030
NJ Hosica Labs Newboundland	201-697-6111
NM Beta Distributors Albuquerque	505-966-2420
NY Brownell Ins & Ctrl Farmingdale	516-420-5990
NY R F Lamb Co Buffalo	716-874-4900
NY EIL Instruments Hauppauge	516-231-6333
NY Trott Electronics Clarence	716-634-8500
NC FLW Southeast Charlotte	704-597-1270
NC Brownell Inst & Ctrl Charlotte	704-597-1270
NC Trott Electronics Charlotte	704-376-2237
OH Pioneer Instr Cleveland	216-587-3600
OH Pioneer Instr Dayton	513-236-9900
OH Schlemmer Assoc Cincinnati	513-522-8340
OH Weschelyne Cleveland	216-238-2550
OK Intek Tulsa	918-622-8570
OR Weston Inc Portland	503-283-0132
PA Pioneer Instr Pittsburgh	412-782-2300
PA Sunshine Scientific Philadelphia	215-673-5600
PA Troia Industries York	717-846-8472
TN FLW Southeast Memphis	901-345-3563
TN Brownell-Electro Knoxville	615-966-3441
TX Intek Dallas	214-243-7000
TX Intek Houston	713-688-7000
TX Pioneer Instr Houston	713-988-5555
TX Metermaster Garland	214-271-5671
TX American Analog Houston	713-941-7265
UT Beta Distributors Ogden	801-973-4455
VA Metermatics Richmond	804-275-1431
WA EIL Instruments Seattle	206-575-1888
WA Eichler-Richards Seattle	206-523-7888
WA Weston Woodinville	206-486-8854
WI E-M Instruments Milwaukee	414-272-7799
FR R H Nichols Woodbridge ON	416-851-8871

NEWTON ENGINEERING SVC INC 64 NEEDHAM ST NEWTON HLDS MA 02161	617-244-2725
W BUTTERWORTH EMP 20 ENG 1	

NEW WAVE INSTRUMENTS 3760 MASTERS CT SAN JOSE CA 95111	408-629-3105
S LARSEN	

NEW YORK TESTING LABS INC 75 URBAN AVE WESTBURY NY 11590	516-334-7770
J GASPARI EMP 50 ENG 14 \$2,500-\$5,000K	

NIAGARA MACHINE & TOOL WORKS BOX 475 BUFFALO NY 14240	
TXW 91-274	716-893-4070
C BOGARDUS	
CT Niagara Mach & Tool Wks W Hartford	203-521-7546
GA Niagara Mach & Tool Wks Flowery Branch	404-967-2902
MI Niagara Mach & Tool Wks Detroit	313-355-2155
NJ Niagara Mach & Tool Wks Scotch Plains	201-561-7070
NY Niagara Mach & Tool Wks Brooklyn	718-763-3117
OH Niagara Mach & Tool Wks Cleveland	216-238-9515
OH Niagara Mach & Tool Wks Cincinnati	513-489-0663
PA Niagara Mach & Tool Wks King of Prussia	215-265-8383

TN Niagara Mach & Tool Wks Chattanooga	615-870-2003
TX Niagara Mach & Tool Wks Denton	817-565-8372

NIC COMPONENTS CORP 238 RTE 109 FARMINGDALE NY 11735	516-694-0060
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NICHICON (AMERICA) CORP 927 E STATE PKWY SCHAUMBURG IL 60195	312-843-7500
TXW 20-6577	
R EDWARDS	

AL Interep	205-533-1730
CA Criterion Sales	408-988-6300
CA J. J. Riley & Assoc	714-841-1411
CO West Inc	303-692-0131
CT Gerald Rosen	203-375-5456
FL Delmac Sales	813-447-5192
GA Interep	404-499-8680
IL Industrial Representatives	312-647-7755
IN Harvey (Indpls)	317-872-1031
KY KW Elect Sales	502-451-1860
MA Gerald Rosen	617-879-5505
MI Greiner Assoc	313-499-0188
MN Robt W Marshall	612-929-0457
MO Centech Inc	314-291-4230
NJ Radix	201-467-4970
NY Radix	201-467-4970
NC Zucker Assoc	919-782-8433
OH KW Elect Sales	614-888-0483
OR Venture	503-642-9090
PA KW Elect Sales	412-287-4300
TX So States Market	214-238-7500
UT West Inc	303-692-0131
VA L D Lowery Inc	301-459-1556
WA Venture Elect	206-454-4594
WI Industrial Representatives	414-259-0965
FR Tech-Trek Inc BC	416-674-1717
FR Tech-Trek Inc ON	416-674-1717
FR Tech-Trek Inc PQ	416-674-1717

DISTRIBUTORS	
AL Hall Mark Elect Huntsville	205-837-8700
AZ Hall Mark Elect Phoenix	602-243-6601
AZ Bell Industries Tempe	602-966-7800
AZ TTI Phoenix	602-966-1616
AZ Shelley Elect Tempe	602-894-2058
CA Hall Mark Elect San Jose	408-946-0900
CA Components Center Fountain Valley	714-979-0433

CA Integrated Elect Chatsworth	818-998-2200
CA Ryno Elect Irvine	714-261-2500
CA Shelley Elect San Diego	714-453-7133
CA Hall Mark Elect San Diego	619-268-1201
CA Hall-Mark Elect Canoga Park	818-716-7300
CA Hall-Mark Elect El Segundo	213-643-9101
CA Ryno Electronics San Diego	619-453-7133
CA Shelley Electronics Chatsworth	818-998-3333
CO Hall Mark Elect Denver	303-934-5859
CO Shelley Elect Boulder	303-442-2718
CT Sager Elect Sply Wallingford	203-265-4600
CT Cronin Elect Wallingford	203-265-3134
FL Hall Mark Elect Orlando	305-855-4020
FL Hall Mark Elect Clearwater	813-530-4543
FL TTI Orlando	305-859-1000
GA Dixie Elect Augusta	404-722-2055
GA Hall Mark Elect Norcross	404-447-8000
GA Spectrum Elect Norcross	404-448-1516
IL Century Elect Chicago	312-777-9700
IL GBL/Gould Elc Grove Vlg	312-593-3220
IL Reprtron Arlington Hts	312-593-7070
IL Mid-West Assoc Rockford	815-962-8036
IN Advent Elect Indpls	317-872-4910
IA Deeco Cedar Rapids	319-365-7551
KS Hall Mark Elect Lenexa	913-888-4747
MD Hall Mark Elect Baltimore	301-796-9300
MA Cronin Elect Needham	617-449-5000
MA TTI Woburn	617-938-8800
MA Sager Elect Sply Hingham	617-749-6700
MA Hall-Mark Elect Woburn	617-935-9777
MI Reprtron Livonia	313-525-2700
MN Hall Mark Elect Bloomington	612-854-3223
MN Joel Co Mnpls	612-545-5669
MO Hall Mark Elect Maryland Hts	314-291-5350
NJ Hall Mark Elect Mt Laurel	609-235-1900
NJ Hall Mark Elect Fairfield	201-575-4415
NY Jacob Elect Hauppauge	516-273-5500
NY Fairmont Elect Sales Hauppauge	516-231-3313
NY Rome Elect Rome	315-337-5400
NY Masline Rochester	716-546-5373
NY Summit Buffalo	716-887-2800
NC Hall Mark Elect Raleigh	919-932-4465
NC Resco/Raleigh Raleigh	919-781-5700
NC Dixie Electronics Charlotte	704-377-5413
OH Argent Industries Englewood	513-836-8633
OH Hall Mark Elect Solon	216-349-4632
OH Pioneer/Dayton Dayton	513-236-9900
OH Hall Mark Elect Cincinnati	513-563-5980
OK Hall Mark Elect Tulsa	918-835-8485
OR Bell Indus Lake Oswego	503-241-4115
PA Advacom Lancaster	717-299-5615
PA Cumberland Harrisburg	717-232-5999
PA Advacom McKean	814-476-7774
SC Dixie Elect Columbia	803-779-5332
TN Dixie Elect Knoxville	615-938-4131
TX Hall Mark Elect Dallas	214-341-1147
TX Hall Mark Elect Houston	713-781-6100
TX TTI Ft Worth	817-831-0441
WA Bell Indus Bellevue	206-747-1515
WA Integrated Elect Bellevue	206-455-2727
WI Hall Mark Elect Oak Creek	414-761-3000
WI Marsh Milwaukee	414-475-6000
FR Future Elect Pte Claire PQ	514-694-7710
FR Future Elect Downsview ON	416-663-5563
FR Rae Ind Elect Edmonton AB	403-451-4001
FR Future Elect Vancouver BC	604-438-5545

NICOLET COMPUTER GRAPHICS DIV

777 ARNOLD DR BOX 3020	
MARTINEZ CA 94553	
TXW 910-481-5951	415-372-7568
H KEIPER EMP 200 ENG 35 OVER \$10,000K	
CA Nicolet Computer Santa Ana	714-261-7611
CO Nicolet Computer Englewood	303-773-1800
CT Nicolet Computer Wethersfield	203-721-0778
CA Nicolet Computer Tucker	404-491-0127
IL Nicolet Computer Schaumburg	312-397-5200
MD Nicolet Computer Lanham	301-459-2940
MA Nicolet Computer Burlington	617-273-4404
MO Nicolet Computer St Louis	314-821-2868
NJ Nicolet Computer Cranford	201-276-6677
NY Nicolet Computer Wantagh	516-826-4422
NY Nicolet Computer E Syracuse	315-463-5211
NC Nicolet Computer Chapel Hill	919-929-0530
OH Nicolet Computer Toledo	419-241-6484
TX Nicolet Computer Houston	713-785-9918

NICOLET INSTRUMENT CORP

OSCILLOSCOPE DIV 5225	
VERONA RD MADISON WI 53711	
TXW 910-286-2737	608-273-5008
M DMBACH EMP 109 ENG 12 OVER \$10,000K	
CA Nicolet Inst 215 Fourier Av Fremont	
CA Nicolet Inst 1805 E Dyer Santa Ana	
FL Nicolet Inst 3902 Casaba Loop Valrico	
GA Nicolet Inst 2181 Northlake Pkwy Tucker	
IL Nicolet Inst 1345 Wiley Rd Schaumburg	
MD Nicolet Inst 4720-E Boston Way Lanham	
MA Nicolet Inst 12 New Eng Exec Pk Burlington	
MN Nicolet Inst 3600 E 80 St Mpls	
MO Nicolet Inst 1715 Deer Tracks St Louis	
NJ Nicolet Inst 9004C Greentree Marlton	
NY Nicolet Inst 156 Barrett Schenectady	
OH Nicolet Inst 4229 Moselle Hamilton	
TX Nicolet Inst 2020 Ave G Plano	
WA Nicolet Inst 300 Admiral Way Edmonds	

DISTRIBUTORS

AZ Aztec Entprs Phoenix	602-944-9185
CO Aztec Entprs Littleton	303-795-0250
UT Aztec Entprs Albuk	505-262-1688
NM Aztec Entprs SLC	801-487-4750

NICOLET PARATRONICS CORP

201 FOURIER AVE FREMONT	
CA 94539 TXW 910-381-7030	415-490-8300
EMP 100 ENG 18 \$5,000-\$10,000K	

NICOLLET MFG INC 711 15 AV NE

MINNEAPOLIS MN 55413	612-379-7919
B HARTLEY EMP 25 ENG 2 \$500-\$1,000K	

NIDEC-TORIN CORP 100-FRANKLIN DR

TORRINGTON CT 06790	
TXW 643963	203-482-4422
N CORVO EMP 200 ENG 15 OVER \$10,000K	
AZ Fred Board Assoc Scottsdale	602-994-9388
CA Bestronics Inc Irvine	714-261-7233
CA Nidec-Torin Corp Encino	818-990-3230
FL EIR, Inc Fern Park	305-830-9600
GA EMA Inc Atlanta	404-448-1215
MD Delta III Assoc Columbia	301-730-4700
MA Richard Puriton Inc Andover	617-475-7055
MN Electromec Sales Burnsville	612-894-8200
NJ TAI Corp Bellmawr	609-933-2600
OH J C Hofstetter Co Dayton	513-296-1010
OK Blair Engineering Tulsa	918-747-3100
PA J C Hofstetter Co Pittsburg	412-327-1410
TX Blair Engineering Houston	713-776-0011
WI John G Twist Co Brookfield	414-782-2670
FR Tech Trek Ltd Etobicoke ON	416-622-9314
FR Tech Trek Ltd Pointe-Claire PQ	514-697-3385
FR Zentronics Calgary AB	403-272-1021
FR Zentronics Richmond BC	604-273-5575
FR Zentronics Winnipeg MB	204-775-8661
FR Zentronics Dartmouth NS	902-463-8411
FR Zentronics Ottawa ON	613-226-8840

DISTRIBUTORS

AL Marshall Huntsville	205-881-9235
AZ Kierulff Phoenix	602-243-4011
AZ Marshall Tempe	602-968-6181
CA Marshall Canoga Park	213-999-5001
CA Cypress Electronics San Jose	408-945-8400
CA Marshall Irvine	714-556-6400
CA Kierulff Los Angeles	213-725-0325
CA Kierulff Palo Alto	415-968-6292
CA Electronic Supply Riverside	714-787-9220
CA Marshall Sunnyvale	408-732-1100
CO Kierulff Denver	303-790-4444
CO Marshall Denver	303-427-1818
CT Kierulff Wallingford	203-265-1115
CT Marshall Wallingford	203-265-3822
FL Kierulff Ft Lauderdale	305-463-4940
FL Marshall Orlando	305-841-1878
FL Kierulff St Petersburg	813-576-1966
FL Pioneer Std Elect Deerfield Bch	305-428-8877
GA Electro-Air Corp Atlanta	404-351-3545
GA Kierulff Norcross	404-447-5252
GA Marshall Norcross	404-923-5750
IL Marshall Bensenville	312-595-6622
IL GBL/GOULD Elk Grove Vlg	312-933-3220
IL Kierulff Elk Grove Vlg	312-640-0200
MD Kierulff Baltimore	301-247-5020
MD Marshall Gaithersburg	301-840-9450
MD Pioneer Std Elect Gaithersburg	301-921-0660
MA Kierulff Billerica	617-667-8331
MA Marshall Burlington	617-272-8200
MA Pioneer Std Elect Lexington	617-861-9200
MN Kierulff Edina	612-941-7500
MN Marshall Plymouth	612-559-2211
MO Kierulff Maryland Hts	314-739-0855
NJ State Elect E Hanover	201-887-2550
NJ Marshall Fairfield	201-882-0320
NJ Kierulff Fairfield	201-575-6700
NJ Marshall Mt Laurel	609-234-9100
NY Marshall Hauppauge	516-273-2424

NY Jaco Elect Hauppauge	516-273-5500
NY Marshall Rochester	716-235-7620
NY Pioneer Std Elect Woodbury	516-921-8700
NC Kierulff Greensboro	919-852-9440
OH Schuster Elec Co Cincinnati	513-489-1400
OH Kierulff Cleveland	216-587-6558
OH Marshall Dayton	513-236-8088
OH Stotts-Friedman Dayton	513-298-5555
OK Kierulff Tulsa	918-252-7537
PA Pioneer Std Elect Pittsburgh	412-782-2300
TX Kierulff Dallas	214-343-2400
TX Marshall Dallas	214-233-5200
TX Kierulff Houston	713-530-7030
TX Marshall Houston	713-789-6600
TX Jaco Elect Richardson	214-235-9575
UT Kierulff SLC	801-973-6913
WA Kierulff Tukwila	206-575-4420
WA Marshall Tukwila	206-747-9100
WI Marsh Elect Milwaukee	414-475-6000
WI Kierulff Waukesha	414-784-8160

NIELSEN HARDWARE CORP 770

WETHERSFIELD BOX 568 HARTFORD	
CT 06141-0568 TXW 710-425-2970	203-522-8145
W BANULSKI EMP 150 ENG 6	
CA Robert E Minto Covina	213-383-7104
IL C E Mix Winnetka	312-588-3575
PA T Baldwin Media	215-565-6044
TX J Gronberg Bellaire	713-668-7729

NIKON INC INSTRUMENT GROUP

623 STEWART AVE GARDEN CITY	
NY 11530 TXW 967806	516-222-0200
D TANNER EMP 500 ENG 3 OVER \$10,000K	
CA Nikon Inst Group Foster City	415-571-8320
GA Nikon Inc Norcross	404-564-2391
IL Nikon Inc Niles	312-647-0152
MD Nikon Inc Rockville	301-294-0090
MA Nikon Inc Wellesley Hills	617-237-5900
OH Nikon Inc Dublin	614-766-2315
TX Nikon Inc Irving	214-659-9791

NIPPET CO 801 PITTSBURGH DR

DELAWARE OH 43015 TXW 24-5396	614-363-1981
R RICKES EMP 270 ENG 6 OVER \$10,000K	
CA Burt Sales Laguna Niguel	714-495-1888
IL Applied Components Sales Geneva	312-232-2669
PA McDermonitt & Assoc Glenolden	215-353-9503

NITTO DENKO AMERICA INC

27 SEAVIEW BLVD PORT	
WASHINGTON NY 11050	
TXW 96-1386	516-484-9700
S SCHOENSTADT EMP 35 ENG 4 OVER \$10,000K	

NIXDORF COMPUTER CORP 80 MAIN ST

NO READING MA 01864	
TXW 710-324-7688	617-890-3600
J ADDLESBERGER EMP 1700 ENG 100 OVER \$10,000K	
AL Nixdorf Birmingham	205-979-3021
AZ Nixdorf Phoenix	602-258-9772
CA Nixdorf LA	213-642-0030
CA Nixdorf San Mateo	415-574-7334
CO Nixdorf Englewood	303-694-3781
CT Nixdorf Glastonbury	203-659-3501
FL Nixdorf Tampa	813-879-2305
GA Nixdorf Atlanta	404-325-8300
IL Nixdorf Chicago	312-693-0600
MI Nixdorf Southfield	313-353-6490
MN Nixdorf Mpls	612-944-0112
MO Nixdorf St Louis	314-966-3223
NJ Nixdorf Bloomfield	201-896-2500
NY Nixdorf New York	212-980-1585
NC Nixdorf Charlotte	704-525-5281
OH Nixdorf Cleveland	216-447-3460
PA Nixdorf Wayne	215-687-9280
TN Nixdorf Nashville	615-383-0610
TX Nixdorf Houston	713-642-9909
UT Nixdorf SLC	801-973-9557
VA Nixdorf Arlington	703-522-5911
WA Nixdorf Seattle	206-453-0220
WI Nixdorf Brookfield	414-786-9250
FR Nixdorf Willowdale ON	416-498-7200

DISTRIBUTORS

CO American Data Resources Denver	303-595-3028
IL Applied Info Mgmt Lombard	312-953-2100
MA Data Utilities Norwood	617-769-8450
NY Finserv Computer Corp	
Schenectady	518-374-4430
OH Higley & Co Mentor	216-946-5359
OK Metro Systems Okla City	405-842-5789
OK Metro Systems Tulsa	918-743-5351
PA Apollo Systems Springhouse	215-643-3466

NJE CORP 329 CULVER RD BOX 669

DAYTON NJ 08810-0669	
TXW 710-480-5674	201-329-4611
P JOHNSON EMP 130 ENG 5 \$5,000-\$10,000K	
AL REMCO Huntsville	205-533-3763
AZ Dar-C Inc Scottsdale	602-948-2240
AR Electra Reps Fort Smith	501-452-7822
CA ElSCO Electronics Garden Grove	714-891-4821
CA Pro Assoc Los Gatos	408-358-3861
CO FG Marketing Englewood	303-795-9176
CT R H Sturdy Co Ansonia	203-734-2186
FL V G Sales Pompano Beach	313-229-6550
GA REMCO Atlanta	404-447-6937
MD Spectro Assoc Rockville	301-294-9770
MA R H Sturdy Co Wellesley Hills	617-235-2330
MN Grayden & Flemmer Edina	612-941-1120
NY Sweetco Assoc Rochester	716-225-2383
NC REMCO Raleigh	919-847-5079
TX Electra Reps Dallas	214-248-3852
WA Underwood-Hanify Bellevue	206-643-1793

NKK SWITCHES OF AMERICA INC

14415 N SCOTTSDALE RD	
SCOTTSDALE AZ 85260	
TXW 910-950-1167	602-991-0942
L HOUSE EMP 20 ENG 2 \$5,000-\$10,000K	
ADV PGS 433,438,450,451,453,455	
AL Over & Over Huntsville	205-837-7105
AZ Mahaffey & Assoc Scottsdale	602-991-9790
C & W Component Sales Granada Hills	213-368-4032
CA McKinley Elect Sales San Diego	714-271-7221
CA Caltron Components Corp Mtn View	415-964-3244
CO TMA of Colorado Parker	303-841-3435
CT Newscott Co Yalesville	203-269-2654
FL Over & Over Fla Orlando	305-857-4057
FL Over & Over Fla Coral Springs	305-753-7050
GA Over & Over Norcross	404-449-6205
IL KMA Sales Co Rolling Meadows	312-398-5300
IN Frank E Kahsar Sales Indpls	317-888-8396
KS Midwest Tech Sales Merriam	913-236-8557
KY Frank E Kahsar Sales Cincinnati OH	614-252-4009
MD Eastern Components Timonium	301-561-5811
MA Newscott Co Needham	617-444-1923
MI Amtech Reps Farmington	313-474-8300
MN SAI Mktg Corp Minnetonka	612-935-0777
MO Midwest Tech Sales St Charles	314-441-1012
NY Net Sales Co Fairport	516-467-4538
NY Bittan Assoc Oceanside	516-678-6222
NY Net Sales Co De Ruyter	513-662-7996
NY Net Sales Co Troy	518-274-4758
NY Net Sales Co Webster	516-467-4538
NY NET Sales Co Cortland	607-756-6592
NC Over & Over Raleigh	919-872-2262
NC Over & Over Charlotte	704-527-3070
OH Frank E Kahsar Sales Cincinnati	513-922-3133
OH Frank E Kahsar Sales Columbus	614-252-4009
OH Frank E Kahsar Sales Hudson	216-650-1089
OK Rem Air Components Corp Tulsa	918-742-2559
OR Jas J Backer Co Portland	503-297-8744
PA Eastern Comp Sales West Conshohocken	215-825-8610
TX Rem Air Components Corp Dallas	214-234-1069
UT TMA of Colorado SLC	801-483-1009
WA Jas J Backer Co Seattle	206-285-1300
WI KMA Sales Co Milwaukee	414-259-1771
DISTRIBUTORS	
AL Powell Electronics Huntsville	205-539-2731
AZ Dalis Elect Sply Phoenix	602-275-2885
AZ Inland Elect Supply Tucson	602-889-5301
CA Cypress Elect San Jose	408-945-8400
CA Mrs Switch Inc San Dimas	714-599-6639
CA Rose Elect Dist San Jose	408-263-9700
CA Cypress Elect Torrance	213-533-6005
CA Powell Electronics San Jose	408-943-9020
CA Shanks & Wright Inc San Diego	619-239-0178
CA Cypress Electronics San Jose	408-945-8400
CA Electric Switches Inc Los Angeles	213-660-1310
CA Powell Electronics Costa Mesa	714-754-1717
CA Western Switches & Controls	
Tustin	714-731-4333
CO Denver Wintronics Arvada	303-431-7161
CO Jet Elect Supply Aurora	303-364-1000
CT Pilgrim Elect Danbury	203-792-7274
FL Nurmi Elect West Palm Bch	305-686-8553
FL Electronic Equipment Co Miami	305-871-3500
FL Intertec Components Longwood	305-834-7777
FL Graham Elect Supply Largo	813-541-4434
FL Powell Electronics Ft Lauderdale	305-979-5000
IL Hawks Elect Wheeling	312-459-4030
IL NEP Electronics Chicago	312-625-8400
IN Graham Elect Ft Wayne	219-423-3222
IN Graham Elect Indpls	317-634-8202
IN Mar Electronic Indpls	317-875-4510
KS Alrethnicus Inc Wichita	316-267-2849
LA Southern Radio Supply New Orleans	504-524-2343
MD Marine Air Supply Kensington	301-949-9560
MD Powell Electronics Columbia	301-995-0410
MA Controller Svc & Sales Boston	617-269-1300
MA Electronic Packaging Components Woburn	617-935-0400
MA Powell Electronics Westborough	617-366-6100
MA Spemco Switches St Clair Shores	313-771-2700
MJ Joel Co Hopkins	612-935-6202
MN Cassidy Electronics Eden Prairie	602-944-0100
MO Franklin Electronics Co St Louis	314-993-5333
NJ Powell Electronics Englewood	201-894-0800
NJ Brothers Elec East Brunswick	201-238-2200
NY Electronic Equip Co Hempstead	516-538-5510
NY Masline Elect Rochester	716-546-5373
NY Tritech Elect Oceanside	516-678-6226
NY Kin-Tronics Inc Yonkers	914-968-7736
NY Rome Electronics Rome	315-337-5400
NY Trojan Elect Supply Co Inc Troy	518-274-4481
NY QAR Indus Elect Sis Mt Vernon	914-699-2224
NY Rostech Electronics Plattsburgh	518-561-8347
NC Powell Elec Cary	919-467-1212
OH Schuster Electric Co Cincinnati	513-489-1400
OH Schuster Electric Co Twinsburg	216-425-8134
OK Radio Inc Tulsa	918-587-9123
OK Radio Inc Okla City	405-789-0741
OR Rose Elect Dist Lk Oswego	503-635-8823
OR Norvac Elec Beaverton	503-664-1025
OR Rose Elect Dist Co Beaverton	503-629-9288
PA Peak Elect Corp Wayne	215-293-9000
PA Powell Electronics Phila	215-365-1900
PA Leigh Electronics Allentown	215-433-3045
PA VSH Electronics Exton	215-363-2250
SC Cantrell Wise Taylors	803-268-1194
TN Tech-Tronics Chattanooga	615-875-5449
TN Bluff City Elect Memphis	901-345-9500
TN Allied Elect 401 E St Ft Worth	817-336-5401
TX Powerline Prods Houston	713-461-9791
TX Wallace Elect Dallas	214-340-0400
TX Southwest Electronics Stafford	713-240-4000
TX Southwest Electronics Richardson	214-234-3050
TX Southwest Electronics Austin	512-837-8971

TX EPC Inc Austin.....512-339-1131
 TX EPC Inc Houston.....713-447-5800
 TX Off The Shelf Components Dallas.....214-247-0052
 TX Powell Electronics Irving.....214-258-6841
 TX Southwest Electronics Austin.....512-837-8971
 UT Ballard Supply Co SLC.....801-972-2430
 WA Priebe Electronics Kirkland.....206-821-4695
 WA Powell Electronics Bellevue.....206-641-4446
 WI GW Electronics Ltd Hartland.....414-367-6003
 WI NEP Electronics New Berlin.....414-785-9100
 WI Taylor Electric Mequon.....414-241-4321

NMB CORP 9730 INDEPENDENCE AVE
 CHATSWORTH CA 91311
 TWX 65-1340.....213-709-1555
 J VAN BRUNT EMP 10

NMB HI-TEK 7274 LAMPSON AV
 GARDEN GROVE CA 92641
 TWX 67-8486.....714-898-9511
 EMP 400 ENG 13

DISTRIBUTORS

CA Toptronics Inc Santa Ana.....714-540-7811
 NH Enterprise Systems Dover.....603-742-7363
 FR Kaytronics Ville St Pierre PQ.....514-367-0101

NOKIA-KINEX 6950 BRYAN DAIRY RD
 LARGO FL 33543
 TWX 810-863-0362.....813-541-6404
 P CHELLGREN EMP 80 ENG 30 \$5,000-\$10,000

DISTRIBUTORS

AZ BFA Corp Scottsdale.....602-454-2383
 CA DA/COM Systems Woodland Hills.....714-851-8142
 CA Tredent Data Sys Woodland Hills.....818-704-9044
 CO Beta Distributors Englewood.....303-779-3603
 CT EB Systems Windsor.....203-243-2222
 FL General Technology Inc
 Ind Harbour Bch.....305-777-1133
 GA X-Point Norcross.....404-446-2764
 IL KNE Resources Elk Grove Vlg.....312-228-5850
 MA Marketechs Wellesley.....617-237-4343
 MI Executive Data Solutions
 Farmington Hills.....313-477-4006
 MO Dylec South Maryland Hts.....314-569-2990
 NJ Glasgal Comm Svcs Northvale.....201-768-8082
 NY Technology Consortium Islip.....516-293-8898
 NC Jas L Highsmith Inc Charlotte.....704-527-2382
 OH Arc Elect Dist Westlake.....216-835-8400
 PA Microcom Paoli.....215-296-7270
 TX Datatron Communications Houston.....713-266-4771
 VA Comsel Vienna.....703-734-3880

NON-LINEAR SYSTEMS DIV KAYPRO
 CORP 533 STEVENS AVE
 SOLANA BEACH CA 92075
 TWX 910-322-1132.....619-481-3953
 D SIMMONS EMP 100 ENG 6 \$2,500-\$5,000

AL Brownell Instruments Birmingham.....205-322-3374
 AZ Metermaster Phoenix.....602-243-4111
 CA Metermaster Los Angeles.....213-685-4300
 CA EIL Los Angeles.....213-685-7020
 CO EIL Denver.....303-534-4160
 FL EIL Palm Bay.....305-725-8300
 GA Metermaster Norcross.....404-446-0166
 IL Metermaster Elk Grove.....312-593-8650
 IN EIL Indpls.....317-545-1373
 KS Electronic Supply Kansas City.....816-931-0250
 MD EIL Sparks.....301-771-4800
 MA EIL Burlington.....617-272-9450
 MN Electronic Tool Burnsville.....612-894-3700
 NV Ram Meter Ferndale.....313-398-6767
 NY EIL Hauppauge.....516-231-6333
 NY EIL Rochester.....716-424-5750
 NC Southeastern Radio Supply
 Charlotte.....704-523-1122
 OH EIL Dayton.....513-435-2134
 PA Sunshine Scientific Inst Phila.....215-673-5600
 TX Metermaster Dallas.....214-271-5671
 WA EIL Seattle.....206-762-0880

NORELCO INDUSTRIES INC
 63 MARINE ST FARMINGDALE
 NY 11735.....516-249-7262
 R THAW EMP 45 ENG 1 \$1,000-\$2,500

NOREN PRODUCTS INC 3543
 HAVEN AVE MENLO PARK CA 94025.....415-365-0632
 B SHANKER EMP 35 ENG 3
 CA C Krebs Santa Clara.....408-748-1991
 NJ C Brennenman Medford.....609-953-0770
 OH F Heinzelman Niles.....216-652-9479

NORGREN CO C A 5400 S DELAWARE
 ST LITTLETON CO 80120-1663
 TWX 4-5541.....303-794-2611
 P MALEY

NORLAND CORP NORLAND DR
 FORT ATKINSON WI 53538
 TWX 265448.....414-563-8456

R MILLAR OVER \$10,000
 CA Elotek Systems Laguna Hills.....714-830-4856
 CA IFM Inc Milpitas.....408-945-5920
 CO Hannah-Hill Inc Arvada.....303-424-0108
 FL Microspec Inc Orlando.....408-929-6508
 GA Microspec Inc Lilburn.....404-921-3840
 MA McBar Assoc Waltham.....617-890-0233
 MI Doug Kopp Coloma.....616-468-4622
 MO Engineering Services St Louis.....314-997-1515
 NJ KLS Assoc Cedar Grove.....201-785-4450
 NY Robert F Lamb Co Buffalo.....716-874-4900
 PA Measurement Inst East
 Blairsville.....412-459-8090
 SC Microspec Inc Rock Hill.....803-366-3015
 TN Microspec Inc Nashville.....615-383-4064
 TX Lear Assoc Richardson.....214-231-5388
 WI B Millar Fort Atkinson.....414-563-8456

NORPLEX BOX 1448 LACROSSE
 WI 54601 TWX 29-3422.....608-784-6070
 R EHRENBERGER EMP 900
 AZ Norplex Chandler.....602-897-0513
 CA Norplex San Jose.....408-995-0711
 CA Norplex Irvine.....1-800-824-4920
 CT Norplex Glastonbury.....203-633-3635
 FL G C Kroening Naples.....813-262-8982
 GA Norplex Kennesaw.....404-424-8937
 IL Norplex Des Plaines.....312-321-2383
 IN D-H Assoc Indpls.....317-842-4424
 MI Hoffmelt Engrg Inc St
 Clair Shores.....313-774-5851

MN Norplex Minneapolis.....612-835-5530
 NJ Plastech Inc Union.....201-687-4810
 NY J N Powderly Co Rochester.....716-546-7820
 PA Plastics Sales Midatlantic Paoli.....215-647-5820
 TX Bunker Sales & Mktg Irving.....214-438-3300
 WA Bergford & Assoc Olympia.....206-866-2001
 WI Industrial Sales Tech Milwaukee.....414-462-5024
 FR J L Best Scarborough ON.....416-690-3254

NORTEC CORP 421 N QUAY
 KENNEWICK WA 99336
 TWX 152-858.....509-735-7550
 C BLANCHARD EMP 90 ENG 10
 OH D Sandstrom Cincinnati.....513-771-3728
 PA M Butera Yardley.....215-736-8088
 TX B Makarwich Friendswood.....713-482-1570
 WA B Goranson Kennewick.....509-735-7550

NORTH AMERICA MICA INC
 5230 CARROLL CANYON RD
 SAN DIEGO CA 92121 TWX 701257.....619-458-1327
 A TOTA

NORTH AMERICAN PHILIPS LIGHTING
 CORP 1 WESTINGHOUSE PLAZA
 BLOOMFIELD NJ 07003
 TWX 843350.....201-429-3000
 R MCMANIGAL JR
 CA NAPLAC Compton.....213-637-7511
 IL NAPLAC Itasca.....312-773-3020
 NJ NAPLAC South Brunswick.....201-329-6946

NORTH AMERICAN SOAR CORP
 1126 CORNELL AVE CHERRY HILL
 NJ 08002 TWX 13-6479.....609-488-1060
 L GREBLA EMP 7 ENG 1

NORTH ATLANTIC INDUSTRIES INC
 60 PLANT AVE HAUPPAUGE
 NY 11788-3890 TWX 510-227-9660.....516-582-6500
 K SALZ EMP 300 ENG 25 OVER \$10,000

AL Periphix Teqspec Huntsville.....205-883-6699
 AZ Aztec Entprs Phoenix.....602-944-9185
 CA T Louis Snitzer Co Cupertino.....408-257-8333
 CA T Louis Snitzer Co Los Angeles.....213-836-6710
 CO Aztec Entprs Denver.....303-779-5285
 FL Periphix Teqspec Cocoa Beach.....305-783-3444
 GA Periphix Teqspec Marietta.....404-980-9328
 KS Ramsey Assoc Lenexa.....913-541-1007
 MD Brimberg Sales Co Wheaton.....301-946-2670
 MA Meico Inc Reading.....617-944-6660
 MI WKM Assoc Madison Hts.....313-588-2300
 MN Pat Lind Elctns Co Circle Pines.....612-786-5770
 MO Ramsey Assoc St Louis.....314-878-5042
 NM Aztec Entprs Albuquerque.....505-262-1688
 NC Periphix Teqspec Winston Salem.....919-723-8102
 OH WKM Assoc Dayton.....513-434-7500
 OR N W Test & Meas Beaverton.....503-646-9966
 PA Technical Inst Sales Doylestown.....215-345-4110
 TX Scientific Sales Co Richardson.....214-231-6541
 UT Aztec Enterprises Ogden.....801-621-1655
 WA N W Test & Meas Redmond.....206-881-8857
 FR John DeGroot Assoc Scarborough
 ON.....416-431-9331

NORTH COAST AUTOMATION PROGRAMMABLE
 MOTION CONTROL 71 ALPHA PARK
 CLEVELAND OH 44143-2202.....216-473-3800
 R VATTY EMP 10 ENG 6

NORTHERN AUTOMATIC ASSEMBLY INC
 4611 N CHATSWORTH SHOREVIEW
 MN 55112 TWX 107720.....612-481-0022
 R HOPPER EMP 52 ENG 5 \$1,000-\$2,500

NORTHERN PRECISION LABS INC
 BOX 1016 11 MADISON RD
 FAIRFIELD NJ 07006
 TWX 710-734-4301.....201-227-4800
 P PYTAL EMP 85 ENG 13 \$5,000-\$10,000

NORTH HILLS ELECTRONICS INC
 ALEXANDER PL GLEN COVE
 NY 11542 TWX 64-0476.....516-671-5700
 H MARX EMP 105 ENG 13 \$2,500-\$5,000
 CA Tri-Rep Palo Alto.....415-965-1822
 MA Microwave Component Mktg
 Burlington.....617-273-3106
 MN Hei-Lite Co Mnpls.....612-861-6051
 NY Spectrum Sales Box 77 Hartsdale.....609-424-5590

NORTHLAKE ENGINEERING INC
 999 ANITA AVE ANTIOCH
 IL 60002.....312-395-5710
 W HARDT EMP 120 ENG 5 \$5,000-\$10,000
 CA Wm Parks Assoc Freemont.....415-796-0875
 CA Cal Rep I Glendale.....714-250-0563
 FL Newell-Hynes Assoc Deerfield Bch.....305-429-3207
 MA Bordewick Eng Sales Norwell.....617-659-4915
 MN Fasco Sales Edina.....612-941-2696
 NJ Danco Elctn Sales Cherry Hill.....609-424-5590
 NY Scibetta Reps Baldwinville.....315-622-3939
 NY Masin-Esco Hauppauge.....516-273-3500
 NC Wolff's Sales-Service Apex.....919-362-5022
 OH Augnat Assoc Akron.....216-535-4396
 OR Bern Doran Sales Forest Grove.....503-357-3333

NORTHLAND A SCOTT FETZER CO
 968 BRADLEY ST N WATERTOWN
 NY 13601 TWX 937481.....315-782-2350
 J BOWER EMP 400 ENG 4 OVER \$10,000
 CA Rock Assoc Buena Park.....714-521-6980
 IL Lenhart Assoc Northfield.....312-251-7074
 IN EMSCO Indpls.....317-251-7074
 OH Sisler & Assoc Bucyrus.....419-562-9311
 TX Ed Waffle & Co Richardson.....214-231-7239

NORTHROP CORP PREC PRODS DIV
 100 MORSE ST NORWOOD
 MA 02062 TWX 710-336-6817.....617-762-5300
 M THOMAS EMP 1701 ENG 400 OVER \$10,000
 CA Northrop Corp Pomona.....818-444-6943
 FL Northrop Corp Shalimar.....904-651-1414
 MO Sutherland Diversified
 Svcs St Louis.....314-731-0303
 OH Northrop Corp Dayton.....513-222-8606
 TX Northrop Corp Dallas.....214-991-1981
 VA Northrop Corp Arlington.....703-525-6767

NORTHWEST INSTRUMENT SYSTEMS INC
 BOX 1309 BEAVERTON OR 97075.....503-690-1300
 R IMBRIALE EMP 100 ENG 35
 CA J Crandall Los Angeles.....714-964-9084
 CA M McHenry San Jose.....415-349-0220
 FL J Welty Orlando.....305-855-6727
 MD D Esler Columbia.....301-997-8975
 MA M Mahler Bedford.....617-777-3663
 MI H Lugtenburg Livonia.....416-624-6132
 NJ V Stango Atco.....609-729-1141
 TX R Smiley Plano.....214-881-0098

DISTRIBUTORS

CA Electro Rent Burbank.....213-843-3131
 CA Electro Rent Mt View.....415-964-5500
 CA Electro Rent San Diego.....619-571-7905
 FL Electro Rent Orlando.....305-299-6701
 GA Electro Rent Tucker.....404-938-8511
 IL Electro Rent Elk Grove.....312-956-8380
 MD Electro Rent Columbia.....301-982-1450
 MA Electro Rent Wilmington.....617-657-8400
 MI Electro Rent Livonia.....313-522-8555
 MN Electro Rent Bloomington.....612-854-5990
 NJ Electro Rent Cedar Grove.....201-857-2280
 TX Electro Rent Dallas.....214-340-7070
 FR Electro Rent Mississauga ON.....416-624-6132

NORTHWEST MICROCIRCUITS INC
 5464 SW PHILOMATH BLVD
 CORVALLIS OR 97333.....503-753-8242
 EMP 9 ENG 2 \$100-\$250K
 ADV PG 212

NORTON ASSOCIATES INC 10
 DI TOMAS CT COPIAGUE NY 11726.....516-842-4666
 R NORTON

NORTON CO 1 NEW BOND ST
 WORCESTER MA 01606
 TWX 710-340-1126.....617-853-1000
 EMP 19000 OVER \$10,000

CA Norton Co Fullerton.....714-870-6111
 CA Norton Co Santa Fe Springs.....213-949-8478
 CT Norton Co Madison.....203-245-7719
 GA Norton Co Atlanta.....404-587-4895
 IL Norton Co Rolling Meadows.....312-394-3200
 IN Norton Co Indianapolis.....317-849-7800
 MA Norton Co Clinton.....617-365-6645
 MI Norton Co Farmington Hills.....313-855-5010
 MO Norton Co St Louis.....314-878-3331
 NE Norton Co Omaha.....402-334-7695
 NY Norton Co Troy.....518-273-0100
 NC Norton Co High Point.....919-668-9640
 OH Norton Co Cleveland.....216-265-3535
 PA Norton Co Wayne.....215-688-4646
 TN Norton Co Memphis.....901-682-9815
 TX Norton Co Dallas.....214-368-6878

NORTON PERFORMANCE PLASTICS
 69-150 DEY RD WAYNE NJ 07470
 TWX 710 988-5834.....201-696-4700
 W MAHONEY EMP 300 ENG 15 OVER \$10,000
 CT T Easley San Jose.....408-358-2488
 CA W Thompson Killingworth.....203-663-1827
 DE R C Keller Wilmington.....302-478-6606
 GA F Rideout Lilburn.....800-526-7844
 IL Chemplast Inc Franklin Pk.....312-671-0099
 MA C Thompson Killingworth.....617-944-0486
 MI E Stiefelmayer Roscomon.....313-355-2677
 MO H Showmaker West Milford.....201-728-3307
 NJ T H Smith Oakland.....201-696-4700
 NY J J Hagmaier New Hyde Pk.....516-742-0524
 OH C Yannarella Macedonia.....216-467-3584
 TX R Wagner Conroe.....713-363-2515
 FR Chemfluor Plastics Mississauga
 ON.....416-828-2100
 FR Cyr-Saez San Juan PR.....809-781-1816

NOUMENON CORP 512 WESTLINE DR
 ALAMEDA CA 94501 TWX 176-340.....415-521-2145
 W LYNCH

NOVACAP 1811 N KEYSTONE ST
 BURBANK CA 91504
 TWX 910-498-2219.....818-841-7150
 N MARHEVKA EMP 100 ENG 8 \$2,500-\$5,000
 AZ Quatra Assoc.....602-820-7050
 CA Angle Assoc.....714-833-0692
 CA Caltron Inc.....415-964-3244
 CO West Hi-Tech.....303-477-8180
 FL J Graham Assoc Palm Beach.....305-622-4595
 IL Mar-Con Assoc.....312-675-6450
 MA Jappe Co.....617-245-9359
 MN Eldak Co.....612-535-2671
 NJ Ventronics Inc.....201-272-9262
 OR Demarest Assoc.....503-642-4515
 TX E F Aymond Co.....214-826-7620
 UT West Hi-Tech.....801-262-9403

WA Demarest Assoc. 206-523-3210
FR Haltronics-Ontario 416-844-2121
FR Access Elect British Columbia 604-299-4626

DISTRIBUTORS

CA Passive Components Chatsworth 818-341-1745
CA Distel Westlake Village 805-495-9998
CA Semi Dice Santa Clara 408-987-9777
CA Garrett Industries Santa Maria 805-922-0594
CA National Chip Gardena 714-892-7749
CA Shelley Electronics Chatsworth 818-998-3333
MA Ditronix Inc Woburn 617-938-0866
NJ Bae Sales Parsippany 201-299-1123

NOVADYNE INC 18060 SUNSET CT
FOUNTAIN VALLEY CA 92708 714-898-5370
S HERRINGTON EMP 18 ENG 4 \$1,000-\$2,500K

NOVA ELECTRIC MFG CO 263
HILLSIDE AVE NUTLEY NJ 07110
TWX 219077 201-661-3434
K NIOVITCH EMP 45 ENG 5 \$2,500-\$5,000K

AZ Adtek Inc Glendale 602-931-9289
FL Datarap Orlando 305-843-5224
GA Grinding Assoc Atlanta 404-399-6780
HI Victor Kim Elctns Honolulu 808-841-6266
IL Kenneth W Meyers Co Schaumburg 312-882-4808
IN Kenneth W Meyers Co Indpls 317-243-6681
IA Kenneth W Meyers Co Cedar Rapids 319-363-8937
MD Selltronics Inc Silver Spring 301-589-3391
MN Kenneth W Meyers Co Mnpls 612-920-7080
NJ G & A Assoc Wayne 201-797-0441
NY Bromor Buffalo 716-691-2964
NY G & A Assoc New York 212-243-6155
NC Polytch Services Charlotte 919-723-8102
OH R D Cloon Assoc Columbus 614-459-2890
PA C F Gross Assoc Glenside 215-886-9444
TX Terry Power Sys Houston 713-686-4466
WA Industrial Electronics Lynnwood 206-775-3516
WI Kenneth W Meyers Co Brookfield 414-784-3790

NOVA TRAN CORP 100 DEPOSITION DR
CLEAR LAKE WI 54005 715-263-2333
R SCHLEY EMP 75 ENG 5 \$2,500-\$5,000K
CA Nova Tran Montclair 714-985-1875
IN Nova Tran Indpls 317-842-5399
NH Nova Tran Amherst 603-883-3339

NOVA-TRONIX INC 4701 PATRICK
HENRY DR 24 SANTA CLARA
CA 95054 TWX 62-759801 408-727-9530
B PITTS EMP 13 ENG 9 OVER \$10,000K

DISTRIBUTORS

CA Cypress Electronics San Jose 408-945-8400
CA Pyramid Electronics Santa Clara 408-727-9810
CA Control Designs Belmont 415-592-4806
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CA Controlled Static Santa Fe Sprgs.....213-949-4030

OLYMPIC WIRE & CABLE CORP
1 MADISON RD FAIRFIELD
NJ 07006 TWX 710-991-0071.....201-227-7996
Y ARCHER EMP 21 ENG 2 \$5,000-\$10,000K
CA Olympic Wire & Cable Corp
3555 Lomita Blvd D Torrance.....213-534-1620
NC Olympic Wire & Cable Corp
1200 Westinghouse Blvd
Charlotte.....704-588-6406

OLYMPUS CORP 4 NEVADA DR
LAKE SUCCESS NY 11042
TWX 96-0199.....516-488-3880
D BIONDI EMP 428 ENG 75 OVER \$10,000K
AZ Scientific Instrument Phoenix.....602-467-1286
AR Delta Optical Instr No
Little Rock.....501-835-2563
CA McBain Instr Chatsworth.....213-998-2702
CA Olympus Corp Burlingame.....415-342-3384
CO Scientific Instr Co Aurora.....303-360-7507
CT Micro Tech Optical Bloomfield.....203-243-0280
DC Opelco Washington.....703-471-0080

GA Southern Micro Instr Atlanta.....404-965-0343
IL Scientific Supply Schiller Park.....312-671-9310
KS Olympus Corp Overland Pk.....913-648-8323
KY Omega Optical Louisville.....502-245-7607
MA Maroon Instr Co Canton.....617-828-2181
MI Leco Corp St Joseph.....616-983-5531
MN Jewellmont / Leeds Mpls.....612-546-3800
NJ Olympus Corp Cherry Hill.....609-482-1010
NJ New Jersey Scientific Middleburg.....201-873-2313
NY August Waeland Inc New Hyde Pk.....516-328-1220
NY Spectra Services Rochester.....716-254-4011
OK Bystrom Instr Okla City.....405-682-0831
PA BeB Microscopes Valencia.....212-625-2290
TX Acromatic Industries Dallas.....214-363-2868
WA Boyle Instr Gig Harbor.....206-858-8155

OMEGA ENGINEERING INC 1
OMEGA DR BOX 4047 STAMFORD
CT 06907 TWX 996404.....203-359-1660
G VERMILYEA EMP 450 ENG 20
ADV PGS 110,194,198,271,385,474,475,
448,540, Gatefold

OMEGA INDUSTRIES INC 861
PRODUCTION PL NEWPORT BEACH
CA 92663.....714-642-8313
D HALL EMP 10 ENG 2 \$250-\$500K

OMEGA LABORATORIES INC
HAVERHILL ST ROWLEY MA 01969.....617-948-7757
C WATSON JR EMP 25 ENG 4 \$1,000-\$2,500K
AZ J Smith & Assoc Phoenix.....602-267-0981
CA R F Assoc Palo Alto.....415-494-3331
CA R F Assoc LA.....213-478-1586
CO J Smith & Assoc Colo Springs.....303-597-5343
FL Southeastern Comp Sales
Clearwater.....813-447-1911
GA Southeastern Comp Sales Atlanta.....404-451-5353
MA Torrey Assoc No Andover.....617-687-0099
MI Microsales Plymouth.....313-482-1229
NM J Smith & Assoc Albuquerque.....505-265-3406
NY Eastern Metro Assoc Plainview.....516-931-1414
OH Microsales Centerville.....513-433-8121
PA Microsales Pittsburgh.....412-344-5751
TX Texas Avionics Dallas.....214-368-3566
UT J Smith & Assoc Murray.....801-272-3641
VA Vanguard Eng Sales Alexandria.....703-768-1600
WA Datacom Assoc Seattle.....206-288-2525

OMEGA LEADS INC 1509 COLORADO
AVE SANTA MONICA CA 90404.....213-346-6786
J SWEET EMP 25 ENG 2

OMNIBYTE CORP 245 W ROOSEVELT
BLD 1-5 WEST CHICAGO IL 60185.....312-231-6880
M HANSEN EMP 35 ENG 5 \$5,000-\$10,000K

AZ Frontier Technology Scottsdale.....602-998-4438
CA Applied Micro Technology Agoura.....818-889-3360
CA Zytronix Inc Santa Clara.....408-730-1289
CO Davis Assoc Denver.....303-761-7980
CT Digital Sales Assoc Hamden.....203-248-3641
DE Denco Data Equip Norristown PA.....215-630-8990
FL Reynolds & Assoc Melbourne.....305-259-7000
GA Reynolds & Assoc Acworth.....800-255-1965
IL Ad Tech Inc Park Ridge.....312-692-7320
MD Rep-tron Inc Baltimore.....301-799-7490
MA Digital Sales Assoc Waltham.....617-899-4300
MI Infinity Inc Southfield.....313-557-7230
MN Jen-Ray Systems Mpls.....612-831-5060
NJ Winter Assoc Boonton.....201-334-3434
NY E F Sales Caledonia.....716-538-4754
NC Reynolds & Assoc Winston Salem.....800-255-1965
OH Infinity Inc Dayton.....612-294-1264
PA Infinity Pittsburgh.....412-821-6389
TX Dyna Marketing Irving.....214-438-6528
WA Marva & Assoc Bellevue.....206-641-3535
FR Finnann Engrd Prods Ltd
Scarborough ON.....416-438-6070
FR Computer Overseas Corp Chicago.....312-332-3272

OMNIOLOGIC INC 125 WELLS
AVE S BOX 87 RENTON WA 98055
TWX 499-4045.....206-271-2000
D SHANE EMP 21 ENG 5 \$1,000-\$2,500K

OMNIPRINT INC 1188 ELKO DR
SUNNYVALE CA 94089 TWX 350165.....408-745-6400
F KAZI EMP 16 ENG 4 \$1,000-\$2,500K

CA I/O Sales Mtn View.....415-968-1080
IL Coombs Assoc Arlington Hts.....312-439-9810
MI Carter McCormick & Peirce
Farmington Hills.....313-477-7700
NJ Marlin Data Fords.....201-738-7200
TX Thorson Co Dallas.....214-233-5744

OMNI RESOURCES CORP 50 HOWE AVE
MILLBURY MA 01527
TWX 710-340-7688.....617-865-4451
EMP 50 \$5,000-\$10,000K

OMRON ELECTRONICS INC ONE
E COMMERCIAL DR SCHAUMBURG
IL 60195 TWX 25-4437.....312-843-7900
EMP 120 ENG 10 OVER \$10,000K
CA Omron Electronics Cupertino.....408-255-9231

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MI Omron Electronics Livonia	313-476-0760
OH Omron Electronics Fairborn	513-878-1507
PA Omron Electronics Wayne	215-964-9376
FR Omron Electronics Scarborough ON	416-298-1451

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BANNOCKBURN IL 60015
TWX 757024 312-295-2800

F BRETCHT EMP 130 ENG 15 OVER \$10,000K	
CA Oneac Corp San Diego	619-560-7188
CA Oneac Corp Sunnyvale	408-730-2549
CT Oneac Corp Litchfield	203-567-4206
FL Oneac Corp Longwood	305-831-6802
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MA Oneac Corp Woburn	617-935-3032
MN Oneac Corp West St Paul	612-457-0903
NJ Oneac Corp Montclair	201-744-6728
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OH Oneac Corp Springfield	513-399-5485
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WA Oneac Corp Seattle	206-822-2327
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FR Oneac Corp Vancouver BC	604-681-2520

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CA Schlines Rep Inc Reseda	818-344-0277
CA TLC Santa Clara	408-730-1428
CO Electronic Power Solutions Monument	303-488-3349
ID Electronic Power Solutions Boise	208-322-5660
IL Powr-Con Inc Rolling Meadows	312-831-6802
MD Data Sys Mktg Lanham	301-577-3700
MI Pamden Plymouth	313-453-2060
MN TG Power Sys West St Paul	612-457-0903
NJ Data Sys Mktg Paramus	201-599-0570
NY Data Sys Mktg West Islip	516-225-1140
OR Stand-By-One Milwaukee	503-653-5248
TX Hi Tech Mktg Assoc Garland	214-495-3986
TX Hitech Marketing Austin	512-482-8443

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D SMITH EMP 50 ENG 2 \$1,000-\$2,500K	
CA Carol Foster Co & Assoc Roseville	916-782-8068
CO Electro Marketing Westminster	303-429-3070
MD Mid-Atlantic Sales Silver Spring	301-593-7749
MA W B Pray Sales Northboro	617-393-3434
MN John E M Anderson Co Minneapolis	612-823-6459
MO Nevco Inc N Kan City	816-421-1751
NJ Mike Oberst Assoc Phila	215-743-2512
NY Warren Kaufman & Assoc Rochester	716-266-2728
NC Tom Adams Assoc Greensboro	919-272-6838
TX Berthold Sales Co Dallas	214-328-0067

ONSET COMPUTER CORP 199 MAIN ST BOX 1016 NORTH FALMOUTH MA 02556	617-563-2267
L HOCKER EMP 6 ENG 2 \$250-\$500K	

OPAMP LABS INC 1033 N SYCAMORE AVE LOS ANGELES CA 90038	213-934-3566
I LOSMADRY EMP 12 ENG 2 \$5,000-\$10,000K	

OPTEK TECHNOLOGY INC 345 INDUSTRIAL BLVD MCKINNEY TX 75069 TWX 910-860-5625	214-542-9461
J TRAUTWEIN EMP 550 ENG 18 OVER \$10,000K	
AZ W Earl Scottsdale	602-994-3813
CA Uni Rep Escondido	619-292-9001
CA Criterion Sales Santa Clara	408-988-6300
CO Waugaman Assoc Wheat Ridge	303-423-1020
FL APM Assoc Ft Lauderdale	305-565-0056
IL KMA Sales Co Rolling Meadows	312-398-5300
IN J And W Sales Indpls	317-842-3740
KS Thunderbird Wichita	316-684-3941
MA Child-Younger Assoc Burlington	617-273-1582
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NY Win-Cor Elctns Manhasset	516-627-9474
NC Electro-Mech Raleigh	919-851-8165
OH Norm Case Rocky River	216-333-0400
OR Vantage Corp Portland	503-292-6218
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UT Waugaman Assoc SLC	801-467-4263
WA Vantage Corp Bellevue	206-455-3460
WI KMA Sales Milwaukee	414-259-1771

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CA Anthem Elect Tustin	714-730-8000
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CA Aved Inc Tustin	714-730-5848

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AZ Qualtech Inc Tempe	602-967-4655
CA Datacom Solution Inc Cypress	213-402-2666
CA Thorson West Mt View	415-964-9300
FL Flex Comm Winter Spring	305-699-0250
GA Flex Comm Atlanta	404-252-1145
MD Marketing Tech & Sales Gaithersburg	301-921-4211
MA IMF Sales Assoc Wakefield	617-245-8900
NY Lightcomm Sis Assoc New York	212-807-8924
TX Yeager Enterprises Houston	713-271-8104
FR Laser Fiber Optic Ltd Ottawa ON	613-746-9079

OPTICAL COATING LAB INC 2789 NORTHPOINT PKWY SANTA ROSA CA 95407-7397	
TXW 510-744-2083	707-545-6440
M DOUGHERTY EMP 850 ENG 100 OVER \$10,000K	

OPTICAL DATA SYSTEMS INC
1226 EXCHANGE DR RICHARDSON TX 75081 214-234-6400
J HEAD
ADV PG 293

OPTICAL DEVICES INC 805 VIA ALONDRA CAMARILLO CA 93010 TWX 18-2233	805-987-8801
J NOELLERT	

OPTICAL ELECTRONICS INC 3150 E 46 ST BOX 11140 TUCSON AZ 85734 TWX 283347	602-624-8358
S GERDES EMP 22 ENG 3 \$500-\$1,000K	

OPTICAL FIBER TECHNOLOGIES/OFTI BOX 148 NUTTING LAKE MA 01865 TWX 948-288	617-663-6629
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OPTIFAB INC 1550 W VAN BUREN PHOENIX AZ 85007 TWX 683-5036	602-271-0921
R LOEB EMP 110 ENG 7 \$5,000-\$10,000K	
AZ Ian McKee & Assoc Phoenix	602-992-4897
IL JMS Assoc Glenview	312-729-4796
MA Micro Technology Framingham	617-875-3975

DISTRIBUTORS	
CA Elmec Assoc Vista	714-941-0208
CA CA Recht Assoc Los Altos	415-964-6321
MI TPM & Assoc Farmington Hills	313-851-2784
NJ Production Tech Sparta	201-729-7159
PA PSA Inc Treviso	215-245-0513
WA Vantage Corp Bellevue	206-455-3460

OPTIMA DIV SCIENTIFIC-ATLANTA INC 2166 MOUNTAIN IND BLVD TUCKER GA 30084	
TXW 810-766-3967	404-939-6340
EMP 260 ENG 10	

AZ Arccom Sales Scottsdale	602-947-5745
CA Scientific-Atlanta Santa Fe Springs	213-949-9302
CO Matthews & Assoc Denver	303-450-6476
FL OEM Marketing Orlando	305-299-1000
GA Scientific-Atlanta Atlanta	404-449-2530
IL Kenneth W Meyers Co Schaumburg	312-882-4808
KS BC Elect Sales 1140 Adams KC	913-342-1211
MD Beacon Elect Randallstown	800-336-3747
MI L H Dickelman Co Southfield	313-353-8210
MO BC Elect Sales Bridgetown	314-291-1101
NJ Scientific-Atlanta Fair Lawn	201-794-3100
NY Apex Assoc Rochester	716-254-6050
OH C A Robinson Co Cleveland	216-743-6044
TX Matthews & Assoc Dallas	214-248-7881
VA Beacon North Fairfax	703-591-1300
WA Huntley Assoc Everett	206-353-1833
FR Scientific-Atlanta Can Ltd Mississauga ON	416-677-6555

OPTIMEX INC 435 OAKMEAD PKWY SUNNYVALE CA 94086	
TXW 910-339-9615	408-737-7373
T JARRETT EMP 110 ENG 40 OVER \$10,000K	

OPTIMIZED DEVICES INC 220 MARBLE AVE PLEASANTVILLE NY 10570	914-769-6100
A ZUCH EMP 30 ENG 5 \$500-\$1,000K	

OPT INDUSTRIES INC 300 RED SCHOOL LA PHILLIPSBURG NJ 08865 TWX 510-235-2920	201-454-2600
S FISHER EMP 255 ENG 18 OVER \$10,000K	
CT Janco Technology Windsor	203-743-9436
FL EMS Inc Melbourne	305-724-1027
FL EMS Inc Plantation	305-587-7146
FL EMS Inc Sarasota	813-923-2804
IL LGS Electronics Chicago	312-456-9616
MA Alan Lupton Assoc No Chelmsford	617-251-7446
MN White Sales Co Mnpls	612-755-0855
NH Alan Lupton Assoc Goffstown	603-497-2224
NY Alan Lupton Assoc Rochester	716-482-7700
NY Janco Technology Palisades Pk NJ	201-941-4008
VA Vanguard Engineering Sales Alexandria	703-768-1660

OPTOELECTRONICS INC 5821 NE 14 AVE FT LAUDERDALE FL 33334 TWX 514849	305-771-2050
L HUFFT EMP 25 ENG 2 \$2,500-\$5,000K	
CA Edmo Canyon County	805-252-9476
FL EME II Melbourne	305-259-2711
MD Eastern Instr Burtonsville	301-384-8500
MI Webster Assoc Rochester	313-375-0420
TX M Hutton & Co Dallas	214-484-0580

OPTO-22 15461 E SPRINGDALE ST HUNTINGTON BEACH CA 92649
TWX 692386 714-891-5861
P LORO
ADV PG 398

FR System Devices London UK	44-046-267-0633
FR Metronik GmbH Munchener W Germany	49-089/6114063
FR Mulder-Hardenberg B V Haarlem Holland	31-23-319184
FR Beckman Instruments Milano Italy	39-2-68 88 951
FR Eagle Elec Co Pty Ltd Cape Town S Africa	27-21-45-1421
FR Electrona-Sievert Farsta Sweden	46 08/93 08 80
FR Rapid Recall London UK	44-494-26271

FR Hawker Siddeley Switchgear Pty Ltd Campbelltown NSW Australia	61-046-25-0251
FR AWA New Zealand Porirua NZ	011-64-43-75069
FR Asahi Electronics Kitakyushu City Japan	81-93-511-6471
FR Interlog Ltda Santiago Chile	56-2-2253689
FR Teletec-Airtronix Paris France	33-1-45-34-75-35
FR Elkom AG Buzen, Switz	41-057-46-21-91

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AL Industrial Elec Supply Birmingham	205-956-8504
AR Carlton Bates Little Rock	501-562-9100
AR Carlton Bates Ft Smith	501-646-8201
CA Hamilton/Avnet San Diego	714-571-7510
FL Professional Control Clearwater	813-446-1990
GA Professional Control Atlanta	404-449-4577
IL GBL Gould Elk Grove Vlg	312-593-3220
IL Jim Otis & Assoc Moline	309-762-9311
IL Pyramid Controls Addison	312-543-0110
LA Carlton Bates Shreveport	318-636-9975
MD Thermal Devices Mt Airy	301-831-7550
MD Automation Ind Control Baltimore	301-944-8400
MA Martindale Assoc N Redding	617-664-0355
MI McNaughton-McKay Ann Arbor	313-995-9515
MI McNaughton-McKay Detroit	313-399-7500
MN Cassidy Elect Mpls	612-944-0100
MN Kim Controls Mnpls	612-780-2991
NE Kim Controls Omaha	402-553-6825
NJ Norman Bragar Newark	201-344-1100
NY Livera-Polk Assoc Glen Head	516-759-9300
NY Great Lakes Controls Rochester	716-585-6385
NC Regan Controls Charlotte	704-523-9137
NC Regan Controls Raleigh	919-782-7775
OH I P D Centerville	513-435-2086
OH Richard Equipment Cincinnati	513-271-8666
OH Great Lakes Controls Cleveland	216-582-0020
OH Great Lakes Controls Columbus	614-451-7872
OK Quality Comps Tulsa	918-664-8812
OK Carlton Bates Tulsa	918-250-1626
OR Pacific Control Supply Portland	503-249-2033
PA Applied Controls Philadelphia	215-265-3832
PA Customized Control Pittsburgh	412-921-3196
PA Great Lakes Controls Pittsburgh	412-341-8922
SC Regan Controls Greer	803-879-7377
TN Regan Controls Knoxville	615-588-7157
TN Carlton Bates Memphis	901-365-3539
TN Carlton Bates Nashville	615-244-3562
TX Quality Comps Addison	214-733-4300
TX Quality Comps Houston	713-240-2255
TX Quality Comps Austin	512-835-0220
VA Automation Ind Control Richmond	804-741-3253
VA Cascade Controls Seattle	206-881-8843
WV Great Lakes Controls Charleston	614-451-7872
WI Taylor Elec Mequon	414-241-4321
WI Professional Control Milwaukee	414-251-3000
FR Intek Elect Vancouver BC	604-324-6831
FR Energesis-Control Calgary AB	403-486-3433
FR Energesis-Control Vancouver BC	604-980-8335
FR Energesis-Control Toronto ON	416-294-5360
FR Energesis-Control Regina SK	306-359-1066
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ORA ELECTRONICS DIV ALLIANCE RSCH CORP 20120 PLUMMER ST BOX 4029 CHATSWORTH CA 91313 TWX 371-8682	818-701-5848
R GOESINYA EMP 67 ENG 7 OVER \$10,000K	

ORAM ELECTRONICS INC RTE 22 PUTNAM BUSINESS PK BREWSTER NY 10509-9587 TWX 628-382-40	914-279-2966
V GIANGUZZI EMP 28 ENG 5 \$1,000-\$2,500K	
FR Subtec Ltd	613-738-1470

ORBIC CONTROLS 7853 BALBOA AVE SAN DIEGO CA 92111	619-268-0064
J DOLAN EMP 4 ENG 1 UP TO \$100K	

ORBIT INDUSTRIES DIV COUNTIES INDUSTRIES 2670 LOCKHEED WAY CARSON CITY NV 89701	702-882-6123
J COUNTIS EMP 12 ENG 1 UP TO \$100K	

ORBIT INSTRUMENT CORP 80 CABOT CT HAUPPAUGE NY 11788	
TXW 510-221-2122	516-435-8300
D SUNSHINE EMP 140 ENG 8 OVER \$10,000K	
CA Orbit Inst Corp Cypress	714-527-0561

ORBIT SEMICONDUCTOR INC 1230 BORDEAUX DR SUNNYVALE CA 94089 TWX 910-339-9307	408-744-1800
D MULLIGAN EMP 63 ENG 10 \$5,000-\$10,000K	

OREGON SOFTWARE INC 6915 SW MACADAM AVE PORTLAND OR 97219 TWX 910-464-4779	503-245-2202
M ERICHSEN EMP 40 ENG 8 \$1,000-\$2,500K	

ORGANIC PRODUCTS CO BOX 150428 IRVING TX 75015	214-438-7321
J MITCHELL EMP 8 \$250-\$500K	
TX Teamwork, Inc Box 34465 Dallas	243-5881

ORIENTAL MOTOR USA CORP 2701 TOLEDO ST TORRANCE CA 90503 TWX 664-2511	213-515-2264
J ITONAGA EMP 20 ENG 4	
CA Oriental Motor USA Santa Clara	408-988-2655
IL Oriental Motor USA Rolling Meadows	312-577-0310
MA Oriental Motor USA Hudson	617-568-8515

NJ Oriental Motor USA Fairfield.....201-882-0480

ORIGINAL ELECTRIC MFG CO INC
123 B LINCOLN BLVD MIDDLESEX
NJ 08846 TWX 910-380-0960.....201-271-5770
L MANCINELLI EMP 200 ENG 6 OVER \$10,000K
AL R & G Electronics Huntsville.....205-882-0208
CA Forbes Pacific Newport Beach.....714-548-0758
CA Wright Assoc San Rafael.....415-457-9940
CO Dynatech Inc Englewood.....303-773-2830
FL R C Simon & Co Lighthouse Pt.....305-941-2757
IL C L Greenslade Sales Arlington.....312-593-3450
MD Phoenix Elctn Sales Phoenix.....301-628-0066
NJ Ventronics Inc Kenilworth.....201-272-9262
NY Kahgan Sales Corp Hempstead.....516-538-2300
NC Engineering Devices Inc Cary.....919-469-9323
OH Glesting & Assoc Cincinnati.....513-385-1105
TX Oler & Menelaides Inc Dallas.....214-361-8876
WA A/D Elctns Kirkland.....206-821-3205
FR ASTEC Comps Ltd Concord, ON.....416-669-4022

DISTRIBUTORS
CA Cal-Abco Woodland Hills.....800-321-4484
CA Cal-Abco Costa Mesa.....714-546-7878
NJ Relay Specialties Oakland.....201-337-1000

O-R INDUSTRIES INC 50 FOUNTAIN
ST FRAMINGHAM MA 01701.....617-872-3344
AZ Prudential Overall Phoenix.....602-233-1994
CA Com-Kyl Sunnyvale.....408-734-9660
CA H & S Industries Covina.....818-331-0088
CO V-H Technology Denver.....303-778-8037
MN Thurston Assoc Mpls.....612-831-5904
NM Sullivan Ind Albuquerque.....505-884-0877
OH Llederman Brough Glove Ft Wayne.....219-456-3535

ORIONICS DIV AMETEK 34368
E FRONTAGE RD BOZEMAN
MT 59715 TWX 910-963-2063.....406-586-8256
J CHRISTOPHER EMP 30 ENG 5
CO C-Tech Buena Vista.....303-395-2025
KS SPS Assoc Ltd Panama.....913-764-4460
WA Cunningham Sales Edmonds.....206-771-4848

ORION INSTRUMENTS 702 MARSHALL
ST REDWOOD CITY CA 94064
TWX 530942.....415-361-8883
M YUEN EMP 24 ENG 5 \$2,500-\$5,000K
CA Advanced Prod Sales Westlake Vlg.....818-706-8351
NH MJT Assoc Nashua.....603-889-5373
PA John Bell Assoc Philadelphia.....215-924-6228

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22 COUNTY AIRPORT RIO GRANDE
NJ 08242.....609-886-1111
R VAUGHN EMP 22 ENG 1 \$5,000-\$10,000K
CA Calif Tech Services Tarzana.....213-343-3131
CA Calif Tech Services Santa Clara.....408-496-1155
IL Special Electric Co Northfield.....312-446-5113
MI Newscott Co Needham Hts.....617-444-1923
MI Special Electric Co Roseville.....313-774-9170
MO Special Electric Co St Louis.....314-962-1150
NJ Andrews & Andrews Morristown.....201-569-8800
NY Andrews & Andrews Huntington.....516-692-8686
OH Special Electric Co Cleveland.....216-441-5244
PA Freedman-Malta Assoc King
of Prussia.....215-337-9211
VA A B Keger Co Roanoke.....703-989-4738
WI Special Electric Co Milwaukee.....414-383-6370

ORMEC SYSTEMS CORP 19 LINDEN
PARK ROCHESTER NY 14625.....716-385-3520
A PRESHER EMP 16 ENG 9 \$1,000-\$2,500K

ORTEL CORP 2015 W CHESTNUT ST
ALHAMBRA CA 91803 TWX 752434.....818-281-3636
B WARE

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851 W 18 ST COSTA MESA
CA 92627 TWX 910-596-1367.....714-631-7800
G KELLY EMP 60 ENG 9 \$5,000-\$10,000K
AZ Foley Tallent & Lee Tempe.....602-894-2345
CA Bonding Research Campbell.....408-559-5700
FL Orthodyne Panama City.....704-541-0045
MA Compatible Components W Boylston.....617-835-2520
TX Bouco Sales Assoc Dallas.....214-247-6708

OSBORNE/MCGRAW-HILL 2600
TENTH ST BERKELEY CA 94710
TWX 910-366-7277.....415-548-2805
EMP 60 ENG 2 \$5,000-\$10,000K

OSBORNE TRANSFORMER CORP
19636 DERBY ST DETROIT
MI 48203.....313-368-4136
J OSBORNE EMP 25 ENG 2 \$1,000-\$2,500K

OSCILLATEK DIV K&L MICROWAVE
620 N LINDENWOOD DR OLATHE
KS 66062 TWX 437045.....913-829-1777
B GOODWIN EMP 37 ENG 5 \$1,000-\$2,500K
ADV PG 303

CA Horne Electro Sales Palo Alto.....415-494-6777
MN Barnes Sales Assoc Chanhassen.....612-476-2907
NY C R Mayer Co Huntington.....516-921-7876

OSHINO ELECTRIC LAMP WORKS LTD
2-52 MINAMI SHINAGAWA
SHINAGAWA KU TOKYO JAPAN
TWX NT 242-2117.....03-471-8548
T KOYAMA EMP 300 ENG 20 \$5,000-\$10,000K
ADV PGS 223, 238

CA Wamco Inc Fountain Valley.....714-545-5560
FR Oshino Lamps Europe GmbH
Nurnberg W Ger.....0911 558423

OSMONICS INC HYTRX FILTERS DIV
5951 CLEARWATER DR MINNETONKA
MN 55343 TWX 29-0847.....612-933-2277
P MUSGROVE EMP 240 ENG 7 \$5,000-\$10,000K

OSLO CONTROLS INC 328 INDUSTRIAL
AVE CHESHIRE CT 06410
TWX 710-455-3774.....203-272-2794
L RAKOWSKI
AZ Semi Systems Scottsdale.....602-991-1151
CA Westech Sales Mt View.....415-961-1422
CA MASCO Brea.....714-529-0866
CO Computech Marketing Englewood.....303-773-3981
CT Zaslows Sales Co Bloomfield.....203-242-7781
FL CBC Electronics Longwood.....305-831-5380
IL W-G Controls Lisle.....312-963-5954
MD L G White & Co Silver Spring.....301-434-1555
MI Greiner Assoc Grosse Pointe Pk.....313-499-0188
MN Jos-Co/Mellus Inc Mpls.....612-861-3343
MO Hill & Co Creve Coeur.....314-432-1136
NJ Grimm Siegel Assoc West Caldwell.....201-675-9300
NY Canavan-Scanlon Assoc Syracuse.....315-437-1271
OH O H Bromberg & Assoc Cincinnati.....513-771-9333
PA White/Whiddett Co.....215-353-6343
TX Glidden Electric Equip Co Dallas.....214-341-0610
WA Jas H Andersen & Assoc
Mercer Island.....206-232-0484

DISTRIBUTORS
CA Pacific Switch Controls Van Nuys.....213-873-4802
CA Cypress Elect San Jose.....408-945-8400
CA California Switch Gardena.....213-770-2331
CA Electronic Supply Riverside.....714-787-9220
CT Century Electric Supply Shelton.....203-736-2684
CT Atlantic Switch Controls
Hartford.....203-527-7705
FL Switch Controls Lakeland.....813-844-7564
FL A A Electric Lakewood.....800-237-8274
IL Conectrix Inc Carol Stream.....800-323-5431
IL RM Elect Westmont.....312-323-9670
MA Impact Elect Canton.....617-821-1500
MI SPEMCO Switches St Clair Shores.....313-771-2700
MI Electronic Center Mpls.....612-371-5200
NJ Jerseyswitch Mt Laurel.....609-778-8190
NJ Relay Specialties Fairlawn.....201-797-3313
NY Switches Unltd Woodside.....212-478-5000
OH Cartessa Mfg Co Cincinnati.....513-738-4477
OH Ohioswitch Inc Columbus.....614-885-0313
TX Texaswitch Dallas.....214-357-1768
TX Geeco Sales Co Dallas.....214-341-0610
WI Taylor Electric Mequon.....414-241-4321
FR Distributronics Ponce PR.....809-843-3321

OSMONICS INC OSMO MEMBRANE
SYS DIV 5951 CLEARWATER DR
MINNETONKA MN 55343
TWX 29-0847.....612-933-2277
L COMB EMP 240 ENG 9 \$5,000-\$10,000K

OTTO CONTROLS DIV OTTO ENGRG INC
2 E MAIN ST CARPENTERSVILLE
IL 60110 TWX 722426.....312-428-7171
R SPARKS EMP 87 ENG 4 \$2,500-\$5,000K
CA Gabriel & Assoc Anaheim.....714-666-0660
FL Newell Hynes Assoc Ft Lauderdale.....305-761-1113
IL Rockford Controls Co Glen Ellyn.....312-469-6016
MA Newscott Co Needham Hts.....617-444-1923
MO Harris Hanson Co St Louis.....314-432-3611
NY Tyliniski Assoc Great Neck.....516-466-9070
OH Electro-Com Dayton.....513-898-5140
WA James Findlay Co Bellevue.....206-746-5400

OVENAIRE DIV ELECTRONIC
TECHNOLOGIES INC 706
FORREST ST CHARLOTTEVILLE
VA 22901 TWX 910-997-8053.....804-977-8050
A BELL EMP 150 ENG 7 \$5,000-\$10,000K
CA R L Assoc Van Nuys.....213-782-7826
CA Melvin Sales Co San Mateo.....415-349-7445
FL Ellis & Assoc Maitland.....305-645-1101
IN TX Sales Ft Wayne.....219-489-4447
MD Dickinson Sales Co Towson.....301-823-0923
MA Naton Assoc Milton.....617-698-0670
MN Countryman Assoc St Paul.....612-645-9151
NY Harry J White Co Cherry Hill.....609-428-4544
NY Eltech Sales Inc Paramus.....201-967-1309
NY Quality Components Inc Buffalo.....716-837-5430
NC L & D Inc Greensboro.....919-292-3201
TX W Pat Fralia Co Arlington.....817-640-9101
WA Carlyle Tech Sales Seattle.....206-575-6750
FR Vitel Elctns St Laurent PQ.....514-331-7393

OVEN INDUSTRIES INC BOX
290-191 HEMPT RD MECHANICSBURG
PA 17055.....717-766-0721
T NOLAN EMP 70 ENG 3 \$2,500-\$5,000K

OVERNIGHT ENGINEERING INC
1859 ANDREWS AVE SAN JOSE
CA 95124.....408-448-0462
L RIORDAN EMP 5

DISTRIBUTORS
CA Com-Kyl Sunnyvale.....408-734-9660
CA James Tools San Jose.....408-295-7288
CA Marshall Industries Canoga Park.....213-999-6570
CA Marshall Industries Sunnyvale.....408-739-8720
CA Marshall Industries Elmonte.....913-442-7204
CT Marshall Industries Wallingford.....203-285-3820
FL Kimco Boca Raton.....305-327-4133
GA Hi-Tec Tool & Equip Co Tucker.....404-493-4029
GA Marshall Industries Norcross.....404-925-1895
MA Marshall Industries Burlington.....617-272-8200
NJ Janel Inc Sterling.....201-647-5600
NJ Marshall Industries Mt Laurel.....609-778-8720
NY Marshall Industries Hauppauge.....516-273-1515
OH Marshall Industries Dayton.....513-236-8112
PA Gil Tec Broomall.....215-543-7200
PA Rosen Electronics Inc York.....717-843-3875
PA Glove Engr Co Norristown.....215-631-0726

OWL COMPUTERS INC 640 CREST DR
ENCINITAS CA 92024.....619-436-4214
K BALLARD

OXLEY DEVELOPMENTS CO LTD
PRIORY PARK ULVERSTON CUMBRIA
ENGLAND TWX 65141.....0229-52621
E MAGUIRE EMP 300 ENG 56
CA J T McFarland Assoc San Jose.....408-286-9333
CA West Inc Newport Beach.....714-852-9211
CT Abbott-Allison Co Branford.....203-481-0405
CT Oxley Inc Branford.....203-488-1033
FL Krebs Myton Longwood.....305-788-9333
IL Electro-Tech Mktg Assoc
Lincolnwood.....312-676-3151
MD Stitzer Assoc Baltimore.....301-823-2600
MN Bonament Heyda Co St Paul.....612-484-8531
NY R P Kennedy Co Rochester.....716-271-6322
PA Stitzer Assoc Paoli.....215-644-5500
TX Eagle Marketing Inc Richardson.....214-238-5383
WA Quest Marketing Bellevue.....206-747-9424
FR GEC Canada Ltd Mississauga ON.....416-624-8300
FR GEC Canada Ltd Montreal PQ.....514-733-9961

OZARK CIRCUITS INC 933 W CHASE
SPRINGFIELD MO 65804.....417-864-5004
J FARROW EMP 40 ENG 2 \$1,000-\$2,500K
IL K & R Sales Springfield.....217-529-5711
TX Del Tech Assoc Dallas.....214-661-0132

PACCOM 3928 148TH NE REDMOND
WA 98052 TWX 910-449-2973.....206-883-9200
R ANDERSON EMP 25 ENG 2 \$2,500-\$5,000K
CA Angle Assoc Irvine.....714-833-0692
FL R C Simon & Co Lighthouse Pt.....305-941-2757
GA Dixie Technical Mktg Norcross.....404-447-6832
IL Micro-Tex Inc Schaumburg.....312-885-1131
IN International Electronics Indpls.....317-257-8115
MI Osborn Sales West Bloomfield.....313-681-0265
MN High Tech Sales Assoc
Bloomington.....612-888-8088
MO Macrotech Glen Burnie.....301-437-5588
NY Advanced Components Corp
No Syracuse.....315-699-2671
OH Whit-Com Sales Vandalia.....513-898-5433
PA Industrial Components Corp
Lansdale.....215-368-3382
TX Pro-Comp Sales Co Arlington.....817-640-4336
WA Quadra Sales Redmond.....206-883-3550

DISTRIBUTORS
AL Resistacap Huntsville.....205-883-4270
CA Western Elect Supply Glendale.....213-246-4861
CA Diamond Electronics Irvine.....714-474-1181
CA Bond Electro Sales Westlake Vlg.....818-706-0322
CA Projections Unltd Santa Ana.....714-857-4422
CA Dow Pak Pasadena.....213-793-1487
CA Dunlop Electronics Sacramento.....916-444-8070
FL T C Pridmore Co Indialantic.....305-727-2491
FL B & R Electronic Supply Miami.....305-255-4510
IL Intertec Longwood.....305-834-7777
IL Royal Elect Inc Northbrook.....312-498-0935
MA Abbott Electronics Woburn.....617-935-2040
MI Empire Elect Clawson.....313-435-0460
MO Ric-tronics St Louis.....314-576-9816
NE Radio Equip Co Omaha.....402-341-7700
NJ Sintec Frenchtown.....201-996-4093
OR Radar Elect Portland.....503-233-3691
TX Ewing Electronics Richardson.....214-231-6725
WA Pacific Elect Seattle.....206-575-1050
WI Lakeview Electronics Meguon.....414-377-8250

PACE INC 9893 BREWERS CT LAUREL
MD 20707 TWX 87446.....301-490-9860
J BAUSELL
CA Tech-Ser Torrance.....213-320-8101
CA Tech-Ser Mt View.....415-969-9020
CO Sherwood Enterprises Longmont.....303-772-9081
FL Howard Assoc Ft Lauderdale.....800-432-5570
GA Mar-Tec Roswell.....404-992-0040
HI Honolulu Electronics Honolulu.....808-949-5564
IL Champion & Assoc Wauconda.....312-526-3700
MD Roy Cook & Assoc Timonium.....301-252-9056
MA Linden Sales Co Burlington.....617-272-5100
MI Murray Percival Co Royal Oak.....313-548-1971
MN Prod Automation Corp Minnetonka.....612-935-1414
MO Prod Automation Corp KC.....816-737-3030
NY Wingate & Assoc Sidney.....800-942-0116
NC South States Mktg Inc Raleigh.....919-781-3220
OH Perry Lohse Co Mentor.....216-255-1992
PA Glove Engineering Co Norristown.....215-631-0726
TX Pac South Richardson.....214-231-3979
WA Doland Co Bellevue.....206-454-4952
FR Arbell Inc Burlington Ont.....416-632-9494

DISTRIBUTORS
CA Nova Electronics Glendale.....602-938-1808
IL Ames Supply Co Downers Grove.....312-964-2440
IL Communications Assoc Joliet.....815-744-6444

PACER INDUSTRIES INC 1450
FIRST AV CHIPPEWA FALLS
WI 54729 TWX 284755.....715-723-1141
S PRINCE

PACE TRANSDUCER CO DIV CJ
INSTR INC BOX 834 TARZANA
CA 91356.....818-996-4131
M CANTOR EMP 21 ENG 3 \$1,000-\$2,500K

PACE WIRE & CABLE CORP
3590 OCEANSIDE RD OCEANSIDE
NY 11572.....516-678-2275
S STADLEN EMP 31 ENG 3 \$2,500-\$5,000K

PACIFIC COMMUNICATIONS INC
2041 A GRAND AVE S SANTA ANA
CA 92705.....714-546-0147
R CAWLEY EMP 50 ENG 6 \$1,000-\$2,500K

PACIFIC ELECTRICORD CO
747 W REDONDO BEACH BLVD
GARDENA CA 90247
TWX 910-346-7619.....213-532-6600
W FIECHTNER EMP 1000 ENG 10 OVER \$10,000K
CA AAA Sales El Cajon.....714-565-0122
CA Cindel Inc Santa Clara.....408-988-8331
CO D/V Assoc Denver.....303-429-9369
GA Leviton Mfg Co Atlanta.....404-691-9303
IL Leviton Mfg Co Bensenville.....312-766-4100
MA Browning-Naughton & Co Clinton.....617-365-6364
NJ Danco Elctn Sales Corp
Cherry Hill.....609-424-5590
NY N Eastern Electronics Cazenovia.....315-475-2187
OH Leviton Mfg Co Cleveland.....216-831-0615
OR Components West Tigard.....503-684-1671
TX Allied Components Dallas.....214-238-0408
UT D/V Assoc SLC.....801-486-4251
WA Components West Redmond.....206-885-5880

DISTRIBUTORS

CA EL Com San Diego.....714-578-0900
CA EL Com Cerritos.....213-404-2961
CA Storm Prods Inglewood.....213-649-6141
CA Storm Prods Santa Clara.....408-749-9400
CA Rose Elect Burlingame.....415-348-2740
CA Components Center Santa Clara.....408-988-3751
CO Integrated Elect Denver.....303-534-6121
CO Storm Prods Broomfield.....303-466-1991
CO Industrial Englewood.....303-694-0904
CT E J Stephens E Hartford.....203-688-1927
IL Storm Prods Hinsdale.....312-323-9121
MD Pyttinrich Indus Savage.....301-792-0780
MA Colonial Wire & Cable Lowell.....617-459-6400
NY ABL Elect Sply Yorktown Hts.....914-862-2253
PA Pyttinrich Indus Montgomeryville.....215-643-8250
TX Storm Prods Dallas.....214-330-1381
WA Storm Prods Woodinville.....206-488-7400

PACIFIC ELECTRO DYNAMICS INC
11465 WILLOWS RD REDMOND
WA 98052 TWX 910-449-2907.....206-881-1700
E SIROKY EMP 320 ENG 21 OVER \$10,000K
CA Pacific Electro Dynamics
Flintridge.....818-790-8695
CA Frequency Control & Assoc
San Jose.....408-446-0200
NJ Pacific Electro Dynamics
Flanders.....201-927-1867
TX RDD Entrps Bedford.....817-498-3666

PACIFIC ELECTRON CORP 2008
S YALE ST SANTA ANA CA 92704
TWX 181450.....714-546-4405
J SCHMITT EMP 21 ENG 4
MI Pacific Electron Corp Sterling
Hts.....313-977-1935

PACIFIC INDUSTRIES DIV D'ANGELO
ENTRPS 10921 FRANKLIN AVE
FRANKLIN PARK IL 60131.....312-451-1505
J COCAT EMP 50 ENG 2 \$1,000-\$2,500K
MI Component Assoc Southfield.....313-557-3232

PACIFIC INSTRUMENTS INC
215 MASON CIRCLE CONCORD
CA 94520 TWX 910-481-9977.....415-827-9010
B WAGNER EMP 52 ENG 5
AL Lee Assocs Huntsville.....205-533-5896
AZ Vic Myers Assoc Phoenix.....602-241-9324
CA L L Stokes San Diego.....619-452-1600
CA Dale-Dahl Assoc Walnut Creek.....415-933-9595
CO Vic Myers Assoc Ft Collins.....303-629-9676
CT JBL Assoc Hamden.....203-281-3161
FL Wade H Boggs Inc Maitland.....305-647-2226
IL EIA Inc Park Ridge.....312-298-2920
IN EIA Inc Indpls.....317-257-7321
MD Gans & Pugh Assocs Arlington.....703-527-3262
MA Emco Marblehead.....617-639-0754
MI Anderson-Elects Farmington Hill.....313-553-7600
NJ Instrumentation Products Emerson.....201-265-6330
NM Vic Myers Assoc Albuquerque.....505-884-6878
NY L-RP Corp Latham.....518-785-5032
OH R-T Corp Dayton.....513-253-6175
PA Roberts Eng Radnor.....215-688-6525
TN Lee Assocs Nashville.....205-533-5896
TX T Houston Arlington.....817-265-2931
UT Vic Myers Assoc SLC.....801-581-1760
VA Gans & Pugh Assocs Arlington.....703-527-3262
WA Tasco Inc Bellevue.....206-453-1414

PACIFIC MICROCOMPUTERS INC
160 CHESTERFIELD CARDIFF
CA 92007 TWX 701-578.....619-436-8649
P MALOY EMP 35 ENG 8 \$2,500-\$5,000K

PACIFIC OPTICAL DIV RECON
OPTICAL INC 2660 COLUMBIA ST
TORRANCE CA 90503
TWX 910-349-7530.....213-328-5840
A DOS SANTOS EMP 135 ENG 18

PACIFIC POWER SOURCE CORP
15122 BOLSA CHICA ST
HUNTINGTON BEACH CA 92649.....714-898-2691
R ENGLE EMP 80 ENG 10
CA Applied Systems Sunnyvale.....408-773-0616
CA Trans World Trade LA.....213-476-8406
KS Ramsey Assoc Lenexa.....913-541-1007
MA Intersell Inc Burlington.....617-273-3844
MN Loren Green Assoc Mnpls.....612-571-6666
MO Ramsey Assoc Maryland Hts.....314-878-5042
NY Bytec Reps Wantagh.....516-826-5458
NY D B Assoc Fayetteville.....315-446-0220
VA L & F Mktg Fairfax.....703-272-3705
WA Al Smith Bellevue.....206-746-6770

PACIFIC RESISTOR CO 18300
OXNARD ST TARZANA CA 91356.....818-345-7811

PACIFIC SCIENTIFIC MOTOR
& CONTROL DIV BOX 106
ROCKFORD IL 61105 TWX 386743.....815-226-3030
EMP 400 ENG 20 OVER \$10,000K
CA Morgan Johnson Co Tustin.....714-832-7282
CA Motion Systems San Jose.....408-246-0641
CO Omega Ltd Englewood.....303-762-1921
CT E S Williams Co Ridgefield.....203-438-7474
FL Hilco Inc Davenport.....813-422-3908
GA Hilco Inc Dunwoody.....404-393-1771
IL Clarkson Engrg Co Chicago.....312-286-2314
IN Control Sales Beach Grove.....317-786-2272
MD Tyler Griffin Co Columbia.....301-995-1215
MA Sturdy Corp Wellesley Hills.....617-235-2330
MI Alexander-Prendergast Farmington
Hills.....313-553-5920
MN R R Murnane St Paul.....612-646-7106
NY Controlled Motion Prods
Co Pittsford.....716-381-1933
NC Hilco Inc Charlotte.....704-568-3938
OH Servo-Mark Inc Cleveland.....216-871-2353
OR Controltek Sales Ltd Portland.....503-641-0877
PA Tyler Griffin Co Paoli.....215-647-1550
SC Hilco Inc Mt Pleasant.....803-883-9633
TX Gribble Sales Lewisville.....214-221-5109
WA Controltek Sales Ltd Spokane.....509-922-2971
WI Wm F Schreiber Co Milwaukee.....414-545-7800

DISTRIBUTORS

AL Southern Generators Greenville.....205-382-8453
AZ Generator City Inc Tempe.....602-966-9907
CA Gen-Co Tunjunga.....213-362-6500
CO Generator City Denver.....303-455-2800
FL R B Grove Inc Miami.....305-854-5420
GA Blalock Machine College Pk.....404-766-2632
IL Eian Enterprises Carol Stream.....312-690-8382
IN Van's Carburetor & Elec Indpls.....317-634-5651
KS LSC Inc Shawnee Mission.....913-362-2121
LA Southern Generators Baton Rouge.....504-291-0223
MD Frank Quinn Co Colmar Manor.....301-927-7878
MD Curtis Engine & Equip Baltimore.....301-633-5161
MA Heath Consultants Stoughton.....617-344-1400
MA Layton Industries N Quincy.....617-328-9690
MI Stand by Power Novi.....313-348-6400
MN Flaherty Equip Corp Mnpls.....612-338-8796
MO NJ Assoc St Louis.....314-645-2622
NE Anderson Equipment Co Omaha.....402-558-1200
NJ R C Equip Co Gloucester City.....609-742-0220
NY Ronco Comm & Elec Tonawanda.....716-873-0760
NC Commercial Hydraulics Charlotte.....704-377-1312
NC Carolina Generator Raleigh.....919-772-7783
OH Great Lakes Truck Equip
Inc Oakwood Vlg.....216-439-4805
PA Palco Inc Latrobe.....412-537-3397
TN Hobbs Equipment Nashville.....615-244-4933
TX Lightbourne Eqp Co Houston.....214-233-5151
TX Harrison Equipment Houston.....713-879-2600
WA Taylor & Assoc Bainbridge Island.....206-842-2209
WI Morley-Murphy Co Green Bay.....414-499-3171

PAC-TEC CORP SUB LAFRANCE CORP
8420 EXECUTIVE AVE
PHILADELPHIA PA 19153
TWX 506082.....215-365-8400
EMP 350 ENG 10 \$5,000-\$10,000K

DISTRIBUTORS

AZ Gramer & Co Phoenix.....602-995-9455
CA R Roach Buena Park.....714-522-6410
CO High Plains Mktg Denver.....303-792-2020
CT J O'Connor Danbury.....203-790-4615
IL J Shipp Sleepy Hollow.....312-428-6364
MO Harris-Hanson Corp St Louis.....314-432-3611
NJ B Boucot Pennsauken.....609-665-0881
OH B Brown Perysburgh PA.....419-874-1110
TX D Lurwick Bedford.....817-540-0236
WA M Wertenberger Federal Way.....206-838-1180
WI E Sabish Appleton.....414-731-7212

PAINE INSTRUMENTS INC 2401
S BAYVIEW ST SEATTLE WA 98144
TWX 910-444-2164.....800-426-0366
D STEDNICK EMP 69 ENG 5
CA IFM Inc Milpitas.....408-945-5290
CA Elotek Systems Laguna Hills.....714-830-4856
CO A Bissell Co Boulder.....303-444-1173
FL Physimetrix Inc Orlando.....305-894-8081
GA Physimetrix Atlanta.....404-955-1055
IN Carter McCormick & Peirce Indpls.....317-844-4175
MD Electronic Mktg Assoc Rockville.....301-744-7700
MA JSR Assoc Peabody.....617-532-0348
MI W R Hummon & Assoc Farmington.....313-474-0661
NJ Cosine Inc Plainfield.....201-654-3551
NM Burt Dieruf Assoc Albuquerque.....505-299-0989
NC Physimetrix Raleigh.....919-787-9276
OH Carter McCormick & Peirce
Fairview.....216-779-5100
PA Electronic Mktg Assoc Plymouth
Mtg.....215-828-7400
TN Physimetrix Knoxville.....615-966-7553
TX Scientific Sales Co Houston.....713-666-5318
WY A Bissell Co Casper.....307-557-1851

PAKTRON DIV ILLINOIS TOOL WKS INC
1205 MCCONVILLE RD LYNCHBURG
VA 24502 TWX 910-221-0275.....312-282-7383
C WOODRUFF EMP 6000 ENG 500 OVER \$10,000K

PALADIN CORP 3543 OLD CONEJO RD
NEWBURY PARK CA 91320
TWX 910-944-2799.....805-499-0318
R VOGEL
CA Shattuck Mktg Ben Lomond.....408-336-2131
CA McBride Elctn Mktg Walnut.....714-594-3464
IL Bradley Rep Schaumburg.....312-397-4440
KS R W Kunz & Assoc Prairie Vlg.....913-648-3535
MA Dwyer Assoc Newbury.....617-363-5466

MN Select Sales Mnpls.....612-827-3637
PA Classen-Doolittle York.....717-714-1689
TX Ray-Mar & Assoc Dallas.....214-337-7308

DISTRIBUTORS

CA Marshall Industries.....213-686-0141
CA Dow Radio Inc.....213-793-1195
CA Zack Electronics.....415-626-1444
CT Signal Center Inc.....203-233-8551
HI Honolulu Electronics.....808-949-5564
MA Contact East Inc.....617-722-5051
NH EPE Corp.....603-669-9181
NJ Drop Shop Ltd Inc.....201-241-9300
NY Simcona Electronics Corp.....716-228-2330
NC Southeastern Radio Supply Co.....919-828-2311
OR Radar Electronic.....503-233-3691
TX REDCO.....214-688-0652
WA Radar Electric Co.....206-282-2511

PALL ULTRAFINE FILTRATION CORP
2200 NORTHERN BLVD EAST HILLS
NY 11548.....516-484-5400
S CHISOLM EMP 550 ENG 106 OVER \$10,000K

AL AWC Alabama Inc Mobile.....205-456-8484
AZ Process Technology Comps
Scottsdale.....602-962-7947
CA Mensco Walnut.....714-598-1061
CA Mensco Inc Fremont.....415-651-9800
CO Ross Equip Englewood.....303-740-9400
CT Pond Technical Sales Hamden.....203281-0005
FL System Components Corp
Cocoa Beach.....305-783-1002
GA AWC.....404-451-0907
HI Berkeley Eng Co Honolulu.....808-845-9377
IL Enpro Inc Addison.....312-629-3504
LA AWC Inc Baton Rouge.....504-292-8150
MN Industria Co Mnpls.....612-835-5535
MO Process & Chemical Equip
Maryland Hgts.....314-878-6161
NE H G Klug Co Omaha.....402-397-8910
NJ Pal Trincor Corp Vauxhall.....201-964-8300
NY Prosc Prods Cortland.....607-753-8231
NC Abernathy-Thomas Engr Raleigh.....919-787-8408
OH Lester Johnson Co Valley View.....216-447-5010
OK Condit Co Tulsa.....918-663-5310
PA Blirmore Products Co Bethel Park.....412-831-0250
SC Abernathy-Thomas Eng Greenville.....803-288-2833
TN Abernathy-Thomas Eng Co
Kingsport.....615-245-6151
TX AWC Inc Houston.....713-486-5800
UT Mensco S L C.....801-268-2175
VA Trincor Richmond.....800-524-1417
WA Flow Components Inc Vancouver.....206-256-0345
FR Pal Canada Brockville ON.....613-345-2280
FR Inseco San Juan, PR.....809-781-2655

PALOMAR ENGINEERS BOX 455
ESCONDIDO CA 92025.....619-747-3343
J ALTHOUSE EMP 10 ENG 1 \$250-\$500K

DISTRIBUTORS

CA Ham Radio Outlet Anaheim.....714-761-3033
NJ Giffy Assoc Park Ridge.....201-391-7887
NY Barry Electronics New York.....212-925-7000
OH Universal Amateur Radio
Reynoldsburg.....614-866-4267
PA LaCue Communications Johnstown.....814-536-5500
VA Electroic Equip Bank Vienna.....703-938-3350
WA Amateur Radio Supply Seattle.....206-767-3222
WI Amateur Elect Supply Milwaukee.....414-442-4200

PANALARM DIV AMETEK INC
7401 N HAMLIN SKOKIE
IL 60076 TWX 724436.....312-675-2500
F KNOPF EMP 260 ENG 20 \$5,000-\$10,000K

AL Frank A Thomas Co Mobile.....476-7837
AK Engineered Equip of AK Anchorage.....276-4050
AZ J T Aldrich Co Tempe.....945-8598
AR Bob White & Assoc Little Rock.....225-7177
CA Jensen Inst Co Asuza.....969-7991
CA Jensen Inst Co So San Francisco.....589-9720
CO Cliff Beaboot Co Denver.....831-7259
FL M D Duncan & Assoc Orlando.....295-2432
GA Barnett & Co Atlanta.....448-7084
HI CBC Inc Kailua, Oahu.....254-5878
IL Process Sales Addison.....543-7400
IN Process Sales Indpls.....849-8040
IA H G Klug Co Bettendorf.....332-7343
KS Tompkins Equip Co Overland Pk.....345-1066
KY Control Prods Co Louisville.....452-2611
LA Alpha Process Sales Baton Rouge.....769-3740
MD Magyar & Assoc Wheaton.....871-8833
MA PSC Instruments Inc Randolph.....963-8910
MI G R Peters Assoc Troy.....362-1220
MN Pinkney & Assoc Mnpls.....571-2040
MO C F Gast Co St Louis.....593-2870
NE H G Klug Co Omaha.....397-8910
NJ TRI Inc Saddle Brook.....791-5225
NY D S Reynolds Co E Aurora.....655-1600
NY Control Equip Corp Cazenovia.....655-9700
NC Systems Serv Corp Charlotte.....377-3407
OH Lester Johnson Co Valley View.....447-5010
OK Ernie Graves Co Tulsa.....584-4708
OR McLaren Inc Portland.....297-2248
PA Arobone & Co Ft Washington.....628-9292
TN Bob White & Assoc Memphis.....725-6655
TX Alpha Process Sales Sugarland.....240-4505
UT Control Sys Inc S L C.....364-6425
VA Engineering Equip Co Richmond.....794-6100
WA McLaren Inc Bellevue.....454-3400
WV Process Insts Inc Charleston.....776-6200
WI Jensen Reynolds Corp Milwaukee.....351-1100
FR SIOC Ltd Mississauga ON.....625-1790

PAN AMERICAN TRADE DEVELOPMENT
CORP 2 PARK AVE NEW YORK
NY 10016 TWX 710-581-6567.....212-481-1800
R WHITE EMP 80 ENG 10 OVER \$10,000K

PANAMETRICS INC PROCESS INST DIV
221 CRESCENT ST WALTHAM
MA 02254 TWX 951006.....617-899-2719
M LEVINE EMP 200 ENG 50 OVER \$10,000K

AL Vesco Huntsville.....205-881-1494
CA Sharman Inc Walnut Creek.....415-947-5757
CA PI Instruments Los Angeles.....213-747-9236
CO Brock Easley Inc Englewood.....303-790-2333
IL Murphy & Dickey Westchester.....704-344-5660
MA Gramer Assoc Canton.....617-828-4560
MN Production Automation Minnetonka.....612-935-1414
NJ Multi-Measurements Warminster PA.....215-675-3082
NY Control Sales Wayne.....201-785-0131
NY Ritex Entrps Rochester.....716-271-3170
NC Walkman Instruments Charlotte.....704-375-3132
OK Myers-Aubrey Co Tulsa.....918-622-3500
PA Scientific-Pittsburgh Pittsburgh.....412-921-7700
TX Harvey Assoc Houston.....713-464-7641
VA Dynamation Inc Richmond.....804-794-7667
WA Brock Easley Inc Kirkland.....206-828-4588

PANASONIC CO ELECTRONIC
COMPONENTS DIV 1 PANASONIC WAY
SECAUCUS NJ 07094
TWX 710-992-8920.....201-348-5200
EMP 100 ENG 20 OVER \$10,000K

PANASONIC INDUSTRIAL CO
BATTERY SALES DIV ONE
PANASONIC WAY SECAUCUS
NJ 07094.....201-348-5266
ADV PG 33

CA Panasonic Cypress.....714-895-7315
TX Panasonic Irving.....214-257-0763

PANAVISE PRODUCTS INC 2850 29 ST
LONG BEACH CA 90806
TWX 18-2135.....213-595-7621
M STEFFEN EMP 27 ENG 1 \$1,000-\$2,500K

AZ Bidwell Sales Assoc Mesa.....602-265-2029
CA Carelli Ema Burlingame.....415-697-6286
CA Bidwell Sales Assoc Carson.....213-770-0300
CO Cluff & Assoc Denver.....303-423-9354
FL Unirep Inc Ft Lauderdale.....305-587-7481
GA H W Phillips Co Roswell.....404-992-3070
IL Bob Burns Assoc Park Ridge.....212-775-1233
IN Robert Milsk Co Indpls.....317-842-3400
KS Thos L Dowell & Assoc Overland
Park.....913-648-7373

MD Mid Atlantic Sales Co Silver
Spring.....301-593-7749

MA W A Hendrickson Co No Scituate.....617-545-0652
MI Robert Milsk Co Southfield.....313-354-3310
MN Select Sales Mnpls.....612-827-1731
NY Selectra Sales Bellmore.....516-221-7865
NY LSM Assoc Phelps.....315-548-4891
OH C L Pugh & Assoc Columbus.....614-486-9678
PA Mid Atlantic Sales Co Abington.....215-657-2815
TX Crockett Sales Co Dallas.....214-350-3377
UT Cluff & Assoc SLC.....801-261-5426
WA Canow Marketing Edmonds.....206-775-5261

PANDUIT CORP 17301 RIDGELAND AVE
TINLEY PARK IL 60477
TWX 25-4560.....312-532-1800
B HUISMAN EMP 1200

AL F Parker & Assoc Trussville.....205-655-4801
AK Bar Electric Agents Anchorage.....907-345-7281
AZ Panduit Corp Phoenix.....602-861-3969
AR Byron Carson Co Little Rock.....501-568-6798
CA Ewing-Foley Inc Los Altos.....415-941-4525
CA Panduit Corp Santa Ana.....714-546-5700
CO Panduit Corp Denver.....800-323-4439
FL Panduit Corp Lakeland.....800-282-9209
GA Panduit Corp Atlanta.....404-256-5940
HI Agencies Co Pacific Honolulu.....808-395-8343
IN Panduit Corp Indpls.....317-251-8332
IA Panduit Corp Des Moines.....280-8343
KS Panduit Corp Lenexa.....800-323-4439
KY A L Pickets Co Louisville.....502-491-4215
LA Wells-Keown & Assoc New Orleans.....504-244-0330
MD Agency Group Inc Landover.....301-773-9292
MI Panduit Corp Fraser.....313-791-1700
MN Electric Component Sales Mnpls.....612-933-2594
MO Panduit Corp St Louis.....314-894-7800
NH Sales Eng Co Salem.....603-893-5521
NJ Panduit Corp Leonia.....201-461-7790
NM FP Sales Albuquerque.....505-345-5553
NY Panduit Corp Niagara Falls.....800-323-4439
NC L G White Southern Winston-Salem.....919-725-3612
OH Panduit Corp Westerville.....800-323-4439
OR Panduit Corp Milwaukie.....503-654-9455
PA Kunz Powell & Assoc Glenside.....215-224-2434
SC L G White Southern Greenville.....803-271-0630
TN Byron Carson Co Memphis.....901-276-0614
TX Panduit Corp Dallas.....214-620-7717
UT Bruce Emmett Sales Co SLC.....801-973-7454
VA L G White Southern Richmond.....804-740-7093
WV M F Smith & Assoc Dunbar.....304-768-9910
WI Harold Mercer Co Appleton.....414-739-6223
FR Panduit Canada Ltd Markham ON.....416-475-6922
FR L Gandia & Assoc Santurce PR.....809-725-3473

PANEL COMPONENTS CORP BOX 6626
SANTA ROSA CA 95406
TWX 176-747.....707-523-0600
S HAUSSLER EMP 18 ENG 1

CA Ross Marketing Santa Clara.....408-988-8111
CA Schoenbachler-Dobson Co Tustin.....714-544-1888
CO Omega Ltd Englewood.....303-762-1921
GA DHR Marketing Atlanta.....404-451-9848
IL Raines & Assoc Northbrook.....312-498-0890
IA M-S-B Assoc Marion.....319-377-6261
KS M-S-B Assoc Shawnee Mission.....913-432-2131
MA Zieco Inc Lexington.....617-861-8300
MN Arkco Sales St Paul.....612-777-7454
MO M-S-B Assoc St Charles.....314-946-5577
NY Lloyd Hart Assoc Rochester.....716-244-3253
NY Tylnski Assoc Great Neck.....516-466-9070
NC DHR Marketing Raleigh.....919-781-1961

OH K-T Depco Chesterland.....216-442-6200
OR Earl & Brown Co Portland.....503-245-2283
PA Eastern Scientific
Montgomeryville.....215-368-4570
SC DHR Marketing Greenville.....803-235-3594
TX Jim Hughes Co Lewisville.....214-221-1536
WA Earl & Brown Co Seattle.....206-284-1121
FR Ellam & Assoc Nepean ON.....613-727-3892

PANELGRAPHIC CORP 10 HENDERSON
DR WEST CALDWELL NJ 0706
TWX 710-734-4367.....201-227-1500
J RODGERS EMP 100 ENG 6 \$2,500-\$5,000K

PANELOC CORP DRAWER 547
FARMINGTON CT 06032.....203-677-6711
G WILLIAMS JR EMP 47

CA Rubly Engrg Co Los Angeles.....213-474-2503
DE G Grossman Jr Wilmington.....302-658-1159
MA H E Swendsboe Dedham.....617-326-6236
OH Edw E Bock & Assoc Cleveland.....216-331-5212

PANELTEC INC 1093 MEMOREX DR
SANTA CLARA CA 95050
TWX 535915.....408-496-1175
D TILBURY EMP 32 ENG 3 \$2,500-\$5,000K
ADV PG 441

PANELVISION 265 KAPPA DR
PITTSBURGH PA 15238.....412-963-9635
T MALONEY EMP 40 ENG 16 \$1,000-\$2,500K

PAN-MAGNETICS INTL INC
455-A CARSON PLAZA DR CARSON
CA 90746 TWX 664-759.....213-532-1790
J WHITSON EMP 200 ENG 12 \$2,500-\$5,000K
ADV PG 493

AL Montgomery Marketing Huntsville.....205-830-0498
AZ EDP & Assoc Scottsdale.....602-991-6119
CA Pacific Electronics San Jose.....408-286-9400
CT Datcom Inc Hamden.....203-288-7005
FL I P D South Casselberry.....305-767-9449
GA Montgomery Marketing Norcross.....404-447-6124
IL Interep Inc Mt Prospect.....312-577-8899
IN Schilling Assoc Kokomo.....317-452-4057
MA Datcom Inc Waltham.....617-891-4600
MN DeBeck-Hays Assoc Mnpls.....612-835-3610
NV Unitronics Inc Reno.....702-825-1978
NJ T R C Electronics Lodi.....201-779-8282
NY T R C Electronics Lodi.....800-222-0910
NC Montgomery Marketing Cary.....919-467-6319
PA Q E D Electronics Willow Grove.....215-657-5600
TX Lewis-Johnson Inc Dallas.....214-783-8831
FR A R Gray & Assoc Pointe
Claire PQ.....514-964-6378

PANTASOTE INC PACKAGING DIV
26 JEFFERSON ST PASSAIC
NJ 07055.....201-777-8500
R STERNE

CA Packaging Div Fresno.....209-291-2541

PARABAM INC 3017 E LAS HERMANAS
RANCHO DOMINGUEZ CA 90221.....213-537-1771
J DAY EMP 33 ENG 3 \$2,500-\$5,000K

PARADYNE CORP 8550 ULMERTON RD
LARGO FL 33540.....813-530-2000
S WELLMAN EMP 3700 OVER \$10,000K

AL Paradyne Birmingham.....205-967-8105
AK Paradyne Creve Coeur.....314-432-5010
AZ Paradyne Phoenix.....602-967-7606
AR Paradyne Little Rock.....501-663-6750
CA Paradyne Garden Grove.....714-894-7526
CA Paradyne San Mateo.....415-571-1985
CO Paradyne Denver.....303-691-5180
CT Paradyne Westport.....203-222-9100
FL Paradyne Clearwater.....813-530-9760
GA Paradyne Atlanta.....404-934-5590
IL Paradyne Chicago.....312-580-0795
IN Paradyne Indianapolis.....317-846-4308
IA Paradyne West Des Moines.....515-225-1865
KS Paradyne Mission.....913-831-1880
KY Paradyne Louisville.....502-426-7014
LA Paradyne New Orleans.....504-832-1966
MA Paradyne Burlington.....617-273-4090
MI Paradyne Detroit.....313-642-9920
MN Paradyne Woodbury.....612-738-3758
NE Paradyne Omaha.....402-330-1333
NJ Paradyne Secaucus.....201-866-9300
NM Paradyne Albuquerque.....505-843-6853
NY Paradyne New York.....212-422-3850
NC Paradyne Charlotte.....704-527-0321
OH Paradyne Cincinnati.....513-489-4580
OK Paradyne Tulsa.....918-663-1730
OR Paradyne Portland.....503-225-0666
PA Paradyne Harrisburg.....717-232-2837
TN Paradyne Memphis.....901-767-6787
TX Paradyne Dallas.....214-788-2799
UT Paradyne SLC.....801-532-7525
VA Paradyne Alexandria.....703-549-9214
VA Paradyne Richmond.....804-282-5570
WA Paradyne Tukwila.....206-433-8533
WI Paradyne Brookfield.....414-786-4884
FR Paradyne Canada Willowdale.....416-494-0453

PARA-LINE TRANSFORMER CO INC
511 S PALM AVE ALHAMBRA
CA 91803.....818-281-0222
A NEVIN EMP 90 ENG 5

PARALLEL COMPUTERS 3004
MISSION ST SANTA CRUZ
CA 95060 TWX 757954.....408-429-1338
R DURAL EMP 60 ENG 30

CA Parallel Computers Anaheim.....714-533-6781
MA Parallel Computers Framingham.....617-626-2233
NJ Parallel Computers Princeton.....609-987-1028

PARAMOUNT TUBE INC 1430
PROGRESS RD FORT WAYNE
IN 46808.....219-484-4111
D GIBSON EMP 46 ENG 2 \$2,500-\$5,000K

PARAPLEGICS MFG CO INC
304 N YORK RD BENSENVILLE
IL 60106.....312-625-7740
J DELAURIEA EMP 90 ENG 1 \$1,000-\$2,500K
AZ Tuck Vinson 5331 McDowell Mesa.....602-832-0823

PARATRONIX INC 129 BANK ST
ATTLEBORO MA 02703
TWX 94-8057.....617-222-8979
EMP 12 ENG 2 \$500-\$1,000K

PARENT METAL PRODUCTS 6800
STATE RD PHILADELPHIA
PA 19135.....215-332-6800
D MAY EMP 65 ENG 2 \$500-\$1,000K

PARK DISTRIBUTORS INC 347
RAILROAD AVE BRIDGEPORT
CT 06604.....203-366-7200

PARKER HANNIFIN CORP CYLINDER DIV
501 S WOLF RD DES PLAINES
IL 60016 TWX 72-6450.....312-298-2400

PARKER HANNIFIN CORP FILTER DIV
16810 FULTON COUNTY RD 2
METAMORA OH 43540 TWX 28-4311.....419-644-4311

PARKER HANNIFIN CORP HOSE
PRODS DIV 30240 LAKELAND BLVD
WICKLIFFE OH 44092
TWX 98-5405.....216-943-5700

PARKER HANNIFIN CORP HYDRAULIC
VALVE DIV 520 TERNES AVE
ELYRIA OH 44035 TWX 24-3419.....216-322-4631

PARKER HANNIFIN CORP PARFLEX DIV
1300 N FREEDOM ST RAVENNA
OH 44266 TWX 98-5405.....216-296-2871

PARKER HANNIFIN CORP QUICK
COUPLING DIV 8145 LEWIS RD
MINNEAPOLIS MN 55427
TWX 29-0320.....612-544-7781

PARKER HANNIFIN CORP REFRIG
SPEC DIV 2445 S 25 AVE
BROADVIEW IL 60153
TWX 72-8462.....312-681-6300

PARKER HANNIFIN CORP SEAL GROUP
2360 PALUMBO DR BOX 11751
LEXINGTON KY 40509 TWX 510
4768848.....606-269-2351
F CHESNIK EMP 2200 ENG 34

PARKER HANNIFIN CORP TUBE
FITTINGS DIV 17325 EUCLID AVE
CLEVELAND OH 44112
TWX 98-0636.....216-531-3000

PARKER PNEUTRONICS 2 LOMAR PARK
E PEPPERELL MA 01437
TWX 951 373.....617-433-2721
S HEWETT EMP 40 ENG 6 \$2,500-\$5,000K
CT Parker Pneutronics New Fairfield.....203-746-6323

PARKER SEAL GROUP BOX 11751
LEXINGTON KY 40512
TWX 510-476-8848.....606-269-2351
W CLAUSSE EMP 2093

PARKO ELECTRONICS CO INC
16722 MILLIKEN AVE IRVINE
CA 92714.....714-660-8014
F PARKER EMP 15 ENG 2 \$500-\$1,000K

PARLEY CORP 145 MILK ST METHUEN
MA 01844 TWX 710-342-1528.....617-685-4341
M HALL EMP 600 ENG 35 OVER \$10,000K

CA Nova-Tronix Santa Clara.....408-243-9530
FL CBC Ft Lauderdale.....305-722-3850
IL Janus Itasca.....312-250-9650
IN Valentine & Assoc Greenwood.....317-888-2260
MD New Era Glen Burnie.....301-768-6666
MN Electrotech Assoc Mnpls.....612-927-5878
NJ Addem Seacaus.....201-330-8300
NY Murcan Sales Corp Syracuse.....315-437-0734
NC CSR Electronics Raleigh.....919-878-9200
OH Electronic Salesmasters
Beechwood.....216-831-9555
PA Omni Sales Erdenheim.....215-233-4600
WA Aid Electronics Irving.....214-790-4761
FR Bestec Elctns Ltd Canada.....416-674-1330

PARSONS MFG CORP 1055 O'BRIEN DR
MENLO PARK CA 94025
TWX 910-373-2106.....415-324-4726
C PLUMMER EMP 90 ENG 4 \$2,500-\$5,000K

CA Parsons Mfg Corp El Monte.....818-443-3277
CA Foam Fabricators Commerce City.....303-296-3626
GA South-Pack Inc Doraville.....404-452-0773
IL Cougar Packaging Elmhurst.....312-833-0346
OH Don Ray Co Cleveland.....216-449-6450
PA Thermo Pak Phila.....215-742-0447
TX Bemel Industries Dallas.....214-942-8419

PARTFOLIO INC 1281 ANDERSEN DR
SAN RAFAEL CA 94901.....415-459-1087
D VAN OSDELL EMP 10 ENG 1

CA McBride Marketing Walnut.....714-594-3464
CO Solder Tech Inc Denver.....303-922-6214
FL Ran-Tech Clearwater.....813-441-9690
GA Electrical Concepts Inc Tucker.....404-491-3154

MA Yankee Tech Sales Woburn.....617-935-6278
NJ Wilson Industries Englewood.....201-871-4658
WA Richard Carr & Assoc Federal Way.....206-839-6334

DISTRIBUTORS

AZ Scottsdale Tool Phoenix.....602-273-0902
CA Marshall Ind El Monte.....213-686-0141
CA Wassco El Segundo.....213-772-8171
CA Macdonald & Co Glendale.....213-241-1101
CA Com-Kyl Sunnyvale.....408-734-9660
CA RGB Electro Ind Sply Santa Clara.....408-998-4491
CO Associates Matl Handling Denver.....303-759-3259
IL EMF Co Chicago.....600-621-0300
MA Contact East Burlington.....617-272-5051
MA Dancorp Danvers.....617-777-3700
MA R W Hatfield N Wilmington.....617-677-5007
MA E J Murphy Co Woburn.....617-935-1500
NH EPE Manchester.....603-669-9181
NY Batty & Hoyt Rochester.....716-227-0900
OR Murphy Ind Supply Portland.....503-620-8680
PA Henry Mann Inc Huntingdon Valley.....215-355-7200
PA Techni-Tool Plymouth Mtg.....215-825-4990
TX Roy E Davis & Co Dallas.....214-688-0652

PARTRICK & WILKINS CO 5100
LANCASTER AVE PHILADELPHIA
PA 19131.....215-473-8300
J WILSON EMP 375 ENG 18 OVER \$10,000K

PASO SOUND PRODUCTS INC
14 FIRST ST PELHAM NY 10803
TWX 646783.....914-738-4800
D MOORE EMP 25 ENG 3 \$1,000-\$2,500K
CA Lichtnerauer & Assoc Antioch.....415-737-1200
CA Don Forth Assoc West Covina.....818-919-9170
CT Miller Assoc Greenwich.....212-621-9242
FL World Wide Products Inc Miami.....305-966-6622
IL Brainard-Wilson Mktg Arlington
Hts.....312-437-2700
MA Anderson Sales Assoc Braintree.....617-848-9194
MN Northland Assoc Moorhead.....18-233-4616
NJ Piper Marketing Moorstown.....609-235-8006
NY Jack Mesnick Sales Liverpool.....215-622-3211
NC DeWitt Austin Co Charlotte.....704-334-0174
OH Jas H Podolny Co Medina.....216-725-8814
TN Electronic Sales Co Memphis.....901-682-2281
FR PACO Elctns Ltd Markham ON.....416-475-0740
FR M A Lopez Hialeah FL.....305-822-6853

DISTRIBUTORS

CA Lindes Elect Santa Fe Springs.....213-698-0681
IL Radio Sound Corp Chicago.....312-427-2130
NJ Interstate Elect Hazlet.....201-264-3900
NY Dale Elect New York.....212-255-3660
NY Long Island Commun Copiague.....516-842-6644
NY Radio Equipment Buffalo.....716-374-2690
PA Arch Electronics Co Phila.....215-563-4660
VA Rental Suppliers Richmond.....804-353-6548

PASS & SEYMOUR 50 BOYD
AV BOX 4822 SYRACUSE NY 13221
TWX 937-232.....315-468-6211
K HOOPER EMP 500 ENG 3 OVER \$10,000K
AL E Heusser Agency Birmingham.....205-836-3896
AZ Tom Geis & Assoc Phoenix.....602-252-7694
CA Nelson & Assoc City of Commerce.....213-728-2566
CA F M Nicholas Co San Francisco.....415-467-6220
CO Dimensions Electrical Denver.....303-762-0064
CT Zucco Co Wilton.....303-592-7340
FL Action Elect Sales Miami.....404-455-7151
GA Brown & Lucas Co Atlanta.....312-722-0330
IN Lester Sales Co Indpls.....317-244-7811
IA Joe Bertsch Elec Sales
Cedar Rapids.....319-366-7719
KS Stover & Assoc Shawnee Mission.....913-649-6600
KY Lester Sales Co Louisville.....502-634-8930
LA Don Mackenroth & Assoc Harahan.....504-524-7662
MD Downie Turner & Bures Baltimore.....301-944-2100
MI Electrical Sales Co Livonia.....313-464-1800
MN R C Handy Sales Co Minnetonka.....612-933-4424
MO Schaeffer Sales St Louis.....314-647-1000
NE Joe Bertsch Elec Sales Co Omaha.....402-333-5295
NY W E Daw Co Syracuse.....315-463-8541
NY Car-Nap Elec Sales Glendale.....212-894-2400
NC E F Lombardi Co Charlotte.....704-334-1637
OH J R Boyver & Assoc Hudson.....216-650-4013
OR Shaffer & Nelson Inc Portland.....503-854-7437
PA Kunz-Powell & Assoc Glenside.....215-224-2434
TN Schubert Sales Agency
Chattanooga.....615-894-4556
TX Jim Edwards Co Houston.....713-223-4731
UT Lyle Williams Co SLC.....801-268-4300
WA Shaffer & Nelson Inc Seattle.....206-143-0664
WI Rowe & Sons Milwaukee.....414-466-2017

PASSIVE COMPONENTS INC
9347 ETON AVE CHATSWORTH
CA 91311.....818-341-1745
C EMP 11 \$500-\$1,000K

PASTERNAK ENTERPRISES BOX 16759
IRVINE CA 92713.....714-854-8500
M PASTERNAK EMP 12 ENG 3 \$500-\$1,000K

PATTON-MACGUYER INC 17
VIRGINIA AVE PROVIDENCE
RI 02905.....401-941-6000
F SPUNZO EMP 55 ENG 2 \$2,500-\$5,000K

PAYNE ENGINEERING CO BOX 70
SCOTT DEPOT WV 25560
TWX 88-5452.....304-757-7353
C POYNTER EMP 30 ENG 5 \$2,500-\$5,000K
AR Jordan Marlar Hale Little Rock.....501-378-0421
CA Sierra Pacific Eng Inc Tustin.....714-731-3411
CA Powermatic Assoc Oakland.....415-635-6825
CO High Country Assoc Lakewood.....303-980-8021
CT Raymon Gerard Assoc Simsbury.....203-721-0359
FL Motion Technology Orlando.....305-851-1923

GA Motion Technology Lilburn.....404-972-5050
IL Mike Sales Co Downers Grove.....312-968-8403
IN J W Murray & Assoc Cinc OH.....513-574-8500
LA Rapco Assoc Metairie.....504-887-9500
ME Raymon Gerard Assoc Portland.....207-797-3148
MI Applied Instr Co Farmington.....313-476-9060
MN Elstad Assoc Plymouth.....612-475-2208
MO Floyd Gilliam Assoc St Louis.....314-961-5555
NH Raymon Gerard Assoc Meridith.....617-524-6005
NM Young Sales Co Albuquerque.....505-293-8032
NY Manning & Assoc Ridgefield, CT.....203-438-5027
NC Motion Technology Charlotte.....704-525-9855
OH J R Boyver & Assoc Hudson.....216-656-6613
OR M Levin & Son Portland.....503-231-3920
PA B & G Engrg Paoli.....215-647-4661
TN Jordan Marlar Hale Memphis.....901-452-7441
TX Clarke Co Houston.....713-526-4908
VA Gregg & Assoc White Stone.....804-435-1525
WA M Levin & Son Seattle.....206-623-6035
WV Process Eng Co Pittsburgh Pa.....412-561-5050

DISTRIBUTORS

MN Power/Motion Div St Paul.....612-645-0781
NY Queens Indus Elec Jamaica.....212-526-7198
OR Consolidated Elec Dist Bend.....503-382-8787
TN Thermal Equip Sales Memphis.....901-452-7441
VA Transmission Prods Richmond.....804-233-8351

PCA ELECTRONICS INC 16799
SCHOENBORN ST SEPULVEDA
CA 91343 TWX 910-496-1525.....818-892-0761
P ROSALES EMP 75 ENG 3 OVER \$10,000K
AZ Toward Engrg Assoc Phoenix.....602-955-3193
CA Littlefield & Smith Assoc
San Diego.....619-455-0055
CA Fahrner Miller Assoc Santa Clara.....408-727-9800
CO Sage Sales Aurora.....303-750-3501
FL Southern Elctn Mktg Casselberry.....305-831-2822
IL W G Brouillette & Assoc
Westchester.....312-345-6500
IN W G Brouillette & Assoc Carmel.....317-848-2016
MA KSA of New England Southboro.....617-485-9432
MN Bill Deming & Assoc Mnpls.....612-888-5000
NJ F Sylvestre Assoc Springfield.....201-376-3324
PA Eltron Sales Ltd King of Prussia.....215-783-5350
TX Blackburn Assoc Richardson.....214-783-2200
UT Sage Sales SLC.....801-467-5451
VA Eltron Sales Ltd Front Royal.....703-635-7201
WA Electronic Comp Sales Mercer
Island.....206-232-9301

PCB PIEZOTRONICS INC 3425
WALDEN AVE DEPEW NY 14043
TWX 710-263-1371.....716-684-0001
J LALLY EMP 130 ENG 12 \$5,000-\$10,000K
CA Dale-Dahl Assoc Walnut Creek.....415-933-9595
CA Dale-Dahl Assoc Alhambra.....213-682-3417
CT Northeast Eng Inc Hamden.....203-248-4481
FL Microspec Inc Orlando.....305-299-6508
GA Microspec Inc Lilburn.....404-921-3840
IL Torkelson Assoc Crystal Lake.....815-455-1411
MD Gans-Pugh Inc West Friendship.....703-527-3262
MA Northeast Eng Inc Danvers.....617-774-3010
MI CM & P Inc Farmington.....313-477-7700
MN EIC Inc Chanhassen.....612-445-7056
MO Adelphi Inc St Louis.....314-821-1232
NM Rustco Enterprise Albuquerque.....505-292-2741
NY Labtronics Inc Syracuse.....315-455-7314
NY Northeast Engrg Manhasset.....516-365-9633
OH CM & P Inc Fairview Pk.....216-779-5100
PA CM & P Inc Monroeville.....412-372-4415
SC Microspec Inc Rock Hill.....803-366-3015
TN Microspec Inc Nashville.....615-383-4064
TX Technical Prods Inc Dallas.....214-357-9603
UT Western Mktg Assoc Logan.....801-753-0073
VA Gans-Pugh Inc Arlington.....703-527-3262
WA Brett Assoc Seattle.....206-431-8090
FR Intertechnology Inc Don Mills ON.....416-445-5500

PCI INC 2475 AUGUSTINE DR
SANTA CLARA CA 95054
TWX 346470.....408-980-0591
C PALMER EMP 1800 ENG 55 OVER \$10,000K
CA Hadden Assoc San Diego.....619-565-9444
FL OXI Inc Boca Raton.....305-392-2626
GA Action Components Atlanta.....404-393-9494
IL Carlson Elect Sales Elk
Grove Vlg.....312-956-8240
IN J & W Sales Co Indpls.....317-842-3740
MA R H Sturdy Co Wellesley Hills.....617-235-2330
MI R A Van De Velde Mt Clemens.....313-949-7900
MN Dan'l Engrg Mnpls.....612-854-7500
MO Design Solutions St Louis.....314-961-7170
NY Robert Diamond Inc Bayside.....212-423-7330
OH Luebbe Sales Co Cincinnati.....513-891-5770
TX Technology Sales Co Richardson.....214-437-5881
WA Northwest Mktng Bellevue.....206-455-5846
FR Eliam & Assoc Nepean ON.....613-224-1720
FR Blakewood Electronics West
Vancouver, BC.....604-926-8000

DISTRIBUTORS

CA RV Weatherford Anaheim.....714-634-9600
CA Bell Indust Sunnyvale.....408-734-8570
CA ITT Microcomponents Santa Ana.....714-835-9019
CA Ryno Electronics San Diego.....619-455-8430
MI RM Electronics Grand Rapids.....616-531-9300
MN Industrial Components Mnpls.....612-331-2666
NY Milgray Elec Freeport.....516-546-5600
FR Zentrionics Toronto ON.....416-451-9600

PCK ELASTOMERICS INC 2940
TURNPIKE DR HATBORO PA 19040
TWX 510-665-6822.....215-672-0787
T CAMPBELL EMP 24 ENG 5 \$2,500-\$5,000K
AZ TC Electronic Sales Scottsdale.....602-994-5153
CA Libratronix Anaheim.....714-534-7073
FL Janco Resch & Sales Co Coral
Springs.....313-643-0506
IL Coombs Assoc Arlington Hts.....312-439-9810

MA Kentronics Inc Wakefield.....617-246-0245
MI C B Jensen & Assoc Troy.....313-643-0506
MN Willman Assoc Brooklyn Center.....612-566-5010
OH L D Electronics Beaverton.....503-649-8556
WA L D Electronics Snohomish.....206-568-0511

PC LAN TECHNOLOGIES INC
5780 LINCOLN DR MINNEAPOLIS
MN 55436.....612-935-7509
L BULLEN

PC SECURITY ENTERPRISES BOX 510
NEWTON CENTRE MA 02159.....617-277-3111
J MARGULIES EMP 5

P C TRANSFORMER CORP 64
D NANCY ST WEST BABYLON
NY 11704.....516-491-3300
S GOLDSTEIN EMP 15 ENG 2 \$250-\$500K

PEARSON ELECTRONICS INC
1860 EMBARCADERO RD PALO ALTO
CA 94303 TWX 171 412.....415-494-6444
P PEARSON EMP 20 ENG 2 \$500-\$1,000K
ADV PG 283

PEBX SYSTEMS 501D VANDELL WAY
CAMPBELL CA 95008.....408-866-7838
B SAYRE EMP 10 ENG 2 \$1,000-\$2,500K

PECO CONTROLS CORP 450
MONTAGUE EXPWY MILPITAS
CA 95035 TWX 346347.....408-262-4050
D SOPER EMP 100 ENG 8 \$2,500-\$5,000K
CA A Khan Milpitas.....408-262-4050
CA R Buschini Yorba Linda.....714-970-5445
FL R Fox Jacksonville.....904-642-1905
IL S Gorman Willowbrook.....312-325-2233
NY R Healey Bellmore.....516-781-5086
OH R Steiger Toledo.....419-885-2351
WI J Gavin Sturtevant.....414-886-3090

PEERLESS RADIO CORP 19 WILBUR ST
LYNBROOK NY 11563
TWX 510-225-8422.....516-593-2121
J ESSENBERG EMP 85 OVER \$10,000K
ADV PGS Green Pages/Footstrips
FL Peerless Radio Corp Pompano
Beach.....305-973-4141

FL Peerless Radio Corp in
Florida Toll Free.....800-432-8899
NJ Peerless Radio Corp.....201-592-0351
NY Peerless Radio Corp.....718-523-3456

Principals: Alco Electronic Products, AMP,
Aromat Corp, Bud Industries Inc, Bussmann,
Centralab, Chicago Miniature Lamp, C & K Components
Inc, Crouse-Hinds/Arrow-Hart Div, Dialight,
Eaton Corp/Cutler-Hammer Products, Edac Inc,
EEO Inc, Grayhill Inc, Holmberg Electronics,
ITT Schadow, Kulka-Smith, Littelfuse Inc,
Magnecraft Electric, Methode Electronics,
Micro Switch, Robinson-Nugent Inc, Scanbe
Div Xerox Corp, Switchcraft Inc, Texas Instruments
(Klixon), TRW.

PELAGIC ELECTRONICS 174
LAKESHORE DR EAST FALMOUTH
MA 02536.....617-540-1200
C TYNDALE EMP 2 ENG 1 UP TO \$100K

PENCEPT INC 39 GREEN ST WALTHAM
MA 02154 TWX 703501.....617-893-6390
A NILSSEN EMP 30 ENG 8

PENCO PRODUCTS INC BROWER AVE
OAKS PA 19456.....215-666-0500
G YOUNG EMP 350 OVER \$10,000K

PENN AIRBORNE PRODUCTS CO
950 INDUSTRIAL BLVD
SOUTHAMPTON PA 18966
TWX 834759.....215-355-3400
C MERCIER EMP 32 ENG 6 \$2,500-\$5,000K

PENN ENGINEERING & MFG CORP
BOX 1000 OLD EASTON RD
DANBORO PA 18916TWX 510
665-9338.....215-766-8853
J O'BRIEN EMP 289 ENG 7 OVER \$10,000K
CA R C Dudek & Co Westlake Vlg.....818-707-1310
CA R C Dudek & Co Sunnyvale.....408-734-3830
CO Denver Warehouse Wheatridge.....303-431-4334
FL Spyraflo Dania.....305-920-1114
GA Spyraflo Inc Peachtree City.....404-487-7600
IL S W Anderson Co Downers Grove.....312-964-2600
IN S W Anderson Co Carmel.....317-844-3100
MD R A Wafer Assoc Baltimore.....301-744-1133
MI Dodsworth Inc Milford.....313-875-5755
MN S W Anderson Co Eden Prairie.....612-941-4198
MO W D Burt Assoc KC.....816-931-2384
NJ B Brenner Hillsdale.....201-444-7103
NY J Lammers Rochester.....716-385-3232
NC Lee Ltd Bethania.....919 924-8245
OH Pepco Sales & Engrg Columbus.....614-451-9477
OR R C Dudek & Co Portland.....503-620-9330
PA Shahan Ottville.....215-847-5252
WI S W Anderson Co Cedarburg.....414-377-9011
FR Intl Fasteners Ltd Redxale ON.....416-674-0770

DISTRIBUTORS

AZ Aerospace Southwest Phoenix.....602-861-1785
MA Hellind Electronics Wilmington.....617-658-7000
TX Nappco Fastener Houston.....713-688-2521
TX Nappco Fastener San Antonio.....512-646-0341
TX Natl Precision Prods Dallas.....214-357-3921

PENN FIBRE & SPECIALTY CO
4343 G ST BOX 4890A
PHILADELPHIA PA 19124.....215-288-7366
L JONES EMP 66 ENG 2

IL Synergistic Entrps 39 Chestnut Westmont
NC Vater-Mc Cullough Assoc Box 21 Chapel Hill

PENN KEYSTONE CORP SUB UNIMAX
SWITCH IVES RD BOX 152
WALLINGFORD CT 06492
TWX 710-476-1397.....203-269-8701
E MELIA EMP 75 ENG 8 \$1,000-\$2,500K

AZ Mercury Engrg Sales Phoenix.....602-244-0123
CA Ewing-Foley Inc Los Altos.....415-941-4525
CA MASCO 4622 W Slauson LA.....213-295-7781
CO Computech Mktg Englewood.....303-773-3981
CT Zaslow Sales Co Bloomfield.....203-242-7781
FL J R Controls Tampa.....813-961-9478
IL W G Controls Lisle.....312-963-5954
MD L G White & Co Silver Spring.....301-434-1555
MI Greiner Assoc Grosse Pointe Pk.....313-499-0188
MN Jos-Co/Mellius Inc Mpls.....612-861-3343
MO Hill & Co Creve Coeur.....314-432-1136
NJ Grimm Siegel Assoc West Caldwell.....201-575-9300
NC L G White & Co Winston-Salem.....919-725-3612
OH O H Bromberg Cincinnati.....513-771-9333
PA White Whiddett Co Broomall.....215-353-6343
SC Sunbelt Sales Greenville.....803-877-9088
TX W Pat Fralia Co Bedford.....817-267-3577
WA Andersen Assoc Mercer Island.....206-232-0484

PENNSYLVANIA OPTICAL UNIT
BMC INDUS INC 234 S 8TH ST
READING PA 19603.....215-376-5701
D FAHRENHOLT EMP 300 ENG 7 OVER \$10,000K
AZ Piper Sales Co Tempe.....602-949-0048
CA Component Mktg Assoc Lomita.....213-326-1460
TX Precision Technology Assoc
Richardson.....214-234-8071

PENN TRANSFORMER CO RTE
144 N BOX 1321 WINGATE
PA 16880 TWX 706473.....814-355-1521
J BATT EMP 90 ENG 5 \$5,000-\$10,000K
AZ Systems Sales of AZ Tempe.....602-829-9338
CA Cain-White Los Altos.....415-948-6533
CA AF Sales Pasadena.....213-681-5631
CO Dynatech Inc Englewood.....303-773-2830
CT United Components Madison.....203-245-4810
FL Southern Elctns Sales Jupiter.....305-744-0028
IN Aktron Ft Wayne.....219-747-3650
MN International Sales Co Mpls.....612-831-8423
NM Systems Sales of NM Albuquerque.....505-581-8877
NY Tech-Mark Inc Mendon.....716-624-3840
NC DHR Marketing Raleigh.....919-876-5450
OH Intech Inc Wadsworth.....216-239-2202
OR Intertech Sales Portland.....503-775-7885
PA Koebert Assoc Glenside.....215-887-2310
TX Seaton Corp Dallas.....214-380-0414
VA Eltron Sales Ltd Front Royal.....703-635-7201

PENNNALT CORP KYNAR PIEZO GROUP
900 FIRST AVE BOX C
KING OF PRUSSIA PA 19406.....215-337-6710
J CHATIGNY EMP 14000 ENG 500 \$500-\$1,000K
ADV PG 321

PERCON/PERIPHERAL CONNECTIONS INC
2190 W 11TH ST EUGENE
OR 97402.....503-344-1189
P HARNACK

PERFORMANCE TECHNOLOGIES INC
300 MAIN ST EAST ROCHESTER
NY 14445.....716-586-6727
D TURRELL EMP 10 ENG 6
AL Remco.....205-533-3763
CA Sales One.....408-947-1266
MA Redding Assoc.....617-371-2022
NM RLS Instruments.....505-293-7931
OH Applied Data Management.....513-579-8108
PA Monument Technical.....215-884-3737
WA Electronic Component Sales.....206-232-9301

PERIPHERAL DYNAMICS INC
5150 CAMPUS DR PLYMOUTH
MEETING PA 19462
TWX 510-660-8028.....215-825-7090
J HANNA EMP 60 ENG 10

PERITEK CORP 5550 REDWOOD RD
OAKLAND CA 94619
TWX 910-366-2029.....415-531-6500
J BROGAN

PERKIN-ELMER 2 CRESCENT PLACE
OCEANPORT NJ 07757
TWX 710-722-6532.....800-631-2154
K O'CONNOR EMP 2000 ENG 400 OVER \$10,000K
AL Perkin-Elmer Huntsville.....205-533-6123
AZ Perkin-Elmer Phoenix.....602-267-7799
CA Perkin-Elmer Santa Clara.....408-727-5540
CA Perkin-Elmer LA.....213-641-4881
CA Perkin-Elmer San Diego.....619-565-0602
CA Perkin-Elmer San Francisco.....415-788-2803
CO Perkin-Elmer Denver.....303-773-2855
CT Perkin-Elmer Hartford.....203-243-9595
FL Perkin-Elmer Orlando.....305-850-1000
GA Perkin-Elmer Norcross.....404-448-3310
IL Perkin-Elmer Chicago.....312-437-5120
MD Perkin-Elmer Rockville.....301-984-4700
MA Perkin-Elmer Boston.....617-890-0557
MI Perkin-Elmer Detroit.....313-968-2777
MO Perkin-Elmer St Louis.....314-569-1817
NJ Perkin-Elmer Pennsauken.....609-665-3966
NM Perkin-Elmer Albuquerque.....505-242-4696
NY Perkin-Elmer Rochester.....716-442-6840
NY Perkin-Elmer Binghamton.....607-722-4233
NY Perkin-Elmer New York.....212-797-7140
OH Perkin-Elmer Cleveland.....216-731-3360

OH Perkin-Elmer Dayton.....513-434-4193
OK Perkin-Elmer Tulsa.....918-664-7161
PA Perkin-Elmer Pittsburgh.....412-963-6575
TX Perkin-Elmer Dallas.....214-669-4400
TX Perkin-Elmer Houston.....713-661-7752
VA Perkin-Elmer Midlothian.....804-744-1908
WA Perkin-Elmer Bellevue.....206-455-0680
FR Perkin-Elmer Data Sys of
Can Ltd Mississauga ON.....416-677-8990

PERKIN-ELMER NA INST DIV
ELCTN PRODS DEPT MAIN AVE
NORWALK CT 06859-0132
TWX 710-468-3213.....203-762-6574
D DUGGAN
CA CDH Assoc Agoura Hills.....213-707-1970

PERKIN-ELMER CORP SEMICONDUCTOR
EQUIP GROUP 761 MAIN AVE
NORWALK CT 06859-0205
TWX 710-468-3213.....203-834-6057
EMP 15,480 OVER \$10,000K
ADV PGS 254,255

AZ Perkin-Elmer Phoenix.....602-267-7799
CA Perkin-Elmer Santa Clara.....408-727-5540
CA Perkin-Elmer Irvine.....714-660-1964
CO Perkin-Elmer Colorado Springs.....303-528-6116
CT Perkin-Elmer Wilton.....203-834-6057
MA Perkin-Elmer Waltham.....617-890-2823
NY Perkin-Elmer Hopewell Junction.....914-896-5100
PA Perkin-Elmer Allentown.....215-264-9200
TX Perkin-Elmer Richardson.....214-669-4400
FR Perkin-Elmer Nederland
Hanzweg 16 Box 490 Al Gouda.....0-1820-28122

PERMAG CORP 400 KARIN LA
HICKSVILLE NY 11801
TWX 510-221-2191.....516-822-3311
C HEMMING EMP 50 ENG 2

PERMALUSTER INC 1844 N KEYSTONE
BURBANK CA 91504.....213-849-4543
H WALKER EMP 8 ENG 2

PERMANENT MAGNET CO INC
4437 BRAGDON BOX 26226
INDIANAPOLIS IN 46226.....317-547-1336
R BURNS JR EMP 100 ENG 6 \$2,500-\$5,000K
CA Local Sales Inc Placentia.....993-1800
CA Chapman & Chapman Del Mar.....453-0771
FL B Holt Clearwater.....797-3350
IL L Holt Hillside.....449-7660
MA A J Foley Sales Co Kingston.....585-8895
MN Peterson Enterprises Mpls.....571-6628
NY Kaelber & Mack Inc Commack.....499-2924
NY D K Assoc Buffalo.....631-0990
TX G LeFebre Garland.....272-5952

PERMA POWER ELECTRONICS INC
5615 W HOWARD AV CHICAGO
IL 60648.....312-647-9414
N ACKERMAN EMP 90 ENG 2 OVER \$10,000K
CA Techni-Rep Assoc Sun Valley.....818-768-4223
CA Technical Sales Assoc San
Francisco.....415-467-1434
CO Stan Sliz & Assoc Louisville.....303-666-4760
CT The Smith Co Hartford.....203-523-0512
IL Market Sales Corp Chicago.....312-792-2900
IN Green-Wissler Sales Co Indpls.....317-872-9981
LA Dick Bellw Sales Co Dallas TX.....214-373-4590
MA W & D Marketing Woburn.....617-935-5610
MI J Malcolm Flora Inc Plymouth.....313-453-4296
MN RW Sales St Paul.....612-646-2710
MO C A Vignola Assoc Jefferson City.....314-636-3121
NY Fahy Mktg Mariton.....609-654-1022
NY Landau & Mack Plainview.....516-293-3310
NY L-S-M Assoc Phelps.....315-548-4891
NC Adams & Assoc Greensboro.....919-272-6838
OH J W Lehner Co Stow.....216-686-1965
TX Berthold Sales Co Dallas.....214-328-0067
WA Northmar Inc Seattle.....206-524-5170
FR Morhan Exporting Corp Plainview,
NY.....516-293-5582

PERMONITE MFG CO 666 S
VERMONT ST PALATINE IL 60067
TWX 910-233-3507.....312-358-0088
S PERLMAN EMP 410 ENG 10 OVER \$10,000K
AZ B A Dixon Mesa.....602-892-6133
CA Benton A Dixon Los Angeles.....213-268-2661
CO Protronics Group Englewood.....303-781-6050
CT Precision Sales Inc Marlborough.....203-295-0580
IN T Kreil Indpls.....317-872-9456
MD Carwithen Silver Spring.....301-589-9040
MA Precision Sales Inc Newton.....617-969-0594
MI Epsco-Engnd Prod Sales Co Troy.....313-528-0983
NH Precision Sales Inc Pelham.....603-635-3753
NY Bensman/Upstate Assoc
Canandaigua.....716-396-2498
NY Bensman Upstate Assoc Johnson
City.....607-722-2242
NC Wolf's Electronic Sales Apex.....919-362-5022
OH J G McGhee Dayton.....513-296-1427
OR Ravencraft Inc Beaverton.....503-646-9261

PERQ SYSTEMS CORP 2600
LIBERTY AV BOX 2600 PITTSBURGH
PA 15230 TWX 710-664-4490.....412-355-0900
C GEYER EMP 240 ENG 48

PERRY AMPLIFIER 138 FULLER ST
BROOKLINE MA 02146.....617-734-0844
E RYAN EMP 24 ENG 3 \$500-\$1,000K

PERTEC COMPUTER CORP 17112
ARMSTRONG AVE IRVINE CA 92713
TWX 910-595-1912.....714-660-0488
C CHRISTENSEN

DISTRIBUTORS
AZ Computer Mart Div Phoenix.....602-265-0574
CA Attek Computer Dist Hayward.....415-785-5705
CA BBS Sales Inc La Crescenta.....213-245-3691
GA Consolidated Computer Sys
Norcross.....404-447-5203
MO Parasol Systems Inc Maryland Hts.....314-434-8300
NJ Market Makers Inc Paramus.....212-845-8912
OR Pacific Crest Bus Sys Salem.....503-362-7778
PA Automated Solutions Norristown.....215-277-3613
RI Computer Assoc Smithfield.....401-232-2800
UT Herscher Distributors SLIC.....801-363-4551

PERTEC PERIPHERALS CORP
9600 IRONDALE AVE CHATSWORTH
CA 91311 TWX 910-494-2093.....818-882-0031
W GREENFIELD EMP 600 ENG 115 OVER \$10,000K
CA D Meyer San Jose.....408-297-6551
CA D Smith Orange.....714-978-0818
MA S Mycko Bockborough.....617-264-0167
TX H Matthews Dallas.....214-521-0642

DISTRIBUTORS
CA Peripheral Sources Canoga PK.....818-704-4802
IL Bexdata Ltd Lansing.....312-895-3010
MD Data Systems Mktg Lanham.....301-577-3700
NY Data Systems Mktg W Islip.....215-225-1140
TX Arnold Barnes Assoc Richardson.....214-783-8400
FR Tracan Elect Ltd Mississauga ON.....416-625-7752

PERTRON CONTROLS CORP 20630
PLUMMER ST CHATSWORTH
CA 91311 TWX 3716555.....818-998-4444
L O'LENNICK EMP 190 ENG 30 OVER \$10,000K
MI Pertron Warren.....313-776-2200
OH Pertron Dayton.....513-433-2277
PA Pertron Drexel Hill.....215-449-6737

PERVEL INDUSTRIES BOX 61
COMMUNITY AVE PLAINFIELD
CT 06374 TWX 966450.....203-564-2741
S FURMAN EMP 350 ENG 15

PESCHEL INSTRUMENTS INC
1411 SE 10 ST CAPE CORAL
FL 33904.....813-574-3164
R BURNS EMP 25 ENG 2 \$500-\$1,000K
FR Duncan Instruments Ltd
Toronto ON.....416-742-4448
FR Commonwealth Eng & Sales
Montreal PQ.....514-744-1004

PETER PARTITION CORP 770
PARKSIDE AV BROOKLYN NY 11226.....212-693-6900
S RESNICK EMP 130 \$1,000-\$2,500K

PETROCELLI BOOKS INC 1101
STATE RD BLDG D PRINCETON
NJ 08540.....609-924-5851

PFANSTIEHL 3300 WASHINGTON
ST BOX 498 WAUKEGAN IL 60085
TWX 270391.....312-623-1360
M NELSON EMP 60 ENG 1 \$5,000-\$10,000K

PFIZER INC MATLS SCIENCE
PRODS GRP SPECIALTY METAL PRODS
96 TURNPIKE RD BOX 5848
WALLINGFORD CT 06492
TWX 963511.....203-265-7781
D BUEHL EMP 200 ENG 20 OVER \$10,000K
AZ J J Ronan Phoenix.....602-867-4920
IL L K Hayward Hoffman Estates.....312-381-9500
MA J E Fox Boston.....617-888-6600
PA B O Ford Philadelphia.....215-566-8006
TX P Hirmer Fort Worth.....817-467-5296

P G ELECTRONICS LTD 90
SIGNET DR 19 WESTON
ON M9L 1T5 TWX 065-27349.....416-741-7682
G GRAHAM EMP 2
DC P G Electronics Washington.....202-371-0013

PHALO CORP OPTICAL SYSTEMS DIV
65 MORELAND RD SIMI VALLEY
CA 93065 TWX 18-1549.....805-522-3333
B NASH EMP 40
IL George Radysh.....312-774-0272
NJ Dennis Kute.....609-877-1782
TX Andy Gerush.....214-680-3901

DISTRIBUTORS
CA Data Commun & Sys Group San Jose.....408-943-9770
GA X-Point Corp Norcross.....404-446-2764
IL Reliable Data Commun Oak Brook.....312-920-0554
MD Bekr Inds Burtonsville.....301-421-1200
MA Datacomm Assoc Framingham.....617-620-1800
MN Prairie Assoc Mpls.....612-559-7750
MO Midwest Marketing St Johns.....314-426-2500
NJ Scientific Devices Teaneck.....201-871-3916
NM Zeus Electronics Albuquerque.....505-256-9831
OH Gerhard & Assoc Columbus.....614-488-9751
TX Flair Data Sys Dallas.....214-696-2650

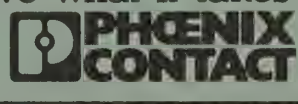
PHAOSTRON INSTRUMENT & ELECT CO
717 N CONEY AVE AZUSA
CA 91702-2205 TWX 910-321-4134.....818-969-6801
G BEARMAN EMP 200 ENG 4 \$5,000-\$10,000K
CA Lew Brooks Co Santa Ana.....714-544-8900
CA Serra Assoc Mt View.....415-964-4300
NY Phaostron East West Babylon.....516-293-6622
NY Trionics Assoc Great Neck.....516-466-2300
OK B W Weintraub Midwest City.....405-733-4215

DISTRIBUTORS
AZ Metermaster Phoenix.....602-243-4111
CA E I L Instr LA.....213-685-7020
CA Metermaster LA.....213-685-4340
CA Metermaster Palo Alto.....415-968-0313
CA Metermaster San Diego.....714-560-4841

CA Western Elec Sply Glendale.....	213-246-4861	OH WKM Assoc Dayton.....	513-434-7500	MN Loren Green Assoc Mnpls.....	612-571-6666
IL Metermaster Elk Grove Vlg.....	312-593-8650	OR Cascade Data Mktg Beaverton.....	503-641-9266	NJ Shortess-Rawson & Assoc.....	201-276-2525
TX Metermaster Garland.....	214-271-5671	PA John Bell Assoc Mechanicsville.....	215-794-7075	NY Kenilworth.....	201-276-2525
TX Meters & Inst Houston.....	713-644-1631	TN TEQSPEC II Morristown.....	615-587-0980	OH Fountain Young Co Syracuse.....	315-437-7733
TX Straughn Elect Beaumont.....	713-838-4563	TX Testech Inc Richardson.....	214-644-5010	OH Bradcor Elect Co Euclid.....	216-251-0888
TX Tiny's Inst San Antonio.....	512-341-6131	UT Trembly Assoc SLC.....	801-486-5292	TX Applied Data Sciences Dallas.....	214-243-0113
TX Ultra Inst Dallas.....	214-357-0297	WA Cascade Data Mktg Bellevue.....	206-747-6190	UT Cleveland Entrps of CO SLC.....	801-355-8424
WA Eichler-Richards Seattle.....	206-523-7888	WI Berndt Assoc Milwaukee.....	414-545-8400	VA Gans & Pugh Arlington.....	703-527-3262
		FR Technical Reps Inc Ponce PR.....	809-843-2260	WA Nucom Assoc Seattle.....	206-364-9911
PHILIPS DODGE MAGNET WIRE CO					
BOX 600 FORT WAYNE IN 46801.....	219-456-4444	PHILLIPS MFG CO 7334 N CLARK ST.....			
CA Phelps Dodge Santa Ana.....	714-540-8235	CHICAGO IL 60626.....	312-338-6200	PHOENIX MATERIALS CORP	
MI Phelps Dodge Ann Arbor.....	313-971-4500	D RACQUET EMP 50 ENG 7.....		833 BUTLER RD KITTANNING	
PHI CONRAC MACHINE TOOL					
9200 BOLSA AVE WESTMINSTER		CA Alphonix Newport Beach.....	714-833-3345	PA 16201.....	412-548-1531
CA 92683 TWX 683-6028.....	714-894-4711	CO L C Finishing Redwood City.....	415-369-5010	B GROSSMAN EMP 43 ENG 8 \$2,500-\$5,000K	
G KIMMEL EMP 80 ENG 4 \$5,000-\$10,000K		CO Chemical Sales Co Denver.....	303-333-8511	FL Ed Fury & Assoc N Palm Beach.....	305-848-2037
MO Hydra-Tech Fenton.....	314-343-5282	FL Datco Inc Clearwater.....	813-531-4255	DISTRIBUTORS	
PA Penntech Wexford.....	412-935-5000	GA G Hefner Marietta.....	404-422-5645	CA Elchem 1741 Saratoga San Jose.....	408-255-3034
WA Cragin & Assoc Kirkland.....	206-821-7726	IL R R Floody Co Rockford.....	815-399-1931	PHOENIX MICROSYSTEMS INC	
DISTRIBUTORS		MD W L Lawrence Baltimore.....	301-235-4161	BOX 4206 HUNTSVILLE AL 35802.....	205-881-2173
CA Bolden Machy Santa Ana.....	714-751-8002	MI J Malteson Detroit.....	313-342-4575	T STEPHENS EMP 75 ENG 25 \$2,500-\$5,000K	
CT Montgomery-Peterson South		MN Carlson Thermoplastics Mnpls.....	612-944-6603	PHOENIX WIRE INC 11 LAKE	
Windsor.....	203-528-9774	MO Larry Goad Co St Louis.....	314-394-6334	CHAMPLAIN DR SOUTH HERO	
IL A D Tube Equip Lombard.....	312-620-1566	NM Bob Berg & Son Albuquerque.....	505-299-8173	VT 05486.....	802-372-4561
TX Fab Tech Houston.....	713-463-8815	NY J Dempsey R Balton NY.....	212-685-9137	W LEGGE EMP 25 ENG 1 \$500-\$1,000K	
FR UBJ Don Mills ON.....	416-266-0194	NC J Griffith Charlotte.....	704-525-5331	PHONIX TERMINAL BLOCKS INC	
PHILADELPHIA INSULATED WIRE		OH Bob Bruns & Assoc Cincinnati.....	513-385-3425	BOX 4100 HARRISBURG PA 17111	
CO INC 333 NEW ALBANY RD		OK Tri-Mech Co Okla City.....	405-478-2558	TXW 510-650-4913.....	717-944-1300
MOORESTOWN NJ 08057		PA L R Nourie Co Canonsburg.....	412-746-4200	DISTRIBUTORS	
TXW 710-897-0187.....	609-235-6700	RI R Poynton North Scituate.....	401-521-3522	AZ Sterling Electronics Phoenix.....	602-258-4531
EMP 100 ENG 3 OVER \$10,000K		WA Process Sys Inc Seattle.....	206-246-0224	CA Electronic Supply Co Riverside.....	714-787-9220
PHILAMON INC 33 DUBON CT		WI O'Donohue Industries Brookfield.....	414-781-2900	CA Omega Supply Concord.....	415-671-7796
FARMINGDALE NY 11735		PHILLIPS PROCESS CO INC		CA Nelson West Coast Duarte.....	213-303-1526
TXW 510-224-6512.....	516-249-2700	192 MILL ST ROCHESTER		CA Cal Switch Gardena.....	213-770-2330
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B ERDE EMP 7 ENG 2 \$500-\$1,000K	
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PLASMARC TECHNOLOGIES INC	
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G GALAIDA EMP 26 ENG 3 \$500-\$1,000K	
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J RAFFEL EMP 85 ENG 12 OVER \$10,000K	
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WI Newark Elect Milwaukee	414-463-1100
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POWERCUBE CORP 8 SUBURBAN PK DR		
BILLERICA MA 01821		
TWX 710-347-6792		
AL	Remco Huntsville	205-533-3763
AZ	Thorson Desert States Scottsdale	602-998-2444
CA	ESCO Assoc Sunnyvale	408-745-1410
CA	Detomassi & Grupp Torrance	213-327-1775
CO	Thorson Rocky Mtn Englewood	303-779-0666
FL	Technology Mktg Assoc Orlando	305-857-3760
GA	Remco Atlanta	404-447-6937
IL	Koby & Assoc Elk Grove Vlg.	312-439-6550
MD	Burgin-Kreh Baltimore	301-265-8500
MA	Shain Assoc Needham Hts	617-449-4380
MI	Fred H Gehrike & Assoc Southfield	313-559-5363
MN	Electronic Sales Agency	
Bloomington		
MO	Harris-Hanson Co St Louis	314-432-3611
NM	Thorson Desert States Albuquerque	505-293-8555
NY	Phase 4 Inc Great Neck	516-482-1790
NY	Bob Dean Ithaca	607-257-1111
NC	Remco Raleigh	919-847-5079
TX	Carey McMahon & Zerbe Garland	214-681-1414
UT	Thorson Rocky Mtn W Valley City	801-973-7969
WI	Schreiber/Arterburn Milwaukee	414-545-7800
FR	Norgay Enterprises Ltd	
Toronto ON		
		416-239-3025

POWER DESIGNS INC 1700 SHAMES DR		
WESTBURY NY 11590		
TWX 510-222-6561		
NY	J REILLY EMP 100 ENG 10 \$2,500-\$5,000K	516-333-6200
ADV PG 341		
AZ	Gemini Sales Scottsdale	602-948-5900
CA	O'Halloran Assoc North Hollywood	213-877-0173
CA	O'Halloran Assoc Palo Alto	415-326-1493
IL	Loren Green Assocs Elk	
Grove Village		
		312-593-0282
IN	Loren Green Assocs Indianapolis	317-293-9827
MA	AST/Servosystems Inc North	
BillERICA		
		617-667-8541
MN	Loren Green Assocs Minneapolis	612-781-1611
FR	Subtec Ltd Ottawa ON	613-744-3066

DISTRIBUTORS		
NY	The Instrument Mart Great Neck	516-487-7430

POWER DYNAMICS INC 59 LAKESIDE		
AVE BOX 539 WEST ORANGE		
NJ 07052 TWX 666173		
J PAPIANNI		
ADV PG 38		
CA	Bart Budge Mt View	415-961-0940
CA	David Budge & Assoc Lagoona	
Niguel		
		714-831-7720
CA	David Budge Associates San Diego	619-587-0131
CO	Delta Sales Assoc Englewood	303-799-0646
FL	E P M Corp Margato	305-977-0331
FL	EMP Corp Orlando	305-425-6149
GA	Electro Sales Atlanta	404-394-1122
KS	Microtronics Inc Shawnee Mission	913-262-1444
MI	Tech Rep Ypsilanti	313-572-1950
MI	Tech-Rep Saranac	616-642-6594
MN	RK Sales Mpls	617-571-1001
MO	Microtronics St Charles	314-946-8500
NH	D A Crowley & Assoc Milford	603-673-7050
NJ	M T S West Caldwell	201-228-4418
NY	C W Floring Assoc Scottsville	716-889-4614
NY	C W Floring Assoc Poughkeepsie	914-471-2973
NY	C W Floring Assoc Fayetteville	315-637-4552
NC	Barker Assoc Raleigh	919-876-0282
OH	KW Elect Sales Dayton	513-890-2150
OH	K W Elect Shaker Hts	216-491-9177
OH	K W Elect Worthington	614-888-0483
OR	Electronic Comp Sales Tigard	503-245-2342
PA	Elf Sales Prospect Pk	215-534-3340
PA	K W Elect Allison Park	412-487-4300
TN	Electro Sales Chattanooga	615-267-4260
TX	Rem Air Components Dallas	214-234-1069
UT	Aspen/Sage Assoc SLC	801-467-2401
WA	Electronic Comp Sales Mercer	
Island		
		206-232-9301
FR	Casanova Ind Sales Old	
San Juan Sta PR		
		809-753-8674
FR	Tienkay Inc Toronto ON	416-736-1221

DISTRIBUTORS		
AR	Radio Inc Ft Smith	501-646-5200
CA	Force Elec El Segundo	213-772-1324
CA	Force Elec San Jose	408-943-1324
CA	Rose Elec San Jose	408-263-9700
CA	Energy Sales Mt View	415-969-0800
CA	Peters-D de Laet So San Francisco	415-873-9595
CA	El-Com/Cabletek Cerritos	213-404-2961
CA	Southland Fastener San Diego	619-578-6630
CO	Denver Wintronics Arvada	303-431-7161
CT	Sager Elec Supp Wallingford	203-265-4600
FL	KSM Inc Ft Lauderdale	305-971-5900
FL	NRC Elect Ft Lauderdale	305-772-4500

GA	KSM Electronics Atlanta	404-458-2013
IL	Sub-Sem Crystal Lake	312-782-3954
MA	Impact Sales Canton	617-821-1500
MA	Sager Elec Supp Hingham	617-749-6700
MA	Now Elect Framingham	617-872-5876
MI	Empire Electronics Troy	313-585-8130
MN	Parts 1 New Brighton	612-633-8079
NJ	Castle Industries Englewood	
Cliffs		
		201-592-0200
NY	Sager Elec Hauppauge	516-348-1300
OH	Schuster Elec Cincinnati	513-489-1400
OH	Schuster Elec Twinsburg	216-425-8134
OK	Radio Inc Tulsa	918-587-9123
OK	Radio Inc Oklahoma City	405-689-0714
OR	Micro Power Elec Wilsonville	503-694-5353
TX	SW Elec Richardson	214-234-3050
TX	SW Elec Stafford	713-240-4000
TX	SW Elec Austin	512-837-8971
TX	Force Elec Houston	713-581-8644
TX	Force Elec Farmers Branch	214-247-9955
TX	Off-The-Shelf Comp Dallas	214-247-0052
TX	JV Elec Houston	713-447-5800
TX	JV Elec Austin	512-339-1131
TX	JV Elec Richardson	214-641-4272
UT	Wintronics SLC	801-483-1882
WA	Micro Power Elec Kent	206-854-4483
FR	PS Components Willowdale ON	416-498-0214

POWEREX INC HILLIS ST YOUNGWOOD		
PA 15697 TWX 510-468-2840		
ADV PG 478		
412-925-7272		

POWER FUNCTIONS ENGINEERING INC		
3831 CAVALIER DR GARLAND		
TX 75042		
		214-278-0996

POWER GENERAL CORP 152		
WILL DR BOX 189 CANTON		
MA 02021 TWX 710-348-0200		
		617-828-6216
J	GALLAGHER EMP 400 ENG 14 OVER \$10,000K	
AZ	TC Electronic Sales Scottsdale	602-994-5153
CA	Sales One Redwood City	415-367-1188
CA	XB Sales Inc Orange	714-998-0200
CA	Sales One Milpitas	408-945-1250
CO	Reps Inc Englewood	303-799-6063
CT	Power Mark Avon	203-678-0123
Electro Mechanical Standards		
Melbourne		
		305-724-1027
HI	Aloha Assoc Kihel	808-941-1574
IL	T-Squared Assoc Palatine	312-981-2144
MI	Favco Inc Birmingham	313-644-0173
MN	Com-Tek Sales Minneapolis	612-888-7011
MO	Palatine Engrg & Sales Hazelwood	314-839-0800
NJ	R O I Sales Rockaway	201-627-8879
NY	Net Sales Co Fairport	716-467-4538
NC	Murcota Winston Salem	919-722-9445
OH	McFadden Sales Inc Columbus	614-459-1280
PA	Rivco January Inc Norristown	215-631-1414
TX	Mech-Tron Marketing Richardson	214-437-4833
VA	Beacon North Fairfax	703-591-1300
WA	Huntley Assoc Everett	206-353-1833
FR	Frank Eakin Sales Ltd Ontario	416-245-3600

POWER GROUP INTERNATIONAL		
2200 W 66 ST DEPT 227		
RICHFIELD MN 55423		
		612-890-1360
I SMITH EMP 500 \$500-\$1,000K		

POWER INTEGRITY CORP BOX		
9682 PLAZA STA GREENSBORO		
NC 27408		
		919-379-9773
J FESMIRE EMP 10 ENG 2		
CA	D P Assoc San Jose	408-296-1492
GA	Rick Burns & Assoc Atlanta	404-951-1181
IL	L-Tec Inc Itasca	312-773-2900
IN	Marketing Engineers Indpls	317-872-5665
IA	The Beams Co Des Moines	515-255-1148
KS	The Beams Co Shawnee Mission	913-631-0300
MD	Carwithen Assoc Silver Spring	301-589-9040
MO	The Beams Co St Louis	314-434-8448
NY	Bytec Reps Wantagh	516-781-7400
NC	Rick Burns & Assoc Raleigh	919-876-2224
OH	Thompson & Assoc Dayton	513-435-7733
TX	SW Marketing Dallas	214-341-8631
WI	L-Tec Inc Milwaukee	414-774-1000

POWERMARK 3855 RUFFIN RD		
SAN DIEGO CA 92123		
		619-565-8363
R BAIETTO EMP 60 ENG 2 \$5,000-\$10,000K		
AL	SESCO Birmingham	205-988-8304
AK	John Bagby & Assoc Anchorage	907-274-8531
AZ	Anderson Co Phoenix	602-266-2070
CA	GRU Assoc Fullerton	714-738-0903
CA	Ruppert Sales & Engrg San Jose	408-998-8717
Cleveland Entrps of CO		
Colorado Springs		
		303-597-8872
CT	Power Conversion Sys N Haven	203-281-7870
FL	SESCO St Petersburg	813-576-6991
GA	SESCO Atlanta	404-458-6231
HI	Industrial Electronics Honolulu	808-533-6095
IL	Loren Green Assoc Elk Grove	312-593-0282
KS	ATECH Shawnee	913-268-9644
LA	SESCO Baton Rouge	504-928-4951
MD	Powell-Pendergraph Gaithersburg	301-921-4200
MA	Power Conversion Sys Wellesley	617-235-7884

MI	Jim Finnegan & Co Spring Lake	616-846-4980
MN	Loren Green Mpls	612-571-6666
MO	ATECH St Louis	314-576-2884
NH	Power Conversion System	
Londonderry		
		603-434-2371
NJ	Ballou Inc Ridgewood	201-444-6990
NY	Trott Elctns Clarence	716-634-8500
NY	Trott Elctns Pittsford	716-586-8251
NC	SESCO Cary	919-467-7492
OH	Jim Finnegan & Co Cleveland	216-238-5905
OK	Sesco Tulsa	918-622-3868
PA	J E Cuesta & Co King of Prussia	215-265-5800
SC	Sesco Greenville	803-297-8306
TN	Sesco Knoxville	615-588-5455
TX	SESCO Houston	713-999-3510
UT	Telcom Mktg Ltd SLC	801-942-4387
VA	Powell-Pendergraph Richmond	804-270-1400
WA	Underwood-Hanly Bellevue	206-643-1791

POWER/MATE CO AN RTE CO		
514 S RIVER ST HACKENSACK		
NJ 07601 TWX 710-990-5023		
		201-440-3100
R ALLISON EMP 360 ENG 10 OVER \$10,000K		

POWER-MATIC INC 7667 VICKERS ST		
SAN DIEGO CA 92111		
		619-292-4422
E COOPER EMP 6 ENG 2 \$500-\$1,000K		
CA	Cutlass Elctns Torrance	213-324-7360
NY	Bytec Wantagh	516-781-7400

POWER-ONE INC LINEAR DIV		
740 CALLE PLANO CAMARILLO		
CA 93010 TWX 910-336-1297		
		805-484-2806
J SMITH EMP 356 ENG 6 OVER \$10,000K		
For Listings See Power-One Inc Switching Div		

POWER-ONE INC SWITCHING DIV		
833 FLYNN RD CAMARILLO		
CA 93010TWX 910-336-1297		
		805-482-0757
R ZEIDLER EMP 156 ENG 5 OVER \$10,000K		

AL	FLW Southeast Huntsville	205-536-6207
AZ	Systems Sales of AZ Tempe	602-829-9338
CA	A-F Sale Engrg Pasadena	213-681-5631
CA	Richards Assoc San Jose	408-297-3010
CA	Power-One Inc San Jose	408-292-1070
CA	Power-One Inc Camarillo	805-987-8741
CO	Quorum 3 Denver	303-696-8480
FL	Electrocraft Largo	813-530-4749
GA	FLW Southeast Marietta	404-424-1731
IL	L-Tec Itasca	312-773-2900
IN	Power-One Inc Palatine	312-359-2980
IN	J & B Engrg Ft Wayne	219-483-2813
IA	Lorenz Sales Cedar Rapids	319-377-4666
KS	Advanced Tech Sales Overland Pk	913-842-6675
MA	Forsberg Sales Tauton	617-460-0400
MA	Power-One Inc Marlboro	617-463-3520
MI	L H Dickelman Co Southfield	313-563-1166
MI	Geo Russell & Assocs Mpls	314-227-4448
MO	Advanced Tech Sales St Louis	402-475-4660
NE	Lorenz Sales Lincoln	505-881-8877
NM	System Sales Albuquerque	516-466-2300
NY	Trionic Assoc Great Neck	516-466-9587
NY	C W Beach Co Syracuse	315-478-3416
OH	Eastern Component Sales Raleigh	919-457-2242
OK	Tom Mulligan Co Columbus	614-457-2242
OR	Advance Tech Sales Tulsa	918-664-0482
OK	W3 Assoc Portland	503-294-0742
PA	Eastern Comp Sales West	
Conshohocken		
		215-825-8610
TN	FLW Southeast Memphis	901-325-3563
TX	Advance Technical Sales Dallas	214-340-1300
UT	Quorum 3 SLC	801-943-9227
VA	Eastern Components Sales	
Manassas		
		703-368-3936
WA	W3 Assoc Seattle	206-285-2667
WI	L-Tec Milwaukee	414-774-1000

DISTRIBUTORS		
AZ	Arrow Elect Tempe	602-968-4800
AZ	Sterling Electronics Phoenix	602-258-4531
CA	Compumech Elect San Jose	408-289-9171
CA	FLW Costa Mesa	
		715-851-8961
CA	Arrow Elect San Diego	619-441-7500
CA	Arrow Elect Chatsworth	408-745-6600
CA	Arrow Elect Sunnyvale	408-799-8300
CO	Diplomat Electronics Wheat Ridge	303-696-1111
CO	Arrow Elect Aurora	303-696-1111
CT	Arrow Elect Wallingford	203-255-7741
CT	Greene-Shaw Co New Haven	203-397-0710
FL	Arrow Elect Ft Lauderdale	305-776-7790
FL	Electronic Equip Co Miami	305-871-3500
GA	Arrow Elect Norcross	404-449-8253
IL	Arrow Elect Schaumburg	312-397-3440
IL	Classic Components Northbrook	312-772-9650</

MI	Arrow Elect Ann Arbor.....	313-971-6020
MN	Arrow Elect Edina.....	612-830-1800
MO	Finnigan Elect St Charles.....	314-946-6201
MO	Arrow Elect St Louis.....	314-567-6888
NE	Scott Elect Lincoln.....	402-466-8221
NH	Arrow Elect Manchester.....	603-668-6968
NJ	Arrow Elect Marlton.....	609-596-8000
NJ	Zebra Elect Pompton Plains.....	201-839-9040
NJ	Diplomat Electronics Totowa.....	201-785-1830
NJ	Sterling Electronics South Plainfield.....	201-764-2000
NM	Arrow Elect Albuquerque.....	505-243-4566
NY	CAM/RPC Elect Henrietta.....	716-865-2080
NY	Arrow Elect Melville.....	516-391-1546
NY	Logicom Elect Mamaroneck.....	914-698-9332
NY	Zeller Elect Rochester.....	716-254-8840
NY	Diplomat Electronics Melville.....	516-454-6400
NY	Pioneer-Standard Vestal.....	607-748-8211
NC	Arrow Elect Winston Salem.....	919-725-8711
NC	Arrow Electronics Raleigh.....	919-876-3132
OH	CAM/RPC Elect Cleveland.....	216-461-4700
OH	Applied Data Mgt Cincinnati.....	513-579-8108
OH	Arrow Elect Centerville.....	513-435-5563
OH	Pioneer-Standard Dayton.....	513-236-9900
OK	Arrow Electronics Tulsa.....	918-665-7700
OR	Radar Electric Portland.....	503-232-3404
PA	CAM/RPC Elect Pittsburgh.....	412-782-3770
PA	Arrow Elect Monroeville.....	412-856-7000
PA	Pioneer-Standard Horsham.....	215-674-4000
RI	Major Edwards Electronics Warwick.....	401-781-3000
TX	Pioneer-Standard Austin.....	512-835-4000
TX	Force Electronics Dallas.....	214-438-5700
TX	Force Electronics Houston.....	713-772-8483
TX	Arrow Elect Dallas.....	214-386-7500
TX	Sterling Electronics Houston.....	713-527-9800
UT	Arrow Elect SLC.....	801-539-1135
UT	Diplomat Electronics SLC.....	801-486-4134
VA	Arrow Electronics Richmond.....	804-282-0413
WA	Arrow Elect Bellevue.....	206-643-4800
WI	Arrow Elect Oak Creek.....	414-764-6600

POWER PAC INC 32 MEADOW ST		
SOUTH NORWALK CT 06854.....		
A PARTNER EMP 150 ENG 5 \$5,000-\$10,000K		
AL	BCI Inc Box 1332 Huntsville.....	205-539-4411
AZ	Dale Elctn Sales Tempe.....	602-252-4222
CA	AARD Engrg 1 First St Los Altos.....	415-948-5740
CA	Power Dyne Westlake Vlg.....	818-991-0632
CT	Digital Sales Assoc Hamden.....	203-248-3641
GA	BCI Inc Chamblee.....	404-455-0405
MD	W A Brown Co Seabrook.....	301-577-6105
MA	Digital Sales Assoc Waltham.....	617-899-4300
MN	R J Inc Mpls.....	612-866-3661
NJ	Emtec Sales East Hanover.....	201-428-0600
NY	S T Woolard & Co Cazenovia.....	315-655-8145
NY	Emtec Sales Melville.....	516-752-1630
NC	BCI Inc Raleigh.....	919-781-9426
PA	Bell & Whitaker Harrisburg.....	717-763-8704
TX	GW Products Plano.....	214-422-1746

POWER SCIENCE INC 7667		
VICKERS ST SAN DIEGO CA 92111.....		
E COOPER EMP 4 ENG 2 \$250-\$500K		
CA	Cutlass Elctns Torrance.....	213-324-7360
NY	Bytec Wantagh.....	516-781-7400

POWER-SONIC CORP 3106 SPRING		
ST BOX 5242 REDWOOD CITY		
CA 94063 TWX 348400.....		
B ENDER EMP 15 ENG 3 \$5,000-\$10,000K		
ADV PG 35		
CA	English/Damco Laguna Hills.....	714-837-3801
FL	SRT Mktg Tampa.....	813-884-4805
ID	Power-Sonic Sun Valley.....	208-726-3332
IL	Power-Sonic River Forest.....	312-366-7078
MA	Power-Sonic Natick.....	617-879-5632
TX	T P C Dallas.....	214-357-8207

DISTRIBUTORS		
AL	Forbes Dist Co Decatur.....	205-353-4762
AZ	Dalis Elect Supply Phoenix.....	602-275-2885
CA	Mil-Comm Chatsworth.....	818-998-3111
CA	Allied Elect Hayward.....	415-487-5250
CA	Components Ctr Fountain Valley.....	714-979-0433
CA	Battery Specialties Long Beach.....	213-437-1809
CA	R & D Elect Parts Milpitas.....	408-262-7144
CA	Zack Electronics San Francisco.....	415-626-1444
CA	Zackit Sacramento.....	916-446-3131
CO	Hensley Battery Denver.....	303-455-3643
CT	Secres Distributors Westport.....	203-226-7371
FL	Leader Elect Tampa.....	813-870-3315
GA	Arrowhead Security Atlanta.....	404-955-1006
IL	Kimball Electronics Boise.....	208-342-3559
IL	Allied Elect Elgin.....	312-697-8200
KS	Electronics Supply Kansas City.....	816-931-3383
LA	Ralph's Elect Lafayette.....	318-233-0105
MD	Arrowhead Security Gaithersburg.....	301-963-3008
MA	Adcour Sharon.....	617-784-8123
MI	Alarm Sply Livonia.....	313-591-9100
MN	Universal Service Ctr Burnsville.....	612-894-3660
MO	Olive Elec St Louis.....	314-426-5000
MO	Walters Radio Supply KC.....	816-531-7015
NE	Scott Elect Sply Lincoln.....	402-466-8221
NJ	Arrowhead Security S Hackensack.....	201-488-0003
NM	Betatron Inc Albuquerque.....	505-344-2381
NY	J A McDermott Corp Ridgewood.....	212-456-3660
NY	Allied Elect NY Mineola.....	516-248-2360
NC	Kirkman Elctns Winston Salem.....	919-722-9131
OH	Security Prods Cleveland.....	216-451-1400
OK	Electronic Supply Okla City.....	405-232-5215
OK	Radio Inc Tulsa.....	918-587-9123
PA	Triangle Elect Pittsburgh.....	412-441-9659
TN	Bluff City Electronics Memphis.....	901-345-9500
TX	Allied Elect Ft Worth.....	817-336-5401
TX	Harrison Equip Stafford.....	713-879-2600
UT	Kimball Electronics SLC.....	801-328-2075
VA	Sterling Electronics Richmond.....	804-226-2190
WA	Energy Sales Redmond.....	206-883-2343

POWER SYSTEMS INC 12 TOBEY RD		
BLOOMFIELD CT 06002		
TWX 710-425-8778.....		
R MILNE EMP 325 ENG 9 OVER \$10,000K		
AZ	The Powerhouse Phoenix.....	602-246-1614
CA	The Powerhouse Santa Ana.....	714-549-9599
CA	The Powerhouse San Jose.....	408-748-1555
FL	R K Welter & Assoc Eustis.....	904-357-3011
GA	R K Welter & Assoc Duluth.....	404-476-9455
MA	Comptech Inc Tyngsborough.....	617-649-3030
MN	Merrill Franklin Co Bloomington.....	612-854-9446
NJ	Power 2 Inc Cherry Hill.....	609-424-6737
NY	KLM Garner Inc Clark Mills.....	315-853-6126
NC	R K Welter & Assoc Carrboro.....	919-967-8044
TX	Scientific Sales Co Richardson.....	214-231-6541

POWERTECH INC 0-02 FAIR LAWN AVE		
FAIR LAWN NJ 07410 TWX 353970.....		
A MELNYK EMP 45 ENG 4 \$2,500-\$5,000K		
CA Power Component Sales Tarzana.....		
213-881-9111		

POWER TECHNOLOGY INC BOX 9769		
LITTLE ROCK AR 72219		
TWX 910-722-7313.....		
J WEBB EMP 68 ENG 6 \$2,500-\$5,000K		
501-568-1995		

POWERTEC INC 20550 NORDHOFF ST		
CHATSORTH CA 91311		
TWX 910-494-2092.....		
D RAY EMP 400 ENG 10 OVER \$10,000K		
818-882-0004		
AL	Over & Over Huntsville.....	205-837-7105
CA	Bestronics Woodland Hills.....	213-704-5616
CO	Omega Ltd Englewood.....	303-762-1921
CT	Pat Jenks North Haven.....	203-239-6201
DE	G L Williams Haddonfield.....	609-428-6060
FL	E I R Inc Altamonte Springs.....	305-830-9600
GA	Over & Over Norcross.....	404-449-6205
IL	Carlson Elk Grove Vlg.....	312-956-8240
IN	Jim Finnegan & Co Ft Wayne.....	319-747-9525
IA	Carlson Cedar Rapids.....	319-377-6341
MN	Pat Jenks Woburn.....	617-938-0488
MA	Electronic Innovators Eden Prairie.....	612-941-0830
MO	Thomas Dowell & Assoc St Louis.....	314-849-4234
NJ	G L Williams Haddonfield.....	609-428-6060
NY	Labtronics Inc Syracuse.....	315-455-7314
NC	Over & Over Charlotte.....	704-527-3070
OH	Jim Finnegan & Co Cleveland.....	216-238-5905
OK	Norcom Tulsa.....	918-832-7747
PA	Powertec Jenkintown.....	215-572-1856
TN	Over & Over Antioch.....	615-834-0140
TX	Norcom Dallas.....	214-386-4888
WI	Carlson Milwaukee.....	414-476-2790
WR	Kaytronics Ville St Pierre PQ.....	514-367-0101

POWER TEN INC 486 MERCURY DR		
SUNNYVALE CA 94086.....		
V MUTASCIO EMP 27.....		
408-738-5959		
AZ	Jayson Co Inc Phoenix.....	602-867-1964
NJ	Ramapo Wayne.....	201-839-0800
NY	Scientific Devices Rochester.....	716-334-2445
OR	Westcon Portland.....	503-283-0132
PA	Koebert Glenside.....	215-887-2310
TX	Ebert Elctn Sales Latexo.....	409-687-4342

POWR-UPS CORP 50 ORVILLE DR		
BOHEMIA NY 11716.....		
S SUMMER EMP 20 ENG 2 \$500-\$1,000K		
516-589-3602		
CA	ESCO Fullerton.....	714-879-7260
IL	A G Erickson Oak Brook.....	312-323-1367
KS	LSC Inc Shawnee Mission.....	913-362-2121
OH	A J Assoc Dover.....	216-343-2224
PA	Holmes Assoc Audubon.....	215-666-0636
PA	Gregg Glass Assoc Ingomar.....	412-366-6664

PPC PRODUCTS CORP 7516		
CENTRAL INDUS DR RIVIERA BEACH		
FL 33404 TWX 7611.....		
K ANDERSON EMP 65 ENG 8 \$5,000-\$10,000K		
305-848-9606		

PPD INC HWY 70W RESCO CT		
BOX 31347 RALEIGH NC 27612		
TWX 510-928-0590.....		
F CONSTANTINO EMP 40 ENG 6		
919-781-3955		

THE PQ CORP BOX 840 DEPT EBG		
VALLEY FORGE PA 19482		
TWX 4761129.....		
215-293-7200		
R GIRARD EMP 600		
CA PQ Corp San Jose.....		
408-279-4686		

PPM INC 4521 EMERY IND PKWY		
CLEVELAND OH 44128.....		
A BLECHER		
AZ	J Smith & Assoc Phoenix.....	602-267-0981
CO	J Smith & Assoc Colo Springs.....	303-597-5343
MI	Tibby Co Hazel Park.....	313-547-3550
NM	J Smith & Assoc Albuq.....	505-265-3406
NC	Blnco Charlotte.....	704-366-5092
OH	Tibby Co Dayton.....	513-277-3822
OH	Tibby Co Cleveland OH.....	216-271-5335

PRACTICAL AUTOMATION INC		
TWO RESEARCH DR SHELTON		
CT 06484 TWX 6813310.....		
203-929-5381		
R BANZACA EMP 175 ENG 5 \$5,000-\$10,000K		
CA	Thorson Co Mt View.....	415-964-9300
CA	Gemini Assoc Los Alamitos.....	213-594-9618
FL	EMA Inc St Petersburg.....	813-577-7700
MI	R P Urban & Assoc Grand Rapids.....	616-245-0511
MN	Chris & Assoc Apple Valley.....	612-432-1823
OH	Electro Sales Cleveland.....	216-261-5440
TX	Barry Sales Richardson.....	214-234-0255

PRACTICAL PRODUCTS CO 7820		
CONCORD HILLS LA CINCINNATI		
OH 45243.....		
513-891-1471		
S KRAFT EMP 6 ENG 2 \$1,000-\$2,500K		

PRAGMATIC DESIGNS INC 950		
BENICIA SUNNYVALE CA 94086		
TWX 171627.....		
408-736-8670		
J HALL EMP 24 ENG 7 \$1,000-\$2,500K		

PRECICONTACT INC 1150 WHEELER		
WAY BOX 798 LANGHORNE		
PA 19047 TWX 83-4253.....		
215-757-1202		
E SWIRSKY EMP 120 ENG 5		

PRECISION CIRCUITS INC		
468 INDUSTRIAL WAY W EATONTOWN		
NJ 07724 TWX 710-722-6694.....		
201-542-7400		
J LOBUE EMP 85 ENG 4 \$2,500-\$5,000K		
CA W J Miller Co Palos Verdes		
Peninsula.....		
213-375-3001		
MD R Volk Glen Arm.....		
301-592-7154		

PRECISION CONNECTOR DESIGNS INC		
5 LOWELL AVE WINCHESTER		
MA 01890.....		
617-721-1280		
B BRENNAN		

PRECISION CRAFTS INC 3538	
FOOTHILL BLVD LA CRESCENTA	
CA 91214	213-248-3211
R PLUMLEY EMP 15 \$250-\$500K	

MI	Electrosales Assoc Livonia	313-474-7320
NM	Cleveland Entrys Albuq	505-265-7893
OH	Electrosales Dayton	513-426-5551
OR	Topp Eng Sales Corp Portland	503-244-7265
UT	Cleveland Entrys SLC	801-355-8424
VA	Gans & Pugh Assoc Arlington	703-527-3262
WA	Topp Eng Sales Corp Bellevue	206-747-5400
FR	Rayonics Scientific Inc Downsview ON	416-736-1600

PRECISION INC	3415 48TH AVE N	
	MINNEAPOLIS MN 55429	612-537-9340
	D ANDERSON EMP 50 ENG 4 \$1,000-\$2,500K	

PRECISION MECHANISMS CORP	44 BROOKLYN AVE WESTBURY	
	NY 11590	516-333-5955
	L CANICK EMP 26 ENG 3 \$1,000-\$2,500K	

PRECISION METALLURGICAL		
CORP A LEACH & GARNER CO		
34 EXTENSION RD ATTLEBORO		
MA 02703 TWX 710-346-1098		617-226-1200
D DUBUC EMP 150 ENG 5 OVER \$10,000K		
ADV PG 261		
CA	Ruel Assoc Sunnyvale	402-732-9505
IL	D Dubuc Bartlett	312-695-8098
IL	W Branningan Evanston	312-475-1496
MA	L Swadling Attleboro	617-695-8098
NC	W Balme Raleigh	919-847-0770
OH	Bray Assoc Chagrin Falls	216-247-4474

PRECISION METAL PRODUCTS CO INC		
CENTENNIAL DR BOX 6026		
PEABODY MA 01960		
TXW 710-393-0113		617-532-5500
R DEGNAN EMP 55 ENG 3 \$2,500-\$5,000K		
AZ	J Osborn Assoc Phoenix	893-2385
CA	Paul Oneal & Assoc Corte Madera	924-1691
CA	Impact Electns Anaheim	533-1351
CO	Challenge Sales Inc Arvada	427-3149
FL	Chaco Sales Ft Lauderdale	561-3155
GA	Component Sales Inc Greenville	288-1922
IL	Hill-Gray Assoc Elmhurst	832-4101
IN	Schlinger Assoc So Bend	291-6258
KS	K & M Sales Co Shawnee Mission	262-1444
MA	Anchor Engr Newton Upper Falls	964-6205
NJ	ESA Cherry Hill	667-4066
NY	C W Floring & Assoc Syracuse	478-2149
NY	LJ Roth Assoc Ltd Verona NJ	543-3000
OH	Electro-Corn Dayton	898-5140
WA	W J Stulgis Co Woodinville	483-8476
FR	A Deskin Sales Co Markham ON	495-1412

PRECISION MONOLITHICS INC		
1500 SPACE PARK DR BOX 58020		
SANTA CLARA CA 95052		
TXW 910-338-0218		408-727-9222
J NALL EMP 850 ENG 100 OVER \$10,000K		
AL	EAMA Huntsville	205-830-4030
AZ	PMI Scottsdale	602-941-1946
CA	PMI LA	714-666-0140
CA	PMI Santa Clara	408-727-6616
CO	PMI Littleton	303-979-8533
CT	PMI Unionville	203-673-9995
FL	PMI Altamonte Springs	305-788-1403
GA	EAMA Atlanta	404-992-7240
IL	PMI Schaumburg	312-885-8440
IN	Technology Mktg Corp Ft Wayne	219-432-5553
IA	Rush & West Assoc Davenport	319-326-3091
KS	Rush & West Assoc Olathe	313-764-2700
KY	Technology Mktg Corp Louisville	502-499-7808
MD	Conroy Sales Baltimore	301-296-2444
MA	PMI Natick	617-655-8900
MI	PMI Detroit	313-231-2964
NM	BFA Corp Albuquerque	505-292-1212
NY	J-Square Mktg Hicksville	516-935-3200
NY	L-Mar Assoc East Syracuse	315-437-7779
NC	EMA Winston Salem	919-784-7304
OH	Del Steffen & Assoc Dayton	513-293-3145
OK	Genzel Sales & Assoc Tulsa	918-622-7744
OR	Northwest Marketing Portland	503-620-0441
PA	PMI Philadelphia	215-675-7600
TN	EMA Jonesboro	615-753-8081
TX	PMI Dallas	214-341-1742
UT	Front Range Mktg SLC	801-364-6481
WA	Northwest Marketing Bellevue	206-455-5846
FR	Source Elect Ltd Rexdale ON	613-592-5392
FR	Hi-Tech Sales Ltd Winnipeg MB	204-786-3343

DISTRIBUTORS		
AL	Hall-Mark Electronics Huntsville	205-837-8700
AL	Pioneer Elect Huntsville	205-837-9300
AZ	Bell Ind Tempe	602-966-7800
AZ	Hall-Mark Elect Phoenix	602-437-1200
AZ	Anthem Elect Tempe	602-966-6600
CA	Bell Ind Sunnyvale	408-734-8570
CA	Bell Ind Gardena	213-515-1800
CA	Anthem Electronics San Diego	619-453-9005
CA	Anthem Electronics San Jose	408-946-8000
CA	Hall-Mark Elect San Diego	619-268-1201
CA	Hall-Mark Elect San Jose	408-946-0900
CA	Bell Industries Garden Grove	714-220-0681
CA	Semi Dice Inc Los Alamitos	213-594-4631
CO	Bell Ind Wheat Ridge	303-424-1985
CO	Anthem Electronics Englewood	303-790-4800
CT	Pioneer Electronics Norwalk	203-853-1515
FL	Hall-Mark Electronics Ft Lauderdale	305-971-9280
FL	Hall-Mark Electronics Orlando	305-855-4020
FL	Pioneer Electronics Altamonte Springs	305-834-9090
FL	Hall-Mark Elects Clearwater	813-530-4543
GA	Hall-Mark Electronics Norcross	404-447-8000
GA	Pioneer Elects Norcross	404-448-1711
IL	Hall-Mark Electronics Wood Dale	312-860-3800
IL	Pioneer Electronics Elk Grove Vlg	312-437-9680
IN	Pioneer Electronics Indpls	317-849-7300
KS	Hall-Mark Electronics Lenexa	913-888-4747

MD	Hall-Mark Electronics Columbia	301-988-9800
MD	Pioneer Electronics Gaithersburg	301-921-0660
MA	Pioneer Electronics Lexington	617-861-9200
MA	Future Electronics Westborough	617-366-2400
MA	Gerber Electronics Norwood	617-769-6000
MA	Hall-Mark Elects Woburn	617-935-9777
MI	Pioneer Electronics Livonia	313-525-1800
MN	Hall-Mark Electronics Bloomington	612-854-3223
MN	Pioneer Electronics Minnetonka	612-935-5444
MN	Merit Elect Mnpls	612-546-5383
MO	Hall-Mark Electronics Earth City	314-291-5350
NJ	Pioneer Electronics Pine Brook	201-227-1262
NJ	Hall-Mark Elect Mt Laurel	609-235-1900
NJ	Hall-Mark Elect Fairfield	201-575-4415
NM	Bell Industries Albuquerque	505-292-2700
NY	Pioneer Electronics Vestal	607-748-8211
NY	Pioneer Electronics Woodbury	516-921-8700
NY	Pioneer Electronics Fairport	516-381-7070
NY	Hall-Mark Elect Ronkonkoma	516-737-0600
NY	Horizons Elect Farmingdale	516-694-2500
NC	Hall-Mark Electronics Raleigh	919-872-0712
NC	Pioneer Electronics Charlotte	704-527-8188
OH	Pioneer Electronics Cleveland	216-587-3600
OH	Pioneer Electronics Dayton	513-236-9900
OH	Hall-Mark Elect Worthington	614-888-3313
OH	Hall-Mark Elect Solon	216-349-4632
OK	Hall-Mark Electronics Tulsa	918-665-3200
OR	Bell Industries Lake Oswego	503-241-4115
PA	Pioneer Electronics Pittsbrgh	412-782-2300
PA	Pioneer Electronics Horsham	215-674-4000
TX	Hall-Mark Electronics Austin	212-258-8848
TX	Hall-Mark Electronics Dallas	214-341-1147
TX	Hall-Mark Electronics Houston	713-781-6100
TX	Pioneer Electronics Houston	713-988-5555
TX	Pioneer Elect Dallas	214-386-7300
UT	Bell Industries SLC	801-972-6969
UT	Anthem Elect SLC	801-973-8555
WA	Anthem Elect Redmond	206-881-0850
WA	Bell Industries Bellevue	206-747-1515
WI	Hall-Mark Electronics New Berlin	414-797-7844
FR	Intek Elect Ltd Vancouver BC	604-324-6831
FR	Future Elect Ottawa ON	613-820-8313
FR	Future Elect Downsview ON	416-638-4771
FR	Future Elect Pte Claire PQ	514-694-7710
FR	Future Elect Vancouver BC	604-438-5545
FR	Future Elect Calgary AB	403-259-6408

PRECISION PAPER TUBE CO		
1033 S NOEL AVE WHEELING		
IL 60090		312-537-4250
R HATTON JR EMP 250 ENG 6 \$5,000-\$10,000K		
CT	Pettigrew & Co West Hartford	203-233-8533
FL	S Hatton Gulf Port	813-345-2790
IN	J Berger Indpls	317-357-1494
KS	TMR Materials Lenexa	913-888-2606
MA	R S Pettigrew & Co W Newton	969-5770
OH	Buckeye Bobbin & Mfg Div Westlake	216-871-9020
FR	Anbak Sales Canada Ltd Cookesville ON	602-625-1064
FR	Anbak Sales Can Ltd Dorval PQ	514-636-8515

PRECISION RESISTIVE PRODUCTS INC		
BOX 189 HWY 61 S MEDIAPOLIS		
IA 52637 TWX 510-100-8039		319-394-9131
EMP 30 ENG 4 \$1,000-\$2,500K		
AL	Reynolds & Assoc Huntsville	305-259-7000
AZ	Williams Assoc Scottsdale	602-947-4297
AR	Campion Sales Co Sherwood	501-834-2537
CA	Frauman Assoc Los Altos	415-941-0660
CA	Impact Electronics Anaheim	714-533-1351
CA	KCE Co El Cajon	619-588-1198
CO	Williams Assoc Commerce City	303-289-5647
FL	Reynolds & Assoc Melbourne	305-259-7000
IL	Ellinger Sales Corp Cary	312-639-1850
IN	Valentine & Assoc Greenwood	317-888-2260
MA	Jesco Inc Lexington	617-863-1598
MI	Dem Elects Sales Warren	313-575-9444
MN	International Sales Co Mnpls	612-831-8423
NJ	Masin-Esco Inc Englewood Cliffs	201-569-8868
NM	Williams Assoc Albuquerque	505-255-1638
NY	C W Floring Assoc Poughkeepsie	914-471-2973
NY	Masin-Esco Inc Hauppauge	516-273-3500
NC	Reynolds & Assoc Raleigh	305-259-7000
TX	Campion Sales Co Rowlett	214-475-8313
UT	Williams Assoc SLC	801-485-6511
WA	W3 Assoc Seattle	206-285-0210

PRECISION RESISTOR CO 10601		
75TH ST N LARGO FL 33543		813-541-5771
A REID EMP 35 ENG 1 \$500-\$1,000K		

PRECISION SENSORS INC BOX		
509 S SEEMANS LA MILFORD		
CT 06460		203-877-2795
J LACROIX EMP 47 ENG 3 \$1,000-\$2,500K		

PRECISION TUBE CO INC CHURCH		
RD & WISSAHICKON AVE		
NORTH WALES PA 19454		
TXW 846439		215-699-5801
B ALEXANDER EMP 275 ENG 7 OVER \$10,000K		
CA	RMS Assoc Santa Ana	714-556-4155
CA	R Donahue Assoc Santa Clara	408-727-6694
FL	Hanson Assoc Melbourne	305-727-7474
TriTek, Inc Burlington		617-272-4550
MN	Xylem Co St Louis Pk	612-920-9626
MO	D S Sales St Peters	314-928-5135
NY	CDB Enterprises Huntington	516-692-5200
PA	Sunday-O'Brien Haddonfield	609-429-4013
VA	MD Applied Engrg Frederick	301-663-4202

DISTRIBUTORS		
CA	Electronic Resources Sunnyvale	408-745-1420
CA	Micro-mode Products El Cajon	619-449-3844
CA	Waltronics Sales Santa Clara	408-727-1200
FL	Microwave Components Inc Stuart	305-286-4455
MD	Resco Baltimore	301-823-0070
MD	Resco Wash Beltsville	301-937-9100

MA	Pacer Electronics Woburn	617-935-8330
NY	Compucon Distributors New Rochelle	914-576-2888
NY	Mill Spec Wire & Cable Freeport	516-546-5454
FR	Omniconnect Inc St Laurent PQ	514-335-2337

PREFERRED ELECTRONICS INC		
MAINLINE DR BOX 248 WESTFIELD		
MA 01086 TWX 955-339		413-568-2301
M ROSENBERG EMP 300 ENG 10 \$5,000-\$10,000K		
AZ	Preferred Electronics Tempe	602-829-0392
CA	Gagner-Toomey Assoc 1680 Civic Ctr Dr Santa Ana	617-376-2914

PREH ELECTRONICS INDUSTRIES INC		
5665 HOWARD ST NILES		
IL 60648		312-647-8338
G ZIB		

PREMAX PRODUCTS DIV CHISHOLM-RYDER		
CO INC HIGHLAND & COLLEGE AVES		
NIAGARA FALLS NY 14305		716-285-9186
A FINLEY EMP 150 ENG 15 UP TO \$100K		
AZ	Sheffer-Kahn Co Phoenix	602-257-9015
AR	Leo Barker Co N Little Rock	501-835-0978
CA	Carrelli/EMA Burlingame	415-342-4514
CA	DeAngelo Rothman & Co Cuiver City	213-827-2202
DC	S K Macdonald, Inc Washington	202-265-3938
KS	K & M Sales Co Shawnee Mission	913-262-1444
MD	S K Macdonald Inc Lisbon	301-924-5880
NJ	Willgold Elec Sales Corp East Orange	201-678-7700
OH	R O Olsen Co Cincinnati	513-574-7711
OR	J M Minthorne Co Portland	503-246-4556
PA	S K Macdonald Inc Philadelphia	215-545-1205

PREM MAGNETICS INC 3521		
N CHAPEL HILL RD MCHENRY		
IL 60050 TWX 910-642-3763		815-385-2700
D HERTEL EMP 170 ENG 6 \$5,000-\$10,000K		
ADV PG 499		

PREMIER METAL PRODUCTS CO		
381 CANAL PL BRONX NY 10451		212-993-9200
A BOZZA EMP 100 ENG 2 \$5,000-\$10,000K		
ADV PG 51		
AZ	CPS Assoc Phoenix	602-246-1097
CA	West Elctns Garden Grove	714-898-0120
CA	Silicon Valley Sales San Jose	408-286-7510
CO	AKI Enterprises Denver	303-388-4488
CT	Eagle Assoc East Haven	203-467-6542
FL	Adams & Assoc Lake Park	305-694-1543
GA	Adams & Assoc Marietta	404-973-0853
IL	Utronix Sales Inc Elmhurst	312-834-1101
MD	Eastern Instru Burtonsville	301-384-3500
MA	Eagle Assoc Needham	617-444-8446
MI	Electronic Sources Brighton	313-277-3598
MN	John E M Anderson Co Mnpls	612-823-6459
MO	Delltron Co St Louis	314-869-4779
NM	RML Assoc Rio Rancho	303-757-6654
NY	Sonkin Assoc Yonkers	914-968-8282
NY	Lewis Dunnigan Co Syracuse	315-446-5522
NY	Harris & Aldrich Sales New Hyde Park	516-488-2622
NC	Adams & Assoc Greensboro	919-272-6838
NC	Adams & Assoc Charlotte	704-552-7800
OH	Intech Inc Akron	216-239-2022
PA	Eastern Inst of Phila Bensalem	215-245-6660
TX	W Pat Fralia Co Bedford	817-267-3577
TX	W Pat Fralia Co Houston	713-772-1577
UT	PLS Assoc Midvale	801-566-0671
WA	Electronic Northwest Inc Redmond	206-883-1959

DISTRIBUTORS		
AL	Mock Electronics Huntsville	205-539-2401
AL	Southern Electronics Opelika	205-745-5298
AZ	Dalis Electronics Phoenix	602-275-2885
CA	Rose Electronics Burlingame	415-348-2740
CA	Quement Electronics San Jose	408-998-5900
CT	Midstate Electronics Middletown	203-347-5638
CT	Sager Electrical Sply Wallingford	203-265-4600
FL	Summit Electronics Dania	305-920-6253
FL	Electronic Equip Co Miami	305-871-3500
IL	GBL/Gould Elect Elk Grove Vlg	312-593-3220
IN	Graham Electronics Fort Wayne	219-423-3422
LA	Menard Electronics Baton Rouge	504-355-0323
MD	Empire Electronics Bethesda	301-656-3300
MD	Resco Baltimore	301-823-0070
MD	ASI Electronics Baltimore	301-265-5100
MA	Sager Electrical Sply Hingham	617-749-6700
MA	Greene-Shaw Co Newton	617-969-8900
MI	Purchase Radio Sply Ann Arbor	313-668-8696
MO	Walters Radio Supply Kansas City	816-531-7015
NJ	Garden State Ind Elec Cranford	201-272-6400
NJ	Federated Purchaser Kenilworth	201-272-0505
NJ	State Elect PTS Hanover	201-887-2550
NJ	Green Brook Elect Green Brook	201-968-3500
NY	Argil Elec Ltd New York	212-691-8111
NY	Martin Audio/Video Corp New York	212-541-5900
NY	Wise Components Port Chester	914-939-8600
NY	Yonkers Elec Supply Yonkers	914-969-6044
NY	H L Dalis Inc LIC	212-361-1100
NY	Davis Electronic Corp Hempstead	516-483-9200
NY	Peerless Radio Dist Lynbrook	212-523-3456
NY	Broadline Elec Dist Hauppauge	516-231-4100
NY	E E Taylor Co Albany	518-438-7811
NY	Summit Distributors Buffalo	716-884-3450
NY	Simcona Elect Corp Rochester	716-328-3230
NY	Masline Electronics Rochester	716-546-5373
NY	Summit Electronics Rochester	716-334-8110
NC	Southeastern Radio Raleigh	919-828-2311
OH	Rem Electronics Warren	814-453-5626
PA	Leff Electronics Braddock	412-271-7100
PA	Federated Electronics Allentown	215-437-4481
PA	Toner Cable Equipment Horsham	215-675-2053
PA	Philadelphia Electronics Phila	215-568-7400

PA West Chester Elec Sply	215-696-7500
West Chester	215-696-7500
PA Barbey Electronics Reading	215-376-6116
Edwards Electronics Warwick	401-732-3200
SC Wholesale Indus Elec Charleston	803-722-2634
TN Randolph Hale & Matthews	615-647-2325
Clarksville	615-647-2325
TN Randolph & Rice Nashville	615-255-5601
Randolph Rice & Williams	615-255-5601
Tullahoma	615-455-4531
TN Randolph & Parks Cookeville	615-526-6184
Summers Electric Farmers Branch	214-748-6533
TX Swico Inc Ft Worth	817-335-6521
TX Lenert Co Houston	713-225-1465
VA Arlington Electronics Arlington	703-524-2412
VA Radar Electric Co Seattle	206-282-2511

PREMIER METAL PRODUCTS CO
16641 ORANGE WAY FONTANA
CA 92335.....**714-829-3089**
M LIER EMP 25 ENG 2
ADV PG 51

For Sales Offices See Premier Metal Products
 Co New York Listings.

PREMIER MICROWAVE CORP
33 NEW BROAD ST PORT CHESTER
NY 10573 TWX 710-569-1609.....**914-939-8900**
J SIMMONDS EMP 45 ENG 5 \$5,000-\$10,000K

PRES-AIR-TROL CORP 1009
W BOSTON POST RD MAMARONECK
NY 10543 TWX 510-600-0212.....**914-698-2026**
G BASSIN EMP 9 ENG 2
NY Pres-Air-Trol Corp Toll Free.....**800-431-2625**

PRESIDENT INTL CORP 3028A SCOTT BLVD SANTA CLARA CA 95054 TWX 1561096 408-748-0900 A LEE EMP 300 ENG 50 OVER \$10,000K	
AL Southrep Adamsville	205-674-3056
CA Leddy Assoc Mtn View	415-969-6313
CA RF Electronics Costa Mesa	714-662-7464
FL R C Simon & Co Lighthouse Point	305-941-2757
IL Eagle Tech Sales Rolling Meadows	312-991-0700
KS Rep-Tronics Olathe	913-764-1079
MA D Taggart Assoc Canton	617-828-6064
CA C & H Technology Eden Prairie	612-944-5141
MO Doby Assoc Jackson	601-981-1138
MO Rep-Tronics St Louis	314-676-9816
NJ C & H Technology Montvale	201-573-8900
PA Pro-Mark Greensburg	412-832-3800
TX Southwest Elect Industries	214-690-9881
Dallas	214-690-9881

DISTRIBUTORS

IL OHM Electronics Palatine	312-359-5500
NJ Digitron Springfield	201-379-8016
WI Lake-View Elect Mequon	414-377-8250
FR Stetron Intl Inc Markham ON	416-475-6202

PRESIDIO COMPONENTS INC 7185 CONSTRUCTION CT SAN DIEGO CA 92121 TWX 310-371-6407 619-578-9390 J TAYLOR	
AZ Eltron Phoenix	602-266-2164
CA Select Electronics LA	714-739-8891
CA Meade/Advantage San Jose	408-748-1991
FL Micro Mktg Orlando	305-788-0886
MA Compatible Comps W Boylston	617-842-2022
MN Peterson Sls & Assoc Mnpls	612-884-3483
NY Mirel Chappaqua	914-238-4961
PA E & L Assoc Colmar	215-822-2510
TX Merino Sales Dallas	214-233-6002
TX EPEC Inc El Paso	915-593-8481
WA MARS Bellevue	206-747-3292

DISTRIBUTORS

MA Eastern States Comps Shrewsbury	617-842-2022
TX Central States Comps Richardson	214-644-2070

PRESSURE CONTROLS INC 406
CORTLAND ST BELLEVILLE
NJ 07109.....**201-751-5003**
P EMMANCO EMP 25 ENG 4

PRESTON SCIENTIFIC INC
805 E CERRITOS AVE ANAHEIM
CA 92805 TWX 65-5321.....**714-776-6400**
CA MCGUIRE EMP 70 ENG 5 \$2,500-\$5,000K
ADV PG 139

AL MOCO Huntsville	205-881-5968
AZ Williams Assoc Scottsdale	602-947-4297
CA PBC Assoc Santa Clara	408-727-7244
CA Elotec Systems Inc Laguna Hills	213-830-4856
CO Williams Assoc Commerce City	303-289-5647
CT Power Mark Avon	203-678-0123
FL Truex Assoc Orlando	305-859-2160
IN Coombs Assoc Arlington Hts	312-439-9810
IN Coombs Assoc Ft Wayne	219-747-7661
KS Technical Sales Assoc Olathe	913-829-2800
MD Riffe Assoc Clarksville	301-953-2811
MA RJC Assoc Falmouth	617-540-8832
MN Vikeland Sales St Paul	612-645-4647
MO Technical Sales Assoc Ferguson	314-725-5631
NJ Hansen/Hughes Franklin Lake	201-848-8900
NM Williams Assoc Albuquerque	505-255-1638
NC RADCO Winston Salem	919-722-9671
OH Hocker Assoc Dayton	513-253-3642
OR Scientific Devices NW Portland	503-292-6934
PA Stein Instrumentation Cheltenham	215-379-1990
TX Lear Assoc Richardson	214-231-5388
TX Lear Assoc Houston	713-488-7893
UT Williams Assoc Salt Lake City	801-485-6511
WA Scientific Devices NW Bellevue	206-747-5169
WI Coombs Assoc Milwaukee	414-351-6123
FR Mattos Tavares LDA Lisbon Port	61-62-61
FR Eléxox Verrières Le Buisson	930-28-80

FR Ziegler-Instruments Moenchenglbadach	0216680091
WGer	0216680091
FR Systron-Donner Warwickshire Eng	0925-35411
FR Nenimij BV Gravenhage The Hague	070-469-5009
FR Three G Elctns Milano Italy	544291
FR Marubun Corp Tokyo	03-662-8151
FR Max Meier Elek AG Zurich	01-491-21-21
FR Nenimij BV Antwerpen Belg	031.42.62.50
FR Infosystems Private Ltd	
Ahmedabad, India	79281
FR Ammo Tel-Aviv Israel	03-453-157
FR Shin Han Scientific Co	
Ltd Seoul Korea	744-9110
FR Tek Logic Pty Ltd Gallo	
Manor S Afr	011-802-4251
FR 3K Tre Konsulter AB Vaxholm	
Sweden	0764-301-75
FR Datatex Taiwan ROC	02/391-6894

PREVENT STATIC INC 1601
JOHN TIPTON BLVD PENNSAUKEN
NJ 08110.....**609-665-5595**
B CASSANO EMP 45 \$2,500-\$5,000K

PRIME COMPUTER INC PRIME PARK MS 15-26 NATICK MA 01760 TWX 710-383-6438 617-655-8000 EMP 6000 OVER \$10,000K	
AL Prime Computer Birmingham	205-883-2120
AZ Prime Computer Phoenix	602-264-4264
CA Prime Computer Woodland Hills	213-881-8433
CA Prime Computer San Francisco	415-434-4830
CO Prime Computer Englewood	303-773-1484
CT Prime Computer Stamford	203-357-9750
FL Prime Computer Winter Park	305-678-6929
GA Prime Computer Atlanta	404-252-8900
IL Prime Computer Oakbrook	312-920-6750
IN Prime Computer Carmel	317-844-7500
MD Prime Computer Rockville	301-251-0250
MA Prime Computer Framingham	617-872-4770
MI Prime Computer Troy	313-362-0050
MN Prime Computer Bloomington	612-854-5976
MO Prime Computer St Louis	314-576-0010
NJ Prime Computer Parsippany	201-654-6270
NM Prime Computer Albuquerque	505-266-5695
NY Prime Computer Albany	518-869-4311
NY Prime Computer New York	212-687-6670
NC Prime Computer Greensborough	919-292-0643
OH Prime Computer Middleburg Hts	216-243-4900
OR Prime Computer Portland	503-297-7624
PA Prime Computer Wayne	215-687-8030
TX Prime Computer Dallas	214-233-6091
UT Prime Computer SLC	
VA Prime Computer Williamsburg	804-827-9164
WA Prime Computer Bellevue	206-455-0774

PRIME POWER INC BOX 185
TWIN LAKES RD N BRANFORD
CT 06471 TWX 710-453-3092.....**203-481-5721**
EMP 45 ENG 5
CT Tri-Corn Assoc Washington.....**203-563-2241**

PRINCETON ELECTRONIC PRODUCTS INC
BOX 101 NORTH BRUNSWICK
NJ 08902 TWX 710-480-3832.....**201-297-4448**
S KRIEGER EMP 55 ENG 10 \$2,500-\$5,000K

PRINCO INSTRUMENTS INC 1020 INDUSTRIAL HWY SOUTHAMPTON PA 18966 215-355-1500 S CLAYTON EMP 70 ENG 5 \$2,500-\$5,000K	
AR Jordan/Marlar/Hale N Little Rock	501-224-1312
CA Measurquipment Inc Laguna Hills	714-859-3616
CA Tecsel San Francisco	415-786-2110
CO PCI Sales Inc Denver	303-337-2622
FL Paul A Quinn Assoc Tampa	813-254-5211
GA Automatic Controls Div Atlanta	404-266-0130
IL Murphy & Dickey Westchester	312-344-5660
LA Process Msmts & Monitors	
Baton Rouge	504-927-9415
MA Spang Controls Co Stoneham	617-438-7985
MI Barclay Ayers & Bertsch	
Grand Rapids	616-452-3251
MN C T Sales Inc Minneapolis	612-374-1241
MS Jordan/Marlar/Hale Meridian	601-485-3039
MO All Chemical Process Equip	
Corp Florissant	314-837-8811
NE Able Technical Expt Co Billings	406-656-3328
MT J M Haig Inc Omaha	402-334-8380
NJ James R Stover & Assoc	
Hasbrouck Hts	201-288-1524
NY O R Lawrence Co Syracuse	315-455-5587
NY O R Lawrence Co Buffalo	716-839-4422
NC Brown & Morrison Charlotte	704-554-8507
OH Myers & Henley Inc Cincinnati	513-772-8100
OK Electric Pneumatic Instr	
Inc Tulsa	918-834-8400
PA Jos M Walters Co Chester Springs	215-458-8070
TN Jordan/Marlar/Hale Memphis	901-452-7441
TX Applied Controls of TX Houston	713-467-7042
UT Ted R Brown & Assoc SLC	801-486-7241
VA Virginia Carolina Controls	
Richmond	804-320-6500
WA Crown Controls Lynnwood	206-775-7300
WV Cavalier Controls Charlestown	304-342-0385
FR Ontor Ltd Toronto ON	416-781-5286
FR Ontor Ltd Calgary AB	403-283-5909
FR Ontor Ltd Richmond BC	604-273-2982
FR Ontor Ltd Montreal PQ	514-489-8263

PRINTED CIRCUIT CORP 10 E MICRO DR WOBURN MA 01801 TWX 710-393-0172 617-935-9570 P HAMMAR EMP 300 ENG 10	
CA Emerging Technology Santa Clara	408-727-1771
DE Jack McCoy Inc Medford NJ	609-953-0770
GA New South Marketing Norcross	404-449-4140
IL Momak Sales Downers Grove	312-963-6400
IN Electronic Sales & Eng Indpls	317-849-4260
Electric Co Sales Mnpls	612-933-2594

NJ Winch Sales Assoc E Brunswick	201-828-4615
NY H C Johnson Agency Rochester	716-586-0777
OH Electro Sales Assoc Dayton	513-426-5551
TX Wessco Cypress	713-469-7814

PRINTED WIRING SYS DIV KINETIC
SYS CORP 11 MARYKNOLL DR
LOCKPORT IL 60441
TWX 910-638-2831.....**815-838-0052**
W MARTIN EMP 15 \$500-\$1,000K

PRINTEK INC 1517 TOWNLINE RD
BENTON HARBOR MI 49022
TWX 810 270 3112.....**616-925-3200**
S BARNETT EMP 85 ENG 20 \$5,000-\$10,000K
CA Printek Inc San Jose.....**408-275-1900**
IL Printek Inc Westmont.....**312-323-112**
MA Printek Inc Wellesley Hills.....**617-239-802**
MI Printek Inc West Bloomfield.....**313-851-5554**
NJ Printek Inc Medford.....**609-654-4777**

DISTRIBUTORS

AK Rep-Sac Anchorage	907-562-3204
AZ BFA Corp Scottsdale	602-994-5400
CA Leasing Ventures Oakland	415-638-1070
CA Royce Mktg Systems Orange	714-978-3535
CO BFA Corp Denver	303-777-8070
IL Peak Dist/Dytec Central	
Arlington Hts	312-394-3380
IL Romar Systems Inc Elk Grove Vlg	312-640-7555
IL Hallmark Corp Elmhurst	312-843-8953
KS Dytec/South Lenexa	913-888-0215
KS Inland Assoc Olathe	913-764-7977
KS Inland Computer Prods Lenexa	800-255-6420
LA Technical Concepts Corp Slidell	504-643-2231
MD Mesa Tech Corp Gaithersburg	301-948-4350
MD Mesa Technology Gaithersburg	301-948-4350
MI Dytec/North St Paul	612-645-5816
MO Dytec/South Maryland Hts	314-569-2990
NJ Automated Access Cherry Hill	609-677-7800
NM BFA Corp Albuquerque	505-292-1212
TX BFA Corp El Paso	915-994-5400
TX Technical Concepts Corp	
San Antonio	512-699-6345
UT BFA Corp SLC	801-466-6522
WA Rep-Sac Kirkland	206-821-8552
WA Rep-Sac Vancouver	206-695-2525
WI Peak Dist/Dytec Central	
Elm Grove	414-784-9686

PRINTRONIX INC BOX 19559-17500
CARTWRIGHT RD IRVINE CA 92713
TWX 910-595-2535.....**714-863-1900**
J CAMPANELLA EMP 2000 ENG 75 OVER \$10,000K

DISTRIBUTORS

AL Gentry Assoc Huntsville	205-837-0692
CA Group III Elect Redondo Bch	213-643-6997
CA Group III Elect Sunnyvale	408-747-1800
CO PAR Assoc Aurora	303-363-6636
CT S & S Elect Milford	203-878-6800
FL Gentry Assoc Orlando	305-859-7450
GA Gentry Assoc Roswell	404-998-2828
HI Business Automation Honolulu	808-538-7797
IL Dytec/Central Arlington Hts	312-394-3380
IL Peak Distributors Arlington Hts	312-255-0707
IN Dytec/Central Indpls	317-247-1316
KS Dytec/South Lenexa	913-888-0215
LA Gentry Assoc Gretna	504-367-3975
MD Mesa Inc Gaithersburg	301-948-4350
MA S & S Elect Lowell	617-458-4100
MI Lowry Computer Prods Brighton	313-229-7200
MN Dytec/North St Paul	612-645-5816
MO Dytec/South Maryland Hts	314-569-2990
NJ Logon Inc Hackensack	201-646-9222
NM PAR Assoc Albuquerque	505-292-8436
NY NACO Elctns N Syracuse	315-699-2651
NC Gentry Assoc Burlington	919-227-3639
OH Lowry Computer Prods Cleveland	216-398-9200
OK USData Assoc Tulsa	918-622-8740
OR Group III Elect Portland	503-684-1870
PA MESA Technology Corp Lionville	215-644-3100
SC Gentry Assoc Columbia	803-772-6788
TX USData Assoc Richardson	214-680-9700
UT PAR Assoc SLC	801-537-1900
VT S & S Elect So Burlington	802-863-3923
WA Group III Elect Bellevue	206-454-0150

PROBE MASTER INC 4898 RONSON CT
SAN DIEGO CA 92111.....**619-560-9676**

PROBE-RITE INC 2725 LAFAYETTE ST
SANTA CLARA CA 95050
TWX 910-338-0260.....**408-727-0100**
FR ARDEZZONE EMP 30 ENG 5 \$1,000-\$2,500K

PROCESS & INSTRUMENTS CORP
1943 BROADWAY BROOKLYN
NY 11207.....**718-452-8380**
J GREENSPAN EMP 15 ENG 3 \$100-\$250K

PRODUCTS FOR RESEARCH INC
88 HOLTEN ST DANVERS
MA 01923 TWX 94-0287.....**617-774-3250**
H MARTIN EMP 23 ENG 2 \$1,000-\$2,500K

PRODUCTION INDUSTRIES INC
12880 E PIERCE ST PACOIMA
CA 91331.....**818-896-0555**

PROGRAM DATA INC 16632 HALE AVE
IRVINE CA 92714
TWX 910-595-2640.....**714-660-0818**
B GOODMAN EMP 75 ENG 9 \$5,000-\$10,000K

PROGRAMMABLE DEVICES INC
155-X NEW BOSTON ST WOBURN
MA 01801.....**617-935-9530**
J PUSHNIAK EMP 6 ENG 1 \$250-\$500K

PROGRAMMED TEST SOURCES INC

9 BEAVER BROOK RD, BOX 617
LITTLETON MA 01460.....617-486-3008
ADV Pkg 203

PROJECTAPIX II 300 W 53 ST
NEW YORK NY 10019.....212-765-7869
B FISCHER EMP 12 ENG 2 \$500-\$1,000K

PROJECTS UNLIMITED INC

3680 WYSE RD DAYTON OH 45414
TWX 810-450-2523.....513-890-1918
G KIMPTON EMP 85 ENG 4 \$2,500-\$5,000K

AZ Williams Assoc Scottsdale.....602-947-4297
CA Cal Rep Glendale.....818-901-6015
CA Comtech Marketing San Jose.....408-365-7474
CO Williams & Assoc Commerce City.....303-289-5647
CT Northeast Reps Weston.....203-866-6030
FL R S Cushing Longboat Key.....813-383-1770
IL Richard Fisk Mktg Barrington.....312-381-0653
IA Enso Reps Davenport.....319-386-6600
KS Enso Reps Lenexa.....913-541-0481
MD Hodgins Assoc Glen Arm.....301-592-7047
MA Northeast Reps Hingham.....617-749-8700
MI Jal-Co Rochester.....313-656-0210
MN Northstar Components Mpls.....612-553-1888
MO Enso Reps Maryland Hts.....314-423-3935
NH Northeast Reps Nashua.....603-880-8199
NM Williams Assoc Albuquerque.....505-255-1638
NY HC Johnson Agencies Rochester.....716-586-0777
NC Dula Assoc Winston-Salem.....919-768-7166
OH J C Hofstetter Medina.....216-241-4880
OR Frank Jackson & Assoc Portland.....503-645-8511
PA Hodgins Assoc Wayne.....215-688-9056
TX Eagle Marketing Richardson.....214-238-5393
UT Williams Assoc SLC.....801-485-6511
WA Frank Jackson Redmond.....206-881-7277
FR D T Shaw Co Ltd Islington ON.....416-231-3494

DISTRIBUTORS

CA Marvac Elec Costa Mesa.....714-540-3281
CA Pyramid Elect Santa Clara.....408-727-9810
CO Waco Commerce City.....303-289-4743
FL A-A Electric Lakeland.....813-665-6941
GA A-A Electric Norcross.....404-449-8670
IL Nedco Power Pak Chicago.....312-286-5565
MA Hingham Bay Corp Hingham.....617-740-1900
MN K & H Electric Mpls.....612-553-1312
NJ Eastern Industrial W Long Branch.....201-544-0600
NJ McCoy Medford.....609-953-0770
NY Ray Baker Electronics Rochester.....716-586-9164
NC Kirkman Electronics
Winston-Salem.....919-722-9131
OH Electro Supply Dayton.....513-296-1010
TX Southwest Electronics Stafford.....713-491-4900
WI W Electronics Oconomowoc.....414-367-6003
FR D T Shaw Co Montreal PQ.....514-332-1163

PRO-LOG CORP 2411 GARDEN RD

MONTREY CA 93940
TWX 910-360-7082.....408-372-4593
H JAMES EMP 240 ENG 21 OVER \$10,000K

PROMAX-JOHNSTON ELECTRONIC CORP

500 E PACIFIC COAST HWY
SEAL BEACH 90740 TWX 244319.....213-594-4557
J MCKINSTRY EMP 60 ENG 5 \$2,500-\$5,000K

PROMETHEUS PRODUCTS INC

4545 CUSHING PKWY FREMONT
CA 94538.....415-490-2370
C FREDERICK EMP 75 ENG 14 \$5,000-\$10,000K

DISTRIBUTORS

CA Micro-D Santa Ana.....714-540-4781
CA Micro-D Hayward.....415-487-7803
CA Softsel Ingleswood.....800-645-7778
IL Micro-D Arlington Hts.....312-394-9705
IL Softsel Itasca.....800-645-7775
MD Micro-D Columbia.....391-964-5525
NJ Softsel Fairfield.....800-645-7779
TX Micro-D Dallas.....214-484-2455
FR Softsel Mississauga ON.....800-268-0460

PROTECH AUDIO CORP FLOWERFIELD

BLDG 1 ST JAMES NY 11780.....516-584-5855
W MURPHY EMP 10 ENG 3 \$500-\$1,000K

PROTEON INC 4 TECH CIRCLE

NATICK MA 01760.....617-655-3340
P LALLY EMP 80 ENG 20
CA Proteon Inc Long Beach.....213-428-2241
CA Proteon Inc San Mateo.....415-341-3693
CO Colorado Computer Cable
Co Englewood.....303-779-6049

DC Proteon Inc Washington.....703-425-8214
GA Proteon Inc Norcross.....404-662-1510
IL Proteon Inc Schaumburg.....312-303-1510
MO Proteon Inc St Louis.....314-394-9062
NY Proteon Inc Elmsford.....914-592-2122
TX Proteon Inc Dallas.....214-991-2188

DISTRIBUTORS

MA CE Datacomm N Attleboro.....617-695-4230
NY RG Engineering Rochester.....716-424-7492
TN Microsource Technologies Memphis.....901-767-8955
FR Lanpar Technologies Ottawa ON.....416-475-9123

PROTEUS INDUSTRIES INC

190 S WHISMAN RD MT VIEW
CA 94041.....415-964-4163

PROTO SYSTEMS 625 SIMS IND BLVD

ALPHARETTA GA 30201
TWX 469-432.....404-475-1330
R MCDANIELS EMP 300 ENG 17 OVER \$10,000K

PROTEK INC BOX 46512
CINCINNATI OH 45246.....513-874-5094

PSITECH 18368 BANDILIER CIR

FOUNTAIN VALLEY CA 92708.....714-964-7818
H BERKOWITS EMP 25 ENG 8 \$2,500-\$5,000K

PTC TRANSFORMERS RISING

SUN RD BOX 397 BORDENTOWN
NJ 08505 TWX 510-685-3643.....609-298-8200
C HARRISON EMP 29 ENG 2 \$500-\$1,000K

PTK DIV EMERSON ELEC CO

1173 LOS OLIVOS BOX 6128
LOS OSOS CA 93402
TWX 910-351-5802.....805-528-5858
W HAMARI EMP 130 ENG 11 \$2,500-\$5,000K

PULEO ELECTRONICS INC 39

HUTCHESON PL LYNNBROOK
NY 11563.....516-599-4875
F GRECA EMP 10 ENG 2

PULIZZI ENGINEERING INC

3260 S SUSAN ST SANTA ANA
CA 92704.....714-540-4229
M PULIZZI EMP 26 ENG 3

PULSAR PRODUCTS INC 2949

WHIPPLE RD UNION CITY
CA 94587 TWX 910-381-7018.....415-487-5400
H ASLIN EMP 29 ENG 2 \$1,000-\$2,500K

PULSE ENGINEERING SUB VARIAN

BOX 12235 SAN DIEGO CA 92112
TWX 910-335-1527.....619-268-2400
L LUNER EMP 350 ENG 20 OVER \$10,000K

CA Pulse Engrg Inc San Jose.....408-244-0951
CA Pulse Engineering Woodland Hills.....818-704-1151
FL Pulse Engineering Casselberry.....305-831-2782
MA Pulse Engineering Tyngsboro.....617-649-7384
MN Pulse Engineering Minnetonka.....612-933-7712
NY Pulse Engineering Syosset.....315-455-5808
NC Pulse Engineering Raleigh.....919-878-8018
OR Pulse Engineering Wilsonville.....503-682-7213
TX Pulse Engineering Austin.....512-451-5721
TX Pulse Engineering Richardson.....214-644-0575

PULSE INSTRUMENTS CO 1234

FRANCISCO TORRANCE CA 90502.....213-515-5330
R PERRY EMP 24 ENG 4

PURE AIRE CORP 8441 CANOGA AV

CANOGA PK CA 91304
TWX 194-924.....818-998-3876
M SYTELIFE EMP 80 ENG 6 \$2,500-\$5,000K

AZ Guerin Assoc Phoenix.....602-957-0672
CA McDonald Assoc Canoga Pk.....818-998-3488
CA Transpacific Technology
Palo Alto.....415-856-6608
FL Marketters Corp Clearwater.....813-443-4302
IN HRC Inc Kokomo.....317-459-0543
MO John Metz Co St Louis.....314-993-1993
NC Micro-Tech Assoc High Point.....919-889-5606
OR Semtec Hillsboro.....503-648-4970
PA Blason Entrps Haverford.....609-767-6733
TX Sprul Co Houston.....713-966-5736

PURE CARBON CO INC WELLSVILLE ST

ST MARYS PA 15857 TWX 91-4515.....814-781-1573
C ATKINS EMP 700 ENG 30 OVER \$10,000K

CA D L Tiemeyer Cypress.....714-891-7939
CT S G Betta Bristol.....203-589-5033
CA C L Dann Kennesaw.....404-426-6629
IL C B Chase East Peoria.....309-699-1935
IN W C Coldt Munster.....219-924-7000
MI L L Palumbo Pinckney.....313-878-9060
NY J D Henry Rock Hill.....914-796-3524
NY J C Stockten Webster.....716-671-3227
OK L Harvey Midwest City.....405-733-7644
TX E Rutenbar West Chester.....215-692-5395
TN D Rogers Memphis.....901-396-1312

PYCO INC 600 E LINCOLN HWY

PERNNEL PA 19047 TWX 83-4703.....215-757-3704
K DAY EMP 45 ENG 3 \$2,500-\$5,000K

AL Horton Inst Co Birmingham.....205-476-6808
CA Miners & Pisani Oakland.....415-763-4463
CA Measurand Instr San Juan.....714-661-5096
CO Capistrano.....303-771-9793
CO Douglas Scientific Englewood.....203-779-0740
CT Atlantic Process Systems
Danielson.....813-646-1487
FL AMJ Equipment Co Lakeland.....404-231-3131
GA Horton Instrument Atlanta.....312-446-2725
IL Nomad Engrg Northfield.....317-272-3006
IN Combustion Sys Co Plainfield.....913-287-9882
KS Derossett Co Kansas City.....313-288-5330
MI Forberg Scientific Troy.....612-937-8705
MN Guy Speaker Co Eden Prairie.....314-993-3499
MO Nomad Engrg St Louis.....716-381-1155
NY R L Stone Rochester.....704-376-8551
NC Metric Control Co Charlotte.....216-333-0077
OH Loesch Assoc Rocky River.....615-588-0045
TX Geo Paris Co Knoxville.....713-488-2333
TN Total Inst Co Houston.....206-524-5170
VA Fitzhugh Corp Midlothian.....304-768-7313
WA Northram Inc Seattle.....416-731-5460
WV Allied Controls Co Charleston.....416-731-5460
FR Thermalloy Thornhill ON

PYLE-NATIONAL CO 1334 N

KOSTNER AVE CHICAGO IL 60651
TWX 9102210335.....312-342-6300
M CARROCCIA EMP 750 ENG 28 OVER \$10,000K

AZ Hans Technical Assoc Phoenix.....602-893-0004
CA Buffa Co Downey.....213-923-4618
CA Wedemeyer Sales Concord.....408-733-9344
CO Nelligan Co Ingleswood.....303-761-2121
CT Livera Polk & Assoc Bethel.....203-748-4639

FL Pyle-Natl Clearwater.....813-796-7555
GA Mountain Electro Prods Norcross.....404-448-5594
IL Marks & Assoc Chicago.....312-879-0607
KS Thunderbird Tech Sls &
Svc Wichita.....316-684-3941
LA Aneson Assoc New Orleans.....504-183-6445
MA Component Tech Needham.....617-449-8490
MI Pyle-Natl Southfield.....313-642-3808
MN Teramatch Elctn Mktg
Bloomington.....612-854-2001
NJ Pyle-Natl Pennsauken.....609-663-5093
NY Pyle-Natl Syracuse.....315-487-5551
NY Pyle-Natl Smithtown.....516-265-5852
OH Pyle-Natl Cleveland.....216-621-6894
TX Pyle-Natl Dallas.....214-691-5364
WA Barrett-Squibb Assoc Redmond.....206-885-6991
FR Pyle-Natl Canada Ltd Mississauga
ON.....416-822-3710

DISTRIBUTORS

AZ Time Electronics Tempe.....602-967-2000
CA Time Electronics Torrance.....213-320-0880
CA Time Electronics Sunnyvale.....408-734-9888
CO Time Electronics Englewood.....303-850-7701
CT Time Electronics Cheshire.....203-271-3200
FL Time Electronics Ft Lauderdale.....305-974-4800
GA Electro-Air Atlanta.....404-351-3545
IN Universal Elec Marion.....317-873-5027
MD Time Electronics Columbia.....301-964-3090
MA Time Electronics Woburn.....617-935-8080
MI Madison Elec Detroit.....313-875-1560
MI Royalite Co Flint.....313-238-4641
MN Time Electronics Bloomington.....612-944-9192
MO Crescent/Elec Sply St Louis.....614-533-6161
MO Time Electronics St Louis.....314-391-6444
NM State Elec Farmington.....505-327-9871
NY Time Electronics Hauppauge.....516-273-0100
OH Milner Elec Cleveland.....216-361-0300
OH Richards Elec Sply Cinn.....513-242-8800
PA Erie Ind El Supply Erie.....814-455-8051
PA Time Electronics Broomall.....215-359-1200
TX Warren El Co Houston.....713-236-0971
TX Electro-Air/SW Dallas.....214-385-0566
TX Time Electronics Dallas.....214-385-0566
WA Electro-Air/NW Bellevue.....206-641-3640

PYLON-TEK CORP BOX 2308

LITTLETON MA 01460
TWX 710-347-0884.....617-456-8765
A MANNIX EMP 86 ENG 12 \$5,000-\$10,000K

PYRAMID MAGNETICS 21100

LASSEN ST CHATSWORTH CA 91311.....818-998-0825
J HENDERSON EMP 125 ENG 3 \$2,500-\$5,000K
MN Comstrand Inc Mpls.....612-788-9234

PYRAMID PLASTICS INC 220

W 5TH ST HOPE AR 71801.....501-777-5759
B SMITH EMP 35 \$500-\$1,000K

PYROFERRIC INTERNATIONAL INC

200 MADISON ST TOLEDO
IL 62468 TWX 910-663-0616.....217-849-3300
J HORNER EMP 50 ENG 4 \$1,000-\$2,500K

PYRONICS INC INDUSTRIAL

CONTROLS DIV 17700 MILES AVE
CLEVELAND OH 44128
TWX 980-472.....216-662-8800
R ZIMMERMAN EMP 17 ENG 3 \$500-\$1,000K

AL Gaines & Co Birmingham.....205-822-3010
CA A W McGowan Inc Hayward.....415-886-4181
CA Pyro Engrg Co Santa Fe Springs.....213-802-2463
CO Conley Equipment Co Denver.....303-296-0320
CT WH Barton Co Simsbury.....203-658-0678
IL Lake Combustion Villa Pk.....312-495-9110
IN Combustion Systems Camby.....317-856-7994
MA Industrial Htg Sply Sudbury.....617-872-1875
MI Mansfield Engelman Co Walled
Lake.....313-624-1330
MN Lindberg Process Equip Co Mpls.....612-881-7734
MO Automatic Heating Equip St Louis.....314-725-7470
NJ Gale Equipment Co Rochelle Pk.....201-843-1144
NY Advanced Burners & Controls
Co Orchard Park.....716-662-4134
NC Air & Energy Systems Charlotte.....704-536-2176
OH H E A T Inc Cincinnati.....513-591-3000
PA Abell Eng Paoli.....215-648-0700
RI MacGregor Assoc Bristol.....401-253-7250
TN United Pump & Controls
Chattanooga.....615-698-8511
TX Thermodyne Products Richardson.....214-231-8256
VA Virginia Tech Assoc Richmond.....804-266-9654
WA Northwest Pur & Plt Equip
Seattle.....206-324-6880
WI Pyro Matic Inc Wauwatosa.....414-453-1171

PYROTECTOR INC 333 LINCOLN ST

HINGHAM MA 02043
TWX 710-348-0163.....617-749-3466
J KIMBAL EMP 325 ENG 11 OVER \$10,000K

CA S Ferrero Castro Valley.....415-582-3123
TX P Terrell Houston.....713-643-5290

QA TECHNOLOGY CO INC 48

PORTSMOUTH AVE EXETER
NH 03833.....603-772-3450
M JENKINSON

Q-S PRODUCTS CO INC 3605

SW SNOQUALMIE ST SEATTLE
WA 98126.....206-937-5505
L THOMASSON EMP 7 ENG 1 \$100-\$250K

DISTRIBUTORS

FR B & H Equip Ltd Langley BC.....604-530-9764

Q-TECH CORP 2201 CARMELINA AVE LOS ANGELES CA 90064 TWX 696140.....	213-820-4921
S TONG EMP 100 ENG 5 \$5,000-\$10,000K	
AZ Western High Tech Mktg Inc Scottsdale.....	602-949-0873
CA Dura Sales Cupertino.....	408-255-2084
CA B Dreyer Northridge.....	213-993-0048
CO W H Howard Assoc Denver.....	303-426-3499
FL MTS Assoc Coral Springs.....	305-753-3830
IL Allied Component Repts Northbrook.....	312-438-6658
MA J-K Assoc Malden.....	617-321-2922
NJ Elitech Sales Paramus.....	201-967-1309
NJ F & M Technical Sales Glen Gardner.....	201-832-7216
NM Western High Tech Mktg Inc Albuquerque.....	505-884-2256
NY El Tach Sales.....	914-237-3751
VA Electron Sales Front Royal.....	703-635-7201

QUADRI CORP 1725 W 17 ST DRAWER 2H TEMPE AZ 85282 TWX 910-950-0111.....	602-894-2151
B SWEENEY EMP 75 ENG 8 \$2,500-\$5,000K	

QUADRAM CORP ONE QUADWAY NORCROSS GA 30093 TWX 810-766-4915.....	404-923-6666
T GOULD EMP 400 ENG 35	

QUALOGY INC 2241 LUNDY AVE SAN JOSE CA 95131 TWX 910-338-0249.....	408-946-5800
E CHURCHILL EMP 227 OVER \$10,000K	
CA Qualogy Inc Santa Clara.....	408-727-3163
NY Qualogy Inc Great Neck.....	516-482-6733

QUALIDYNE SYSTEMS INC 3055 DEL SOL BLVD SAN DIEGO CA 92154 TWX 709-029.....	619-575-1100
J LOUDEN EMP 285 ENG 12 OVER \$10,000K	

QUALITY COMPONENTS INC BOX 113 ST MARYS PA 15857.....	814-834-2817
J COSTANZO EMP 150 ENG 4	
CT R S Pettigrew & Co West Hartford.....	203-233-8533
IL Thos B Hunter Assoc Chicago.....	312-777-2500
NY Wadsworth Mfg Assoc Liverpool.....	315-652-2865

QUALITY THERMISTOR INC 2147 CENTURION PL BOISE ID 83705.....	208-377-3373
J MAHONEY EMP 35 ENG 2 \$1,000-\$2,500K	
AZ Arcorn Sales Scottsdale.....	602-947-5745
IN John F Kilfoil Co Ft Wayne.....	219-424-7719
KS Florence & Myer Inc Shawnee Mission.....	913-722-5210
MA Hatch Assoc Needham.....	617-444-3310
OH John F Kilfoil Co Cincinnati.....	513-791-6150

QUAM-NICHOLS CO 234 E MARQUETTE RD CHICAGO IL 60637 TWX 710-1676.....	312-488-5800
G JOHNS	

QUANTUM CORP BOX 7599 TRENTON NJ 08628 TWX 64-2228.....	609-883-9191
J PADDACK EMP 52 ENG 4 \$2,500-\$5,000K ADV PG 137	

CA Campbell & George Co 840 Mahler Rd Burlingame.....	415-697-2965
CA South Rep Laguna Hills.....	714-951-1084
CO Computech Marketing Englewood.....	303-773-3981
CT Berkshire Electronics Clinton.....	203-669-0752
IN Bromberg Assoc Ft Wayne.....	219-456-6010
KY O H Bromberg & Assoc Louisville.....	502-245-8916
MD Tyler Griffin Co Columbia.....	301-995-1215
MA Berkshire Electronics Hopkinton.....	617-435-9356
MO Hill & Co Creve Coeur.....	314-432-1136
NH Berkshire Electronics Gonic.....	603-335-1897
NY Canavan Scanlon Assoc Rochester.....	716-424-1830
NY Canavan Scanlon Assoc Syracuse.....	315-437-1271
OH O H Bromberg & Assoc Cincinnati.....	513-771-9333
OH Allied Enrtps Cleveland.....	216-779-0080
OH O H Bromberg & Assoc Dayton.....	513-434-8788
PA Allied Enrtps Murrysville.....	412-325-3200
PA Tyler Griffin Co Paoli.....	215-647-1550
TX Glidden Electro Equip Dallas.....	214-341-0610
TX Glidden Houston.....	713-681-1415

DISTRIBUTORS	
CA C-Temp Anaheim.....	714-630-8451
IN Pyromation Fort Wayne.....	219-484-2580
MN Raydot Kokato.....	612-286-2103
MN Schaefer Fan Co St Cloud.....	612-251-8696

QUANTUM DATA INC 455 KEHOE CAROL STREAM IL 60188 TWX 206 725.....	312-668-3301
EMP 30 ENG 5 \$1,000-\$2,500K	

QUANTRAD CORP 19900 S NORMANDIE AVE TORRANCE CA 90502 TWX 287384.....	213-538-9800
P HANNAN EMP 80 ENG 10	
CA Dentech Santa Clara.....	408-988-1799
CO Semitorf Colo Springs.....	303-593-7881
IL BEA Electro-optics Des Plaines.....	312-298-1420
NJ Non-Linear Devices Oakland.....	201-337-0666
OH Oteac Assoc Berea.....	216-243-7080

QUANTRONIX CORP 225 ENGINEERS RD SMITHTOWN NY 11788 TWX 96-7782.....	516-273-6900
W KERN EMP 200 ENG 35 OVER \$10,000K	
CA Quantronix Corp Santa Clara.....	408-727-9984

QUARTZITE PROCESSING INC 6 HOLYOKE ST MALDEN MA 02148.....	617-322-1380
P YANOFSKY EMP 12 \$500-\$1,000K	

QUAY CORP BOX 783-22 MERIDIAN RD EATONTOWN NJ 07724.....	201-542-7340
EMP 30 ENG 3 \$1,000-\$2,500K	

QUICK-SET INC 3650 WOODHEAD DR NORTHBROOK IL 60062 TWX 72-4362.....	312-498-0700
M STOLMAN EMP 100 ENG 3 \$2,500-\$5,000K	

QUME CORP SUB ITT 2350 QUME DR SAN JOSE CA 95131 TWX 910-338-0232.....	408-942-4000
EMP 2900 ENG 260 OVER \$10,000K	

Q V S INC 20 N 15TH ST EAST ORANGE NJ 07017.....	201-673-3996
F FOGLE EMP 40 ENG 3 \$500-\$1,000K	
TX H Troberman Universal City.....	512-658-6672

RACAL-DANA INSTRUMENTS INC 4 GOODYEAR, BOX C-19541 IRVINE CA 92713 TWX 910-595-1136.....	714-859-8999
L TENNEY EMP 150 ENG 20 OVER \$10,000K	
AZ Racial Dana Inst.....	602-252-5242
CA Racial Dana Inst.....	213-628-8825
CO Racial Dana Inst.....	303-592-1717
HI ESP Inc Honolulu.....	808-847-4300
IL Racial-Dana Inst Lombard.....	312-932-4922
MA Racial-Dana Instruments.....	617-890-7195
NJ Racial-Dana Instruments.....	609-853-1605
NY Racial-Dana Instruments.....	516-242-3454
NY Racial-Dana Instruments.....	315-475-1500
OK Data Mktg Assoc Tulsa.....	918-438-4911
OR Racial-Dana Instruments.....	503-241-8624
TX Data Mktg Assoc Dallas.....	214-661-0300
VA Racial-Dana Inst Annandale.....	703-941-0525
FR Interfax Quebec.....	514-336-0392

RACAL-MILGO INC 1601 N HARRISON PKWY SUNRISE 33323-2899 TWX 510-955-4145.....	305-475-1601
EMP 3000 ENG 130 OVER \$10,000K	

RACAL-REDAC INC LYBERTY WAY WESTFORD MA 01886 TWX 94-0470.....	617-692-4900
C GENSKE EMP 150 ENG 25 OVER \$10,000K	

DISTRIBUTORS	
CA Manco Santa Clara.....	408-496-6611
CA Manco Folsom.....	916-985-0370
FL SRI Largo.....	813-586-2871
IL Sector Engineering Elmhurst.....	312-530-7850
IN Sector Engineering Indpls.....	317-842-1120
MD EMA Rockville.....	301-881-5300
MA J & J Assoc Winchester.....	617-729-5770
MN Sector Engineering Bloomington.....	612-888-6920
NJ SDM Lodi.....	201-368-0123
NY SDM Rochester.....	716-247-8770
CA EMA Plymouth Meeting.....	215-828-7400
WI Sector Engineering Milwaukee.....	414-352-8280

RACAL-VADIC INC 1525 MCCARTHY BLVD MILPITAS CA 95035 TWX 62782187.....	408-946-2227
M BAILEY EMP 600 OVER \$10,000K	
CA Racial-Vadic Irvine.....	714-476-0964
CO Racial-Vadic Englewood.....	303-796-9221
IL Racial-Vadic Downers Grove.....	312-964-3366
MD Racial-Vadic Lanham.....	301-459-7430
MA Racial-Vadic Wakefield.....	617-245-8790
NJ Racial-Vadic Fort Lee.....	201-585-7930
TX Racial-Vadic Arlington.....	817-277-2246

RACON INC 12628 INTERURBAN AVE S SEATTLE WA 98168 TWX 32-1202.....	206-241-1110
EMP 100 ENG 8	
CA Gibbs-Warren Assoc Santa Clara.....	408-988-7762
CA Seevind Inc Huntington Beach.....	714-898-6100
FL Coaxial Sys Assoc Tequesta.....	305-746-6626
GA Machnik & Assoc Snellville.....	404-972-4814
IL Protection Sys Consult Palatine.....	800-621-5282
KS Pacer Sales Inc Lenexa.....	913-541-1411
MA G L Coulter Sales Co New Bedford.....	617-997-2196
NJ Electro-Marketing Westfield.....	201-232-7531
NC ECR Inc Charlotte.....	704-372-5763
TX Techno Assoc Dallas.....	214-357-9212
VA MJR Assoc Arlington.....	703-379-0899

RADIAL CONTROLS 2555 E 55TH PL INDIANAPOLIS IN 46220.....	317-255-2796
W NICELY EMP 25 ENG 2 \$250-\$500K	

RADIATION DYNAMICS INC 316 S SERVICE RD MELVILLE NY 11747 TWX 6852275.....	516-752-1660
R BECKER EMP 185 ENG 25 \$5,000-\$10,000K	

RADIATION SYSTEMS INC 1501 MORAN RD STERLING VA 22170 TWX 89-9156.....	703-450-5680
R DENTON JR EMP 300 ENG 20 OVER \$10,000K	
CA J Schneider Jr Sacramento.....	916-961-3466
CA C Empey Saratoga.....	408-741-0265
MA C Ruckstuhl Grotton.....	617-448-2200
NJ D Munnelly Freehold.....	201-462-0053

RADIO-ELECTRONICS MAGAZINE 200 PARK AVE S NEW YORK NY 10003.....	212-777-6400
EMP 25 ENG 4 \$5,000-\$10,000K ADV PG 45	
CA Radio-Electronics Sherman Oaks.....	213-986-2001
IL Ralph Bergen Co Northfield.....	312-446-1444
NY S Levitan Little Neck.....	212-428-6037

RADIO FREQUENCY CO 150 DOVER RD BOX 158 MILLIS MA 02054.....	617-762-4900
C CABAN EMP 35 ENG 5 \$1,000-\$2,500K	

RADIO-RESEARCH INSTRUMENT CO INC 2 LAKE AVE EXT DANBURY CT 06811 TWX 962 444.....	203-792-6666
EMP 20 \$1,000-\$2,500K ADV PG 377	

RADIO SWITCH CORP 64 S MAIN ST MARLBORO NJ 07746.....	201-462-6100
J BERNARD ENG 1	

RADIO TELEVISION PRODUCTS CORP 2702 WASHINGTON AVE N DOUGLAS AZ 85607.....	602-364-4438
W MCGAW EMP 125 ENG 4 \$1,000-\$2,500K	

RAE CORP 5801 W ELM ST MCHENRY IL 60050 TWX 910-642-3792.....	815-385-3500
D SMITH EMP 200 ENG 4 \$5,000-\$10,000K	
CA Tri-Tech Engr & Sales Birmingham.....	205-991-3799
CA Sierra Industrial Engr LA.....	213-624-3123
CA Motion Control North San Jose.....	408-997-0544
CO Integrated Motion Systems Littleton.....	303-794-7973
CT M L Assoc Old Saybrook.....	203-388-9718
CT M L Assoc Bristol.....	203-589-2856
FL Tri-Tech Engr & Sales Land O Lakes.....	813-996-4347
GA Tri-Tech Engr & Sales Atlanta.....	404-457-5561
IL Power Products Co Wood Dale.....	312-595-1142
IN Power Products Co Ft Wayne.....	219-483-2820
IA I L Davidson Co Des Moines.....	515-223-6306
MA M L Assoc Wayland.....	617-358-5540
MI Xanthus Inc Troy.....	313-528-2000
MN Applied Motion Technology Cottage Grove.....	612-459-0800
MO I L Davidson Co Kansas City.....	816-333-2044
MO I L Davidson Co St Louis.....	314-383-1360
NJ Willgold Sales Corp East Orange.....	201-678-7700
NC B J Shepard & Co Charlotte.....	704-588-0693
OH Industrial Motor & Control Mentor.....	216-951-5703
OH J C Hofstetter Co Dayton.....	513-296-1010
PA Kiley Electric Co Exton.....	215-363-8550
PA J C Hofstetter Co Hickory.....	412-356-2305
TX Automatic Systems Inc Dallas.....	214-688-1810
FR PTM Industries Downsview ON.....	416-736-4972

R A F ELECTRONIC HARDWARE INC 95 SILVERMINE RD SEYMOUR CT 06483.....	203-888-2133
J BALKO EMP 120 ENG 3	

RAF MAGNETICS 200 LEXINGTON BOX 2949 DELAND FL 32723-2949.....	904-736-1698
R NEEDHAM EMP 140 ENG 3 \$2,500-\$5,000K	
FL CBC Electronics Coral Springs.....	305-755-1111
GA Conley & Assoc Atlanta.....	404-447-6992

RAGEN CORP 9 PORETE AVE NORTH ARLINGTON NJ 07032 TWX 710-995-4752.....	201-997-1000
C WEACHOCK EMP 350 ENG 40 OVER \$10,000K	

RAINBOW WIRE CORP BOX 251 MADISON NJ 07940.....	201-887-2550
J NOONAN EMP 6 UP TO \$100K	

DISTRIBUTORS	
NJ State Elec Parts Hanover.....	201-887-2550

RAMAPO INSTRUMENT DIV HERSEY PRODS INC OLD VALLEY FALLS RD SPARTANBURG SC 29305.....	803-578-1005
G ANDERSON EMP 27 ENG 3	

AZ Wisco Equip Co Phoenix.....	243-4361
CA Industrial Mgmt & Cont Alamo.....	837-2000
CA FLW Inc Costa Mesa.....	751-7512
FL Blue Ribbon Winter Park.....	647-4258
GA Freeman Equip Co Atlanta.....	938-1227
IL Memeco Sales & Svc Elk Grove.....	228-9555
LA Engineered Prods Inc Baton Rouge.....	272-6955
MD MRT Co Inc Baltimore.....	583-3329
MA Andrus-Perkin Corp Natick.....	653-3919
MI Coon-DeVisser Co Royal Oak.....	399-6000
MN Controls & Meters Mpls.....	944-3666
MO Ozark Elctrn Mktg St Louis.....	423-7200
NE H G Klug CO Omaha.....	397-8910
NJ Jas R Stover & Assoc Hasbrouck Hts.....	288-1524

NY MTC Enterprizes Pittsford.....	475-1538
NC Carolina Controls Co Charlotte.....	588-3040
OH Jackson Assoc Harrison.....	367-2638
PA Process Engng Co Pittsburgh.....	561-5050
UT Branom Instrument Seattle.....	762-6050
UT Process Instr. & Cont S L C.....	262-5568
FR Cancoppas Ltd Oakville.....	845-4841

RAM METER INC 1100 HILTON RD FERNDALE MI 48220.....	313-398-6767
G MATTEON EMP 43 ENG 3 \$2,500-\$5,000K	
IL PVA Co La Grange.....	312-579-9300

RAMSAY ENGINEERING CO 3361 E MIRALOMA AVE ANAHEIM CA 92806.....	714-524-8855
S RAMSAY	

RAMSEY CONTROLS INC 333 RTE 17 MAHWAH NJ 07430 TWX 642446.....	201-529-4400
C SASTRY EMP 100 ENG 8 \$5,000-\$10,000K	

RAMSEY PISTON RING DIV TRW
AUTOMOTIVE PRODS INC
1233 MANCHESTER RD MANCHESTER
MO 63011.....314-394-3700
R MARSHALL EMP 625 ENG 28

RANK PRECISION INDUSTRIES INC
411 JARVIS AVE DES PLAINES
IL 60018 TWX 72-6441.....312-297-7720
J REINERT EMP 59 ENG 12 OVER \$10,000K

DISTRIBUTORS

CA J Wilkinson San Jose.....415-581-2120
CA Don Richetts Co San Gabriel.....213-283-8515
NJ Clarkson & Foreman Bound Brook.....201-469-2884
NY R G Loewenguth Co Rochester.....716-458-4366

RANSCO INDUSTRIES INC 1400
E STATHAM PKWY OXNARD
CA 93033 TWX 6-59235.....805-487-7777
L BENJAMIN EMP 280 ENG 11 OVER \$10,000K

CA Ransco Industries Santa Clara.....408-496-0266
FL Ransco Industries Inc Cary.....919-489-5508
IL Ransco Industries Wheeling.....312-459-7400
MA Ransco Industries Medway.....617-533-4915
TX Ransco Industries Plano.....214-881-9093

RANTEC DIV EMERSON ELECTRIC CO
9401 OSO AVE CHATSWORTH
CA 91311 TWX 910-493-1247.....818-885-8223
B MCCAMPBELL EMP 200 ENG 20 OVER \$10,000K

RAPID ELECTRIC CO INC GRAYSBRIDGE
RD BROOKFIELD CT 06804.....800-332-1111
R TEDESCHI EMP 235 ENG 16 OVER \$10,000K

CO Baker Electric Denver.....303-222-4751
MA Assoc Elec Springfield.....413-781-1053
MN Kim Controls St Paul.....612-646-7235
NY Crest Assoc Massapequa.....516-799-8053
NC Industrial Drives & Controls
Charlotte.....704-535-5414
PA Shop Materials Co Bethel Park.....412-561-8211
TX Industrial Dr Mntce Houston.....713-681-6942
WI Power Transmission Prods
Milwaukee.....414-475-6400

RAPIDSYN DIV API 3233 ROYMAR RD
OCEANSIDE CA 92054
TWX 18-1196.....619-439-7500
EMP 150 ENG 5 \$5,000-\$10,000K

CA J W Wilhoit Los Altos.....415-961-3660
CA Techrep Lomita.....213-539-9070
CT M L Assoc Old Saybrook.....203-388-9718
IL JHS Assoc Elgin.....312-741-9070
MA M L Assoc Marlboro.....617-485-6190
MN Gaffney Sales Osseo.....612-425-5484
NJ R E Winter Assoc Cherry Hill.....609-429-0696
NY Bradley Assoc Port Washington.....516-883-7333
OH Dorsey-Alexander Cincinnati.....513-221-7518
OR R T S Wilsonville.....503-638-5670
TX Industrial Controls El Dorado.....501-862-2051
WA RTS Vashon.....206-455-2778

DISTRIBUTORS

CA Anaheim Automation Anaheim.....714-992-6990
IL Dreisilker Motors Glen Ellyn.....312-469-7510

RAPID MANUFACTURING 1789 N CASE
ORANGE CA 92665.....714-974-2432
J DUTTON EMP 45 \$1,000-\$2,500K

RATELCO INC POWER SYSTEMS DIV
1260 MERCER ST SEATTLE
WA 98109 TWX 888729.....206-624-7770
S FOSTER EMP 125 ENG 7 \$5,000-\$10,000K

AL Spader & Assoc Birmingham.....205-879-1366
AZ W Gorman Phoenix.....602-956-9820
CA Geo E Honn Co Emeryville.....415-653-0737
CO Hamilton Assoc Denver.....303-629-0901
FL Rowe Eng Sales Maitland.....305-834-2700
GA Spader & Assoc Decatur.....404-296-3024
HI A J Vivas Co Honolulu.....536-8301
IL McBud Inc Addison.....312-628-8570
IA Cahoon Sales Iowa City.....319-351-4989
KS Power Equip Sales Co KC.....913-384-3848
LA Communication Sales Lafayette.....318-984-3943
MN Klass Co Mnpls.....612-338-8427
MO R R Kinyon Co St Louis.....314-993-4348
NE Cahoon Sales Elkhorn.....402-289-4200
NM F W Gorman Albuquerque.....505-247-1596
NY J & M Assoc Grand Island.....716-773-3151
NY Designed Power Uniondale.....201-783-4647
NC Glenn & Larson of Carolina
Charlotte.....704-377-1314
OH Ver Hill Assoc Cincinnati.....513-521-3360
OK And Power Sales Okla City.....405-842-8007
OR United Sales Assoc Tigard.....503-620-6960
PA Electrical Distb Conshohocken.....215-825-6450
TN Spader & Assoc Knoxville.....615-990-0501
TX E B Robertson Dallas.....214-942-2711
VA Electrical Dist Locust Grove.....703-972-7767
WA Reliable Power Bellevue.....206-820-2741
FR M R Franceschini Inc Santurce PR.....809-723-4511

RAULAND-BORG CORP 3535
W ADDISON ST CHICAGO IL 60618
TWX 910-221-1290.....312-267-1300
W ZOPHY EMP 250 ENG 30 OVER \$10,000K

CA H Plaisier Midway City.....716-898-2499
IL P M Flannery Orland Park.....312-349-3802
KS D Weeden Olathe.....913-764-6136
KY W Lewis Louisville.....502-491-4273
NJ J Hoover Cherry Hill.....609-667-1297
TX H DeVaney Dickinson.....713-337-1040
WA R Blunt Redmond.....206-883-3539
FR Rauland-Borg Can Inc Mississauga,
ON.....416-821-2225

RAVEN INDUSTRIES INC 205
E 6TH ST SIOUX FALLS SD 57117
TWX 910-660-0308.....605-336-2750
M WIEMAN EMP 740 ENG 50 OVER \$10,000K

RAWAY BEARING CORP 8 MELNICK RD
MONSEY NY 10952.....914-352-4944
R BASKIN EMP 5 \$500-\$1,000K

RAWN CO INC BOX 9 SPOONER
WI 54801.....715-635-8711
H ACKERSON EMP 23 \$1,000-\$2,500K

CA Lessing Assoc Newhall.....805-254-0274
CA Al Osheski & Assoc Campbell.....408-378-6003
CO REK Electronics Englewood.....303-789-9306
FL Hutto Hawkins Perego Maitland.....305-831-2474
GA Henry W Phillips Co Roswell.....404-992-3070
HI Hawaii Elctn Sales Co Honolulu.....845-8207
IL Restronics Westmont.....312-960-1205
IN Jim Church Mktg Bloomington.....812-334-0383
MA W A Hendrickson No Scluate.....617-454-0652
MI Inter-Comm Grand Blanc.....313-695-0666
MO Microtronics Inc St Charles.....314-946-8500
NY Keller & Assoc Lindenhurst.....516-226-7733
NY Liverpool.....316-622-3211
OH Reptronics St Marys.....419-394-4724
PA Par Nel Sales Co Langhorne.....215-750-0380
TX J-J Sales Co Dallas.....214-328-9739
WA Seatex Lynwood.....206-462-1382

RAYCHEM CORP 300 CONSTITUTION DR
MENLO PARK CA 94025
TWX 910-373-1728.....415-361-3333
B CHAD EMP 8000 ENG 400 OVER \$10,000K

RAYCOM SYSTEMS INC 6395
GUNPARK DR BOULDER CO 80301
TWX 704100.....303-530-1620
M LEVESQUE EMP 35 ENG 12
CA K Holt Rio del Mar.....408-688-6763
CA L Haffey San Pedro.....213-519-8102
MA E A Peters Arlington.....617-641-2345

RAYDYNE/AKO CORP 12819
W SILVER SPRING RD BUTLER
WI 53007 TWX 910-262-3182.....414-781-8360
J KOVOTH EMP 50 ENG 10

RAYMOND ENGINEERING INC
217 SMITH ST MIDDLETOWN
CT 06457 TWX 710-428-7944.....203-632-1000
EMP 600 ENG 90 OVER \$10,000K

RAYOVAC CORP 601 RAYOVAC DR
MADISON WI 53711
TWX 910-286-2730.....608-275-3340
M UNDERWOOD EMP 1900 ENG 80 OVER \$10,000K

RAYTHEON CO LASER PRODS DEPT
FOURTH AVE BURLINGTON
MA 01803.....617-272-6400

RAYTHEON MARINE CO 676
ISLAND POND RD MANCHESTER
NH 03103 TWX 94-3459.....603-668-1600
C PETERS EMP 800 ENG 50

CA Raytheon Co Torrance.....213-533-5559
FL Raytheon Co Tampa.....813-877-9418
LA Raytheon Co New Orleans.....504-835-6491
NY Raytheon Co Staten Island.....212-720-6800
TX Raytheon Co Houston.....713-941-2700
WA Raytheon Co Seattle.....206-285-6843

RAYTHEON OCEAN SYSTEMS CO
RISHO AVE WESTMINSTER PK
EAST PROVIDENCE RI 02914
TWX 6814078.....401-438-1780
P HUGHES EMP 120 ENG 32 \$5,000-\$10,000K
CA Heckerman Corp Inglewood.....213-678-2264
FL Tool-Tronics Hydrospace
Zephyrhills.....813-782-7177

MA Stewart Engr Duxbury.....617-934-0719
TX C A Richards Assoc Houston.....713-631-7417
FR T Thompson Ltd West Vancouver BC.....604-962-3201

RAYTHEON SEMICONDUCTOR DIV
350 ELLIS ST MOUNTAIN VIEW
CA 94043 TWX 910-379-6481.....415-968-9211
R GOEDJEN EMP 1000 ENG 150 OVER \$10,000K

AL Macro Mktg Assoc Huntsville.....205-883-9630
AZ Semper Fi Sales Scottsdale.....602-991-4801
CA Raytheon Irvine.....714-833-9042
CA Quadrep Inc San Jose.....408-946-0040
CO Simpson Assoc Littleton.....303-794-8381
FL Hutto, Hawkins, Perego
Clearwater.....813-797-4447

IL Carlson Elctn Sales Elk
Grove Vlg.....312-956-8240
IN J & W Sales Indpls.....317-842-3740
IA Carlson Elctn Sales Cedar Rapids.....319-377-6341
MD Arbotek Assoc Ellicott.....301-461-1323
MA Dynasel Assoc Waltham.....617-890-6777
MI Lowell-Wendt Mktg Livonia
Electronic Innovators Eden
Prairie.....612-941-0880

NM BFA Corp Albuquerque.....505-292-1212
NY ERA Inc Commack.....516-534-0510
NY PI/Tronics Syracuse.....315-455-7346
NC CSR Elctns Raleigh.....919-847-8434
OH Thompson & Assoc Dayton.....513-435-7733
OR Crown Elct Sales Tualatin.....503-638-7561
PA Monteiro Assoc King of Prussia.....215-265-0634
SC CSR Elctns Columbia.....803-781-1090
TX Logic I Richardson.....214-234-0765
UT Simpson Assoc Midvale.....801-566-3691
WA Crown Elct Sales Bellevue.....206-643-8100
WI Carlson Elctn Sales Milwaukee.....414-476-2790

RAYTHEON TAG SEMICONDUCTORS LTD
43 THIRD AVE BURLINGTON
MA 01803 TWX 710-324-6568.....617-272-3704
AZ Relcom Phoenix.....602-893-1209
CA Relcom Agoura Hills.....818-991-4221
CA Kottmeier Assoc Campbell.....408-866-5153
FL Electrocraft Largo.....813-530-4749
IL Carlson Elctn Sales Elk
Grove Vlg.....312-956-8240
IN J & W Sales Indpls.....317-842-3740
IA Carlson Elctn Sales Cedar Rapids.....319-377-6341
MA Stone Comp Sales Framingham.....617-875-3266
MN Merrill Franklin Co Bloomington.....612-854-9446
NJ Emtec Sales East Hanover.....201-428-0600
NY PI/Tronics Syracuse.....315-455-7346
NY Emtec Sales Melville.....516-752-1630
OH Arthur H Baier Cleveland.....214-661-6161
PA Knowles Assoc Feasterville.....215-322-7100
TX Design Marketing Irving.....214-607-0611
WI Carlson Elctn Sales Milwaukee.....414-476-2790

DISTRIBUTORS

NY ACI Electronics Plainview.....516-293-6630
PA ECI Inc York.....717-843-8971

DISTRIBUTORS

NH R P Urban & Assoc Grand Rapids.....616-245-0511

RCA BROADCAST SYSTEMS BOX 900
GILLSBORO NJ 08026
TWX 831-7110.....609-435-2800
B BLACK
CA J Castenada Studio City.....213-468-4083
CO R Blauvelt Carbondale.....303-963-1293
IL J Kelly Atlanta.....404-452-2340

ID
IN J Ayers Indpls.....317-267-6395
MN D G Schulte Mnpls.....612-920-6395
NJ R Varda/D Mewhinney Lyndhurst.....201-460-5580
PA C Koriowchak McMurray.....412-941-5570
RI P Taylor Warwick.....401-738-7722
TX B Laughlin Dallas.....214-931-1683
WA M Ellison Seattle.....206-285-2375
WI R Yokes Grafton.....414-377-8430

RCA DISTR & SPECIAL PRODS DIV
2000 CLEMENTS BRIDGE RD
DEPTFORD NJ 08096.....609-541-3636
H CRATON

RCA GOVERNMENT SYSTEMS DIV
RTE 38 CHERRY HILL NJ 08358
TWX 609-235-7125.....609-338-3000
R STEVENS EMP 10,000 ENG 2,000 OVER \$10,000K

AL F Hazel Huntsville.....205-533-5200
CA C Cassidy LA.....213-641-9511
CA J Myers Burlington.....617-272-2258
MA M L Ribe Red Bank.....201-741-8888
OH M Carpenter Dayton.....513-253-1133
VA P Martin Arlington.....703-558-4223

RCA SERVICE CO-AUTOMATED
BUSINESS COMMUN SVCS
BLDG 204-2 RTE 38 CHERRY HILL
NJ 08358 TWX 710-892-0905.....609-338-4343
L A CLEARY EMP 700 OVER \$10,000K

CA RCA Service Montebello.....213-728-7473
CA RCA Service Co St San Fran.....415-853-5164
GA RCA Service Tucker.....404-934-9333
IL RCA Service Bensenville.....617-251-4186
MA RCA Service North Chelmsford.....609-234-8900
NY RCA Service Mt Laurel.....201-668-1224
TX RCA Service South Plainfield.....817-640-0900

RCA SOLID STATE DIV RTE 202
SOMERVILLE NJ 08876
TWX 710-480-9333.....201-685-6000
M MORRIS OVER \$10,000K

AL RCA Corp Huntsville.....205-533-5200
AZ RCA Corp Scottsdale.....602-947-7235
CA RCA Corp Sherman Oaks.....213-468-4200
CA RCA Corp Santa Clara.....408-748-0933
CO RCA Corp Englewood.....303-740-8441
FL RCA Corp Lake Park.....305-626-6350
GA RCA Inc Atlanta.....404-452-2355
IL RCA Corp Elms Plains.....312-391-4380
IN RCA Corp Indpls.....317-267-6375
KS RCA Corp Overland Pk.....913-642-7656
MA RCA Corp Wellesley.....617-237-7970
MI RCA Corp Birmingham.....313-644-1151
MN RCA Corp Opus.....612-929-0676
NJ RCA Corp Fairport.....716-223-5240
NY RCA Corp Columbus.....414-436-0036
OH RCA Corp Knoxvile.....615-588-2467
TX RCA Corp Dallas.....214-661-3515
VA RCA Corp Arlington.....703-558-4161
FR RCA Inc Ottawa ON.....613-728-0031
FR RCA Inc Calgary AB.....403-279-3384
FR RCA Inc Rexdale ON.....416-247-5491

DISTRIBUTORS

AL Hamilton-Avnet Huntsville.....205-837-7210
AZ Hamilton-Avnet Tempe.....602-231-5100
AZ Kieruff Elect Phoenix.....602-243-4101
AZ Wyle Dist Group Phoenix.....602-249-2232
AZ Sterling Elect Phoenix.....602-258-4531
CA Arrow Elect Sunnyvale.....408-745-6600
CA Schweber Elect Irvine.....714-863-0200
CA Kieruff Elect Palo Alto.....415-968-6292
CA Wyle Dist Group El Segundo.....213-322-8100
CA Hamilton Electro Sales
Culver City.....213-558-2121
CA Kieruff Elect LA.....213-725-0325
CA Kieruff Elect San Diego.....714-278-2112
CA Hamilton-Avnet San Diego.....714-571-7510
CA Schweber Elect Santa Clara.....408-748-4700

CA	Arrow Elect San Diego	714-565-6258
CA	Arrow Elect Chatsworth	213-701-7500
CO	Wyle Dist Group Thornton	303-457-9593
CO	Hamilton-Avnet Englewood	303-740-1000
CO	Kierulff Elect Englewood	303-790-4444
CO	Arrow Elect Aurora	303-696-1111
CT	Arrow Elect Wallingford	203-265-7741
CT	Hamilton-Avnet Danbury	203-797-2800
CT	Schweber Elect Danbury	203-792-3500
CT	Milgray Elect Orange	203-795-0711
CT	Kierulff Elect Wallingford	203-265-1115
FL	Arrow Elect Ft Lauderdale	305-776-7790
FL	Schweber Elect Hollywood	305-927-0511
FL	Hamilton-Avnet Ft Lauderdale	305-971-2900
FL	Arrow Elect Palm Bay	305-725-1480
FL	Milgray Elect Winter Park	305-647-5747
FL	Kierulff Elect St Petersburg	813-576-1966
GA	Arrow Elect Norcross	404-449-8252
GA	Hamilton-Avnet Norcross	404-447-7503
GA	Schweber Elect Norcross	404-449-9101
IL	Hamilton-Avnet Bensenville	312-860-7700
IL	Newark Elect Chicago	312-638-4411
IL	Schweber Elect Elk Grove Vlg	312-364-3750
IL	Arrow Elect Schaumburg	312-397-3440
IL	Kierulff Elect Elk Grove Vlg	312-397-3440
IN	Graham Elect Sply Indpls	317-634-8202
IN	Arrow Elect Indpls	317-243-9353
IN	Hamilton-Avnet Carmel	317-844-9333
KS	Hamilton-Avnet Overland Pk	913-888-8900
KS	Milgray Elect Overland Pk	913-236-8800
LA	Sterling Elect Metairie	504-887-7610
MD	Schweber Elect Gaithersburg	301-840-5900
MD	Hamilton-Avnet Columbia	301-995-3500
MD	Arrow Elect Baltimore	301-247-5200
MD	Pytronic Ind Savage	301-792-0870
MD	Zebra Elect Timonium	301-252-6576
MA	Hamilton-Avnet Woburn	617-935-7000
MA	A W Mayer Co Billerica	617-229-2255
MA	Sterling Elect Waltham	617-894-6200
MA	Arrow Elect Woburn	617-933-8130
MA	Schweber Elect Bedford	617-275-5100
MA	Kierulff Elect Billerica	617-667-8331
MI	Hamilton-Avnet Livonia	313-522-4700
MI	Arrow Elect Ann Arbor	313-971-8220
MI	Hamilton-Avnet Grand Rapids	616-243-8805
MN	Arrow Elect Edina	612-830-1800
MN	Kierulff Elect Edina	612-830-1800
MN	Hamilton-Avnet Minnetonka	612-932-0600
MN	Schweber Elect Edina	612-941-5280
MO	Hamilton-Avnet Elect Earth City	314-344-1200
MO	Arrow Elect St Louis	314-667-6888
NH	Arrow Elect Manchester	603-668-6968
NJ	Hamilton-Avnet Fairfield	201-575-3390
NJ	Kierulff Elect Fairfield	201-575-6750
NJ	Arrow Elect Marlton	609-596-8000
NJ	Arrow Elect Fairfield	201-575-5300
NJ	Hamilton-Avnet Cherry Hill	609-424-0110
NJ	Schweber Elect Fairfield	201-227-7880
NM	Arrow Elect Albuquerque	505-243-4566
NM	Hamilton-Avnet Albuquerque	505-765-1500
NM	Sterling Elect Albuquerque	505-884-1900
NY	Arrow Elect Melville	516-391-1640
NY	Hamilton-Avnet Rochester	716-475-9130
NY	Milgray Elect Farmingdale	516-420-9800
NY	Arrow Elect Rochester	716-275-0300
NY	Schweber Elect Westbury	516-334-7474
NY	Arrow Elect Liverpool	315-652-1000
NY	Hamilton-Avnet Melville	516-454-6000
NY	Schweber Elect Rochester	716-424-2222
NY	Arrow Elect Hauppauge	516-231-1000
NC	Arrow Elect Raleigh	919-876-3132
NC	Schweber Elect Raleigh	919-876-0000
NC	Hamilton-Avnet Raleigh	919-878-0810
NC	Kierulff Elect Raleigh	919-872-8410
OH	Arrow Elect Solon	216-248-3990
OH	Hamilton-Avnet Dayton	513-433-0610
OH	Hughes-Peters Columbus	614-294-3551
OH	Schweber Elect Beachwood	216-464-2970
OH	Arrow Elect Centerville	513-435-5563
OH	Kierulff Elect Cleveland	216-587-6780
OK	Kierulff Elect Tulsa	918-252-7537
OR	Hamilton-Avnet Lake Oswego	503-635-8157
OR	Wyle Dist Group Hillsboro	503-640-6000
PA	Herbach & Rademan Phila	215-426-1700
PA	Schweber Elect Horsham	215-441-0600
PA	Arrow Elect Monroeville	412-856-7000
TX	Hamilton-Avnet Houston	713-975-3515
TX	Schweber Elect Houston	713-784-3600
TX	Schweber Elect Dallas	214-661-5010
TX	Sterling Elect Houston	713-627-9800
TX	Hamilton-Avnet Irving	214-659-4111
TX	Sterling Elect Dallas	214-243-1600
TX	Arrow Elect Dallas	214-386-7500
TX	Arrow Elect Houston	713-530-4700
TX	Kierulff Elect Dallas	214-343-2400
TX	Kierulff Elect Houston	713-530-7030
UT	Hamilton-Avnet S L C	801-972-2800
UT	Wyle Dist Group S L C	801-974-9953
UT	Kierulff Elect S L C	801-973-6913
WA	Hamilton-Avnet Bellevue	206-453-5874
WA	Robt E Priebe Co Seattle	206-682-8242
WA	Wyle Dist Group Bellevue	206-453-8300
WA	Arrow Elect Bellevue	206-643-4800
WA	Kierulff Elect Tukwila	206-575-4200
WI	Taylor Elec Co Mequon	414-241-4321
WI	Arrow Elect Oak Creek	414-764-6600
WI	Hamilton-Avnet New Berlin	414-784-4510

RCD COMPONENTS INC 520		
E INDUSTRIAL PK DR MANCHESTER		
NH 03103 TWX 943-512		
CA MONROE EMP 400 ENG 10 OVER \$10,000		603-669-0054
ADV PG 410		
AL	Montgomery Mktg Inc Huntsville	205-830-0498
AZ	Elec-Com Assoc Phoenix	602-967-8644
CA	M2 Mktg Group Santa Clara	408-986-0676
CA	Landal Minyard Inc Los Angeles	213-879-0770
CO	Andale Lakewood	303-693-4331
FL	OEM Marketing Orlando	800-432-6108
GA	Montgomery Mktg Inc Norcross	404-447-6124

IL	Beta Technology Sales Glendale Hts.	312-790-9886
IN	STB & Assoc Carmel	317-844-9227
KS	Lowell-Kangas Shawnee Mission	913-631-3515
MD	Eastern Components Timonium	301-561-5811
MI	Electronic Sales Masters Coopersville	800-321-1848
MN	Components Group Mpls	612-374-1250
MO	Lowell-Kangas & Assoc St Louis	314-821-4050
NM	Elec-Com Assoc Albuquerque	505-898-6101
NY	R P Kennedy Co Rochester	716-271-6322
NY	Kahgan Sales Hempstead	516-538-2300
NC	Montgomery Mktg Inc Cary	919-467-6319
OH	Electronic Salesmasters Beachwood	800-362-2616
PA	Eastern Components West Conshohocken	215-825-8610
TX	Kruvand Assoc Dallas	214-437-3355
WI	Rep I & Assoc Colgate	414-628-4016
FR	Endrich Baulemente GmbH Nagold Germany	07452 2868
FR	Sirces Milano Italy	747649
FR	Vanreijns Elektronika Delft Neth.	015 569216
FR	Taitronics (Pty) Ltd Bryanstown S Afr.	618-2014
FR	Transducta A G Zurich Switz.	042 215731
FR	Pei Pha Industrial Co Ltd Taipei Taiwan	
FR	Freber Elektronik AB Enskede Sweden.	08-81-1020

DISTRIBUTORS

CA	A to Z Electronics Anaheim	714-634-3620
CA	Ital Electronics City of Industry	818-968-8515
CA	Centrex Campbell	408-379-0800
CA	Capacitors Unltd San Jose	408-946-7676
CA	Neumann Electronics San Diego	619-695-3008
CA	Cypress San Jose	408-945-8400
CO	Industrial Electronics Englewood	303-771-2636
CT	Electro-comp Stratford	203-375-5811
FL	Reptron Tampa	813-855-4656
IL	Prehler Chicago	312-384-6100
IL	Royal Northbrook	213-498-0935
IN	Earllyn Elkhart	219-862-2425
IA	Deeco Cedar Rapids	319-365-7551
MA	T L C Inc Burlington	617-273-0140
MA	Heilind Wilmington	617-272-5610
MA	Greeneshaw Newton	617-964-8900
MI	Reptron Livonia	313-525-2700
MN	Merit Electronics Mpls.	612-546-5383
MO	Ric-Tronics St Louis	314-567-9816
NJ	Brothers Electronics Edison	201-985-3000
NJ	Solid State Inc Bloomfield	201-429-8700
NY	Broadline Hauppauge	516-231-4100
NY	Summit Distributors Buffalo	716-884-3450
NY	SAI Farmingdale	516-293-2710
OH	REM Electronic Supply Warren	216-373-1300
OH	Repro Solon	216-248-8901
PA	Barbey Electronics Reading	215-376-7451
PA	E C I York	717-843-8971
TN	Randolph & Williams Columbia	615-388-7566
TX	Allied Electronics Ft Worth	817-336-5401
WA	Integrated Electronics Bellevue	206-644-1950
WA	Priebe Kirkland	206-821-4695

RCL SHALLCROSS US 70 EAST		
SMITHFIELD NC 27577		
TWX 510-939-1463		
ADV PG 409		919-934-5181
CT	Almo Hamden	203-288-4556

DISTRIBUTORS

AZ	TTI Phoenix	602-966-1616
CA	Shelley Chatsworth	818-998-3333
CA	Components Center Fountain Valley	714-979-0433
CA	TTI Chatsworth	818-709-1010
CO	Shelley Electronics Boulder	303-442-2718
CT	Almo Electronics Hamden	203-288-6556
FL	Dielco Ft Lauderdale	305-973-8700
FL	Classic Comps Supply Northbrook	312-272-9650
IN	Classic Comps Supply Indpls	317-872-4777
MA	TLC Inc Burlington	617-273-0140
NY	Command Farmingdale	516-293-1212
NY	Jaco Electronics Hauppauge	516-273-5500
NC	Resco/Raleigh Raleigh	919-781-5700
OH	Argent Englewood	513-836-8633
OH	Stotts Friedman Dayton	513-298-5555
OK	Altair Tulsa	918-252-5781
TX	TTI Ft Worth	817-429-1440
WA	Aerospace Computer Supplies Minneapolis	612-884-4725
WI	Classic Comps Supply New Berlin	414-786-5300
FR	Semad Markham ON	416-475-8500
FR	Carsten Electronics Scarborough ON	416-495-9999

RDF CORP 23 ELM AVE HUDSON		
NH 03051 TWX 710 228-1882		
A DIVENUTI EMP 120 ENG 8 \$2,500-\$5,000K		
AL	C B Metcalf Co Birmingham	205-956-6006
AZ	Vic Myers Assoc Mesa	602-241-9324
CA	Childerose Co Rancho Palos Verdes	213-541-3305
CA	Stoneman Equip Co Concord	415-798-8300
DE	Elocom Inc Newark	302-737-6472
FL	C B Metcalf Co Cantonment	904-968-5500
GA	Stromquist & Co Atlanta	404-458-6001
IL	Ray Knitter Assoc Wheaton	312-690-6363
IN	Stress Anal Svcs Dayton OH	513-263-8036
LA	Kemp Engrg Co Lafayette	318-269-9452
MD	Elocom Inc Columbia	301-992-7106
MA	Daner-Hayes Inc Wayland	617-855-0888
MI	Stress Analysis Svcs Brighton	313-832-6110
MO	C & G Indus Supply Independence	816-254-7738
NJ	Daner-Hayes Glen Gardner	201-537-4534
NM	Vic Myers Assoc Albuquerque	505-884-6878
OH	Stress Analysis Svcs Medina	216-725-7733
OK	C & G Indus Supply Tulsa	918-834-9966

PA	Elocom Inc Glenside	215-885-1715
TX	Kemp Engrg Co Addison	214-931-7100
WV	Stress Analysis SVCS Carnegie PA	412-344-5555
WI	Flow Inc Nashotah	414-367-1055
FR	Willer Engrg Willowdale ON	416-499-4421
FR	Willer Engrg Ltd St Laurent PQ	514-333-8555

RDI-REED DEVICES INC SUB		
AUGAT INC 525 RANDY RD		
CAROL STREAM IL 60188		
TWX 910-252-2118		312-682-4100
J DEICHL		

READE METALS & MINERALS CORP		
45 W RIVER RD RUMSON		
NJ 07760 TWX 238667		
C READE JR EMP 125 ENG 11 OVER \$10,000K		201-842-2294

READOUTS INC BOX 149 DEL MAR		
CA 92014		
P MCKIM EMP 27 ENG 3 \$500-\$1,000K		619-755-2641

REAL TIME SYSTEMS INC 152		
S MACQUESTON PKWY MT VERNON		
NY 10550		
A CITRIN		914-667-0425

REA MAGNET WIRE CO INC		
3600 E PONTIAC ST FORT WAYNE		
IN 46896 TWX 810-332-1411		
D DEMERITT EMP 1000 ENG 30		219-424-4252

AR	J Sanders Maumelle	501-851-6179
IN	G Banta Ft Wayne	219-486-7503
IN	B Cattell Fort Wayne	219-486-4423
NJ	Rea Magnet Wire Somerville	201-722-6100
NY	Richard Lill Normandy Bch, NJ	201-793-7553
OH	J Bettura Youngstown	216-758-0158
SC	J Tagtmeyer Seneca	803-882-5788
TN	R Alger Germantown	901-755-9877
WI	J C Hemming Brookfield	414-786-6970

DISTRIBUTORS

CA	Ward Elec Sply Denver	303-572-3541
GA	EIS Atlanta	404-355-1651
IL	Fay Elec Wire Chicago	312-267-9222
IN	Federal Insul of Ind Ft Wayne	219-423-9529
MN	H A Holden Inc Mpls	612-336-5353
NY	Brownell Electro New York	212-924-6000
OH	Electric Parts & Svc Bedford Hts	216-475-8800
OK	John H Cole Co Okla City	405-235-1761
PA	Smith of Phila Phila	215-743-8200
TX	Smith Houston	713-683-0311

RECHNER ELECTRONICS INDUSTRIES		
INC 8651 BUFFALO AVE		
NIAGARA FALLS NY 14304		
A RAMSAY EMP 4 ENG 1		716-283-8744

DISTRIBUTORS

AR	Electra Inc El Dorado	501-862-4901
CA	Nunn Royal Elec Santa Ana	714-835-6211
CT	LDB Engineering Madison	203-245-2242
GA	W T Healy Co Stone Mountain	404-939-3632
ID	Amfac Elec Boise	208-342-4694
IL	Antel Corp Westmont	312-887-8910
MI	Michigan Lectors Southfield	313-353-1350
NY	Whele Electric Buffalo	716-461-0200
NY	T-Rep Westbury	516-997-7946
OR	Fry Controls Portland	503-226-2620
OR	Vitus Elect Eugene	503-484-6337
TX	Askco Inst Corp Houston	713-645-9898
WA	Cascade Controls Redmond	206-881-8843

RECOGNITION CONCEPTS INC		
924 INCLINE WAY BOX 8510		

RED KAP INDUSTRIES BOX 100841
NASHVILLE TN 37210
TWX 810-371-1020.....615-889-6800
D BUSTER

RED LION CONTROLS WILLOW
SPRINGS CIR RD5 YORK PA 17402
TWX 510-657-4214.....717-767-6511
J THORNTON

REED SWITCH DEVELOPMENTS CO INC
BOX 4237 TYLER TX 75712.....214-593-1898
J AUSTIN EMP 6 ENG 1 \$100-\$250K

REEVE ELECTRONICS DIV MELLISA
& MURRAY 1720 W FULTON ST
CHICAGO IL 60612.....312-670-0150
G ELLIOTT EMP 15 ENG 3 \$500-\$1,000K

REEVES-HOFFMAN DIV 400
W NORTH ST CARLISLE PA 17013
TWX 510-650-3510.....717-243-5929
EMP 295 ENG 19

AZ Chaparral Electronics Phoenix.....612-252-0897
CA Westaironics Inc Culver City.....213-641-4123
CA Peninsula Technical Sales

CO R G Enterprises Boulder.....415-965-3636
FL G F Bohman Assoc Apopka.....303-447-9211
IL ESCO Assoc Chicago.....303-886-1882

MD R A Wafer Assoc Baltimore.....312-298-5310
MN H Jappe Co Wakefield.....301-744-1133
MN International Elctns Inc Mnpls.....617-245-9359

NY Compar New York Huntington.....612-571-0000
NC JWL Assoc Charlotte.....516-423-5660
PA Tri-State Mktg Inc Cincinnati.....704-523-3001

TX Electro Rep Engineering Harbor.....513-761-7993
TX Kite Electronics Sales Irving.....215-674-4421
WA N R Schultz Co Bellevue.....214-438-9336

206-454-0300

REFAC ELECTRONICS CORP BOX 809
WINSTED CT 06098
TWX 710-449-6464.....203-379-2731
E CAMBRICH EMP 50 ENG 5 \$5,000-\$10,000K

REFLECTONE INC 5125 TAMPA
WEST BLVD TAMPA FL 33614.....813-885-7481
A LANGONE EMP 650 ENG 200

REGDON CORP 3713 GRAND BLVD
BROOKFIELD IL 60513
TWX 910-691-2214.....312-485-5152
R HATFIELD EMP 70 ENG 3 \$2,500-\$5,000K
ADV PG 425

AL Tenn Tech Decatur.....205-350-0630
CA DJM Elctns Valencia.....213-362-4300
CA J W-Willhoit & Assoc Los Altos.....415-961-3660

CO Challenge Sales Northglenn.....303-450-2402
FL EIR Inc Maitland.....305-680-9600
IL Richmar Electronics Downers

Grove.....312-968-0118
MN J H Hanson Co Edina.....612-893-9960
MO Florence & Meyer Shawnee Mission.....313-722-5210

NH Mark-Rep Assoc Plaistow.....603-382-3563
NY Varrelman-Gorman Co Florham Park.....201-822-9619
NY Noeth-Honsinger Assoc Pittsford.....716-586-9002

OH J N Bailey & Assoc New Lebanon.....513-687-1325
PA Industrial Mktg Specialists
Co Abington.....215-659-0444

TX K & H Sales Co Plano.....214-423-652C

DISTRIBUTORS
CA Logan Elect Supply Burlingame.....415-594-0700
MA Land Elect Lynn.....617-592-2220
NJ Relay Specialists Inc Fairlawn.....201-797-3313

REGENCY ELECTRONICS INC
7707 RECORDS ST INDIANAPOLIS
IN 46226 TWX 27-2254.....317-545-4281
R PRIAMI EMP 325 ENG 20

CA J N Sales Rancho Cordova.....916-635-5899
CA Roman Marketing Westminster.....213-431-6551
CO Mountain Reps Denver.....303-623-0972

GA Maitland K Smith Inc Tucker.....404-939-3322
HI Hawaiian Intl Mktg Honolulu.....808-923-2235
IL K A M Enterprises MI Prospect.....312-870-1078

MA Montague Assoc N Scituate.....617-545-5505
MI Robert Milk Co Southfield.....313-354-3310
MN HMR, Inc Mnpls.....612-888-2100

MS Manufacturers Sales & Mktg
Svcs Hattisburg.....601-264-4755
MO T & A Marketing St Charles.....314-536-1209

NY Stan Axelrod & Assoc Englewood.....212-594-4090
NC New South Sales & Mktg Gastonia.....704-864-7707
OH C L Pugh & Assoc Columbus.....614-486-9678

OR Jud LeBrun Co Portland.....503-244-6805
VA Delta Sales Richmond.....804-346-0500

REHLANDER ASSOCS INC 118A
BRIDGE ST BEVERLY MA 01915.....617-922-5961
M REHLANDER EMP 5 ENG 1 \$100-\$250K

REICH ASSOCIATES INC BOX 73
PLANO TX 75074 TWX 382087.....214-424-7904
E REICH III EMP 9 ENG 2 \$100-\$250K

CO Grady Moore Assoc Boulder.....303-494-3351
NM Grady Moore Assoc Albuquerque.....505-262-1416
TX Moore Assoc Richardson.....214-690-4929

REICHTER SCIENTIFIC INSTR
DIV WARNER-LAMBERT TECHNOLOGIES
BOX 123 BUFFALO NY 14240
TWX 710-522-1731.....716-891-3000

G STEARES EMP 1100 ENG 50

RE INSTRUMENTS CORP 31029
CENTER RIDGE RD WESTLAKE
OH 44145 TWX 810-427-9257.....216-871-7617
A BOSWORTH EMP 20 ENG 6

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NEW YORK NY 10024.....212-873-4500
S HARTLEY EMP 26 ENG 3 \$250-\$500K

RELCO PRODUCTS INC 5594
E JEFFERSON AVE DENVER
CO 80237.....303-756-1143
EMP 10 ENG 2 \$100-\$250K

RELIABILITY INC BOX 218370
HOUSTON TX 77218
TWX 910-881-1739.....713-492-0550

J MARCUSSEN EMP 375 ENG 51 OVER \$10,000K
AZ OPS Assoc Phoenix.....602-246-1097

CA The Powerhouse Santa Clara.....408-748-1555
CA The Powerhouse Inc Santa Ana.....714-549-9599
CO AKI Enterprises Denver.....303-388-4488

CT Omni Rep Sandy Hook.....203-426-1253
FL Gra-Mar Orlando.....305-894-3351
IA Dy-Tronix Inc Cedar Rapids.....312-593-0282

IL Lora Green Assoc Elk Grove.....219-747-9525
IN Jim Finnegan & Co Ft Wayne.....319-377-8275
KS Dy-Tronix Inc Raytown MO.....816-356-6340

MD Brimberg Sales Wheaton.....301-946-2670
MA Omni-Rep Burlington.....617-749-6700
MO Dy-Tronix Inc Bridgetown.....314-219-4777

NJ G L Williams Assoc Haddonfield.....609-428-6060
NY Sonkin Assoc Yonkers.....914-968-8282
NC Barker Assoc Raleigh.....919-876-0282

OH Jim Finnegan & Co Cleveland.....216-238-5905
OK Advance Tech Sales Tulsa.....918-664-0482
OR Pacific Micro Technologies

Portland.....503-775-7885
TX Advance Tech Sales Dallas.....214-340-1300

DISTRIBUTORS
CT Sagar Elect Wallingford.....203-265-4600
IL Dot-Tronics Div Elk Grove.....312-593-0282

MD Whitney Dist Baltimore.....301-944-8080
MA Sagar Elect Supply Co Hingham.....617-749-6700
NY Kin Tronics Yonkers.....914-968-7736

OH Koehike Components Dayton.....513-435-5435
TX Southwest Elctn Supply
Richardson.....214-234-3050

TX Weatherford Dallas.....214-931-7333

RELIABLE ELECTRIC/UTILITY
PRODUCTS 11333 W ADDISON ST
FRANKLIN PARK IL 60131
TWX 312 455 2055.....312-455-8010

R KEAS EMP 1200 ENG 60 \$5,000-\$10,000K
CA J L Manly Santa Ana.....714-953-2108

FL D Boone Oviedo.....305-365-6489
IL J Elsiey Evanston.....312-886-9075
MD L Supsic Hanover.....301-796-0970

NJ S Fitzgerald Pennsauken.....609-665-5136
NY D Taylor DeWitt.....315-446-1431
NC G Andrews Garner.....919-779-1855

SC D Avera Myrtle Beach.....803-448-8361
TX E McBride Garland.....214-494-5000
VA T Wohlford Blacksburg.....703-953-2197

DISTRIBUTORS
GA Continental Sys Sply Atlanta.....404-433-1838
IL Joslyn Mfg & Sply Co Franklin

Park.....312-625-1500
KS North Supply Co Industrial
Airport.....913-791-7000

MO Graybar Elec Co St Louis.....314-727-3900
NE Centel Service Co Lincoln.....402-475-6622
NE Lincoln Tel Svc & Sply Lincoln.....402-466-8337

NY Rotelcom Supply Cortland.....607-756-7513
ND Dakota Electric Supply Fargo.....701-237-9440
OH All Supply Columbus.....614-276-8131

PA Sterling Telecom Supply
Wilkes Barre.....717-288-7471
TN Power & Telephone Memphis.....901-324-6116

TX Nelson Electric Supply Dallas.....214-741-6341
UT GTE Automatic Elec SLC.....801-537-5228
WI Midwest Telephone Sply Appleton.....414-739-6341

RELANCE ELECTRIC CO BOX 99502
CLEVELAND OH 44199TWX 216
486-5630.....800-245-4497
EMP 15000 ENG 1200 OVER \$10,000K

RELTRONIX INC BOX 100 FLANDERS
NJ 07836.....201-879-6644
D ZINGONE EMP 13 ENG 2 \$500-\$1,000K

REMEE WIRE PRODUCTS CORP
41 BRIDGE ST FLORIDA
NY 10921 TWX 64-6715.....914-651-4431
K PIMENTAL EMP 150 ENG 6 OVER \$10,000K

AZ Techni-Rep Sun Valley.....213-768-4223
CA Techni-Rep Sun Valley.....213-768-4223
CA Steve Olson Assoc Foster City.....415-672-8888

CO Moss Mktg Denver.....303-455-7205
GA Rohr Wanger Roberts Atlanta.....404-233-9751
IL Konex Inc Chicago.....312-583-2240

IN Maish Sales Mulberry.....317-296-2322
MN HMR Inc Mnpls.....612-888-2100
NM Moss Mktg Albuquerque.....505-292-7505

NY L J McTaggart Assoc Grand Island.....716-773-9222
NY Selectra Sales Bellmore.....516-221-7865
SC Rohr Wanger Roberts Rock Hill.....803-324-5111

UT Moss Mktg Bountiful.....801-292-8660

REMEX CAM OPER/EX-CELL-O CORP
1230 S LEWIS ST ANAHEIM
CA 92805 TWX 183-040.....714-535-4160
S VITT EMP 150 ENG 15 OVER \$10,000K

DISTRIBUTORS
CA Moxon Electronics Anaheim.....714-635-7600
FL Gentry Assoc Orlando.....305-859-7400

IN S-E-A Inc Carmel.....317-846-2591
MA J & J Assoc Winchester.....617-729-5770
NJ Hansen & Hughes Ho-Ho-Kus.....201-652-7055

NY RG Engineering Rochester.....716-424-7492
TX Roper Machinery Houston.....713-526-5679

REMLER CO 280 VISITACION MALL
BRISBANE CA 94005.....415-468-3435
R GRAY EMP 100 ENG 5 \$500-\$1,000K

REMTKX CORP 46107 LANDING PKWY
FREMONT CA 94538 TWX 171121.....415-490-3999
R GESELL EMP 35 ENG 10 \$5,000-\$10,000K

GA W Shaw Marietta.....404-977-1630

RENARD MFG CO INC 3131 NW 79 AVE
MIAMI FL 33122-1011.....305-592-1500

RENBRANDT INC 659 MASS AV
BOSTON MA 02118.....617-445-8910
M MATTOLA EMP 25 ENG 3

RENCO CORP 26 COROMAR DR GOLETA
CA 93117 TWX 910-334-1180.....805-968-1525
L WADE EMP 165 ENG 10 \$5,000-\$10,000K

CA Renco Westlake Vlg.....818-889-3631
CO Renco Denver.....303-839-5565
GA Renco Marietta.....404-971-2669

MN Renco Hopkins.....800-328-3960
NH Renco Salem.....603-893-5552
NJ Renco Cherry Hill.....609-662-0555

OH Renco Cincinnati.....513-474-4171

DISTRIBUTORS
CO Integrated Motion Systems
Englewood.....303-762-1817

MA Empire Electric Co Medford.....617-395-5000
MI Motion Control Corp Farmington
Hills.....313-478-1640

MN Kim Controls Inc St Paul.....612-636-9594
NJ Wolock & Lott Corp Kenilworth.....201-241-4333
NY Ross Equip Co Rochester.....716-271-5660

OH Aetna Electric Co Cincinnati.....513-871-2816
WA Sweo Engineering Bellevue.....206-644-2725

REPCO INC BOX 7065 ORLANDO
FL 32804.....305-843-8484
B LOWELL EMP 425 ENG 50 OVER \$10,000K

REPRODUCTION TECHNOLOGIES INC
BOX 815 BRISTOL IN 46507
TWX 510-600-2378.....219-848-5233

D BADKE EMP 8 ENG 3 \$100-\$250K
GA Secom Systems Chamblee.....404-455-0672
MA RJC Assoc Falmouth Hts.....617-540-8832

MI Shalco Ferndale.....313-547-4771
MN Kodo Assoc Mnpls.....612-881-1255

REPUBLIC ELECTRONICS INC
575 BROAD HOLLOW RD MELVILLE
NY 11747 TWX 96-1460 516-249-1414
L LABIENTO EMP 100 ENG 25 \$5,000-\$10,000K

REPUBLIC PACKAGING CORP
9160 S GREEN ST CHICAGO
IL 60620 TWX 25-4621 312-233-6530
H FASTH EMP 380 ENG 27 OVER \$10,000K
CA Republic Packaging Santa Fe Springs 213-921-0621
CA Republic Systems San Jose 408-263-3314
FL Republic Packaging Opalocka 305-685-5175
ID Republic Packaging Boise 208-344-6024
MA Republic Packaging Rockland 617-871-3860
MN Foam Fabricators Maple Lake 612-374-1285
NJ Republic Packaging Pennsauken 609-488-1300
OR Republic Packaging Portland 503-286-1213
TX Republic Packaging Dallas 214-630-7391
FR Republic Packaging Concord ON 416-669-4669
FR R P C Caribe Toa Baja PR 809-794-2065

RESEARCH ASSOCIATES INC
555 E LINDEN AVE LINDEN
NJ 07036 201-862-1154
M COHEN EMP 38 ENG 4 \$250-\$500K

RESEARCH DEVICES DIV AMER
OPTICAL CORP 335 SNYDER AVE
BERKELEY HTS NJ 07922 201-464-0668
M SCHNEIDER EMP 20 ENG 4 \$1,000-\$2,500K
CA Research Devices Div Sunnyvale 408-984-2444

RESEARCH INSTRUMENT CO INC
36 MASCOLO RD SOUTH WINDSOR
CT 06074 203-528-9625
M STOLL EMP 10 ENG 3 \$250-\$500K
ADV PC 244
CA F Pennucci Santa Rosa 707-542-8670
TX R L Stoll Corp Houston 713-461-3305
FR EPAC Elect Ltd Reigate, Surrey 49268
FR MPE Microtech AB Skarholmen, Sweden 08-970180
FR Electronic Entrps Bombay India 8827096

RESEARCH PRODUCTS CORP BOX 1467
MADISON WI 53701
TWX 910-286-2781 608-257-8801
F CARLSTROM
FL M Haller Inc Coral Gables 305-444-4617
GA J Kramer Roswell 404-998-0327
IL H P Whelpley Naperville 312-355-2735
MI R Schappke Brighton 313-227-2303
MN P Graham Maple Grove 612-425-8705
NJ R Rice Ridgewood 201-447-3359
PA J Donnelly Exton 215-363-8646
UT Western Sales Service SLC 801-359-9602
WI L A Monty Milwaukee 414-771-4267
FR R Tanney Richmondhill ON 416-883-0944

RESISTORS INC 5226 W 26TH ST
CHICAGO IL 60650 312-652-7555
J MARX EMP 50 ENG 3 \$250-\$500K
CT Panetics Co Plantsville 203-621-3911
FL Jerry Williams Inc Satellite Bch 305-773-6744
IL Resistance Specialists
Arlington Hts 312-259-6571
IA J R Sales Eng Cedar Rapids 319-393-2232
MI R C Nordstrom & Co Lathrup Vlg 313-559-7373
NY Symon Assoc New York 212-757-3638
OH W J Brauer & Assoc Inc Wickliffe 216-943-0601
WI Honkamp Sales Co Milwaukee 414-463-2530

RES-NET CORP 110 ROUTE 10
WHIPPANY NJ 07981 201-887-2260
S EDELSTEIN EMP 35 ENG 3 \$1,000-\$2,500K

REULAND ELECTRIC CO 17969
E RAILROAD ST CITY OF INDUSTRY
CA 91748 TWX 910 584-1308 213-964-6411
W HAWLEY EMP 475 ENG 5 OVER \$10,000K
AL Com-Trol Birmingham 823-0897
AZ G P Stearns Ind 602-259-9386
CA Engineering Reps Co Burlingame 348-5042
CA Reuland Electric Industry 964-6411
CO Hubert Kaub & Co Englewood 761-5881
FL Tri-Tech Eng & Sales Land O'Lakes 996-4347
GA Tri-Tech Eng & Sales Atlanta 457-4347
IL K Schrade-Batterson Co Chicago 282-0200
KS McCrary Ind Sales Shawnee Mission 341-5401
KY Dynadrive Cinc OH 513-631-6666
MD J L Souser & Assoc York 464-7891
MI Adams Ind Sales Oak Park 968-3232
MN R X Raymond Co Mnpls 588-8831
MO Power Transmission Systems St Charles 928-1750
NE McCrary Ind Sales Lincoln 464-8971
NH Rodgers & Assoc Amherst 673-7273
NJ K H Raymond Assoc Valley Forge 933-4448
NC John Harward Co Gastonia 866-9775
OH Dynadrive Euclid 261-1307
PA Blackham Co Pittsburgh 412-364-3535
TX G R Haley Co Dallas 631-8430
UT Electrical Sales Co S L C 486-1367
WA Engineering Sales Seattle 623-4949
WI Schrade-Batterson Co Brookfield 781-5660
FR Rotator Products Ltd Willowdale Ont 491-7843
FR Electroforce St Lambert PQ 672-0362
FR Tormag Engrg Prods Ltd No Vancouver BC 984-9731

REUTER-STOKES INC 8499 DARROW RD
TWINSBURG OH 44087 TWX 98
5253 216-425-3755
J SKARUPA EMP 300 ENG 30 OVER \$10,000K

FR Reuter-Hokes Can Ltd 465 Dobbie Dr
Cambridge ON

REVERE CORP OF AMERICA
845 N COLONY RD WALLINGFORD
CT 06492 TWX 710-476-3197 203-269-7701
J MCGURKIN EMP 390 ENG 40 OVER \$10,000K
CA T L Purma Agoura 818-706-8675
CT J L Stimpson Old Lyme 203-434-5575
IL P A Nissen Rochester 217-498-9261
MA J Kolbe Manchester 203-649-1525
NY G Buteau Hamden 203-288-7701
TX R C Lind Mansfield 817-477-5071
FR Revere Corp of Amer Toronto ON 416-231-5049
FR Revere Corp of Amer Downsview ON 416-736-4940

REXNORD GAS DETECTION PRODUCTS
207 E JAVA DR SUNNYVALE
CA 94089 TWX 171127 408-734-1221
B FEICHTMEIR EMP 60 ENG 5 \$2,500-\$5,000K

REXNORD INC BOX 2022 MILWAUKEE
WI 53201 TWX 910-262-3405 414-643-3000
EMP 13500 ENG 850 \$1,000-\$2,500K

REXNORD SPECIALTY FASTENER
DIV TRIDAIR PRODS 3000
W LOMITA BLVD TORRANCE
CA 90505 TWX 910-347-6239 213-530-2220
R LENKNER EMP 650 ENG 15 OVER \$10,000K
CA B Butler Midway City 213-530-2220
CA J Hanks Porterville 213-530-2220
CA B Johnson Burbank 213-530-2220
CT B Smith W Hartford 203-233-7308
FL J Ronk Tampa 813-933-5988
MI E Bunnell Baroda 513-421-3447
MO W Krest Chesterfield 314-837-7550
NY M Beery West Babylon 516-248-3740
OH B Koenig Cincinnati 513-421-3447
TX R Volluz Arlington 817-277-0761
WA F Read Redmond 206-363-2644

DISTRIBUTORS
CA Special-T Fasteners Canoga Pk 213-998-1412
CA Barco Aviation Los Angeles 213-207-0481
CA Lawrence Engineering Burbank 818-846-6400
CT Adams Ind Windsor Locks 203-668-1201
GA Atlanta Hdwe Specialty Norcross 404-449-3000
KS Unirex Wichita 316-685-5451
MA Electronic Fasteners Waltham 617-890-7780
MA Engineering Fasteners N Billerica 617-667-6001
MN Aero-Space Comp Mnpls 612-884-4725
NJ New York Fasteners Paramus 201-265-8770
NY Merit Fasteners Bayshore 516-242-1800
NY Hardware Specialty Long Island 718-361-9393
OH Jergens Inc Cleveland 216-486-2100
PA Aero Missile Comps Bensalem 215-245-5760
TX ASC Ind Arlington 817-640-1300

REYNOLDS METALS CO BOX 27003
RICHMOND VA 23261
TWX 710-956-0112 804-281-2000
W CLARKE JR EMP 30,000 OVER \$10,000K
CA Reynolds Metals Co LA 932-7272
GA Reynolds Metals Co Atlanta 668-5300
IL Reynolds Metals Co Brookfield 485-9000
MI Reynolds Metals Co Southfield 353-7191
MO Reynolds Metals Co Chesterfield 537-1700
NY Reynolds Metals Co Tarrytown 997-5168
OH Reynolds Metals Co Cincinnati 489-9346
PA Reynolds Metals Co Bala-Cynwyd 668-4690
TX Reynolds Metals Co Dallas 851-2704
WA Reynolds Metals Co Redmond 885-1926
WI Reynolds Metals Co Milwaukee 778-3762

RFD INC 5024 NASSAU ST, TAMPA
FL 33607 TWX 810-876-9146 813-872-1502
R FRIZZELL EMP 50 ENG 6 \$5,000-\$10,000K

R F I CORP 100 PINE AIRE DR
BAY SHORE NY 11706
TWX 510-227-6233 516-231-6400
R FITZPATRICK EMP 330 ENG 12
AZ Williams-Assoc Scottsdale 602-947-4297
CA Peninsula Technical Sales
Mt View 415-965-3636
CA M W Riedel & Co Alhambra 213-283-7694
CO Williams-Assoc Commerce City 303-289-5647
FL Tech-Rep Clearwater 813-577-2779
IL Joe Popp Sales Co North Riverside 312-447-6124
IA Ensco-Rep Inc Blue Grass 319-386-6600
KS Ensco-Rep Inc Olathe 913-381-7557
MD Mechronics Sales Inc Rockville 301-340-2130
MO Ensco-Rep Inc Maryland Hts 314-423-3935
NH EMC Sales Inc Hudson 603-889-5751
NY Williams-Assoc Albuq 505-255-1638
NY Trionic Assoc Great Neck 516-466-2300
NY Empire Technical Assoc
Binghamton 607-772-0651
NC Murocta Corp Winston-Salem 919-722-9445
OH Denton Marketing Ft Wayne IN 219-627-5515
PA Harry J White Co Cherry Hill NJ 609-428-4544
TX McBride Scientific Sales Garland 214-494-5000
UT Williams Assoc SLC 801-532-7701
WA Granville Gillette Assoc Seattle 206-284-3344
FR Norgay Entrps Ltd Toronto ON 416-239-3025
FR Norgay Entrps Ltd Ottawa ON
FR Norgay Entrps Ltd Westmount PQ 514-487-2319
FR Norgay Entrps Ltd Vancouver BC 604-299-4626

RF MONOLITHICS INC 4441 SIGMA RD
DALLAS TX 75244
TWX 910-860-5474 214-233-2903
M FELS EMP 80 ENG 15 \$5,000-\$10,000K

RF POWER LABS INC 22125
17 AVE S E BOTHELL WA 98021
TWX 32-1042 206-481-8833
G COOK EMP 13 ENG 2 \$500-\$1,000K

RHG ELECTRONICS LAB INC
161 E INDUSTRY CT DEER PARK
NY 11729 TWX 510-227-6083 516-242-1100
S WOLIN EMP 200 ENG 23 OVER \$10,000K
AZ Territorial Mktg Scottsdale 602-994-8665
CA Midwin & Olifson Tarzana 818-996-9093
CA Cain-White Los Altos 415-948-6533
CO Herb Bass Assoc Boulder 303-530-7509
DC M Lader Co Washington 202-296-2497
MA Geder Assoc Reading 617-944-3105
NM IMEC Albuq 505-883-9010
NY Spectrum Sales Hartsdale 914-472-8600
NY T-Squared Electronics Syracuse 315-463-8592
PA M Lader Co Lafayette Hill 215-825-3177
TX Cain & Co, Inc Dallas 214-247-3901
UT Herb Bass Assoc Bountiful 801-295-7100
FR R F Microwave Ltd St Laurent PQ 514-335-2335

RHINTEK BOX 220 COLUMBIA
MD 21045 301-730-2575
H CLARK EMP 6 ENG 4 \$100-\$250K

DISTRIBUTORS
FL Gentry Assoc 550 N Bumby Orlando
MO Dytac South 320 Brooks Dr Hazelwood

RHO-CHENG CORP 425 ISIS AVE
INGLEWOOD CA 90301 213-776-6233
R GUSTAFSON

RHODES INC M H 99 THOMPSON RD
AVON CT 06001 203-673-3281
H MATLES EMP 300 ENG 3 \$5,000-\$10,000K
AZ Bidwell Sales of AZ Mesa 602-265-2029
CA Bidwell Sales Assoc Gardena 313-770-0300
CA Ewing-Foley Inc Los Altos 415-941-4525
CO E & M Sales Inc Englewood 303-761-6202
CT F G Kosowicz W Hartford 203-233-7883
GA Kennon Frazier & Roach Atlanta 404-351-4063
IL Sigma Sales Corp Skokie 312-674-2950
IA F R Johnston Co Des Moines 515 255-5865
KS Mercer-Zimmerman Inc K C 913-621-5405
MN Nelson & Son Inc Mnpls 612 920-3414
MS Strickland Assoc Jackson 601-939-1922
MO R E Myers & Son St Charles 314-928-1577
NY Closter Bros Bay Shore 516-242-0002
NY Henkel Mktg Co Skaneateles 315-685-6945
NC C Niedringhaus Matthews 704 847-9288
OH Jubell Assoc Cleveland 216-831-0364
OR Al Berg Agency Portland 503-227-4045
PA Ward Engineered Equip Wallingford 215-566-5650
TX J Y Schoonmaker Co Inc Dallas 214-349-1650
VA Electrical Assoc Richmond 804-794-6826
FR M H Rhodes Can Ltd Ottawa ON 613 224-1180
FR R Castello Jr San Juan P R 809-722-1239

RHOMBUS INDUSTRIES INC
15801 CHEMICAL LA HUNTINGTON
BEACH CA 92649
TWX 910-596-1826 714-898-0960
L GONZALES EMP 45 ENG 4 \$5,000-\$10,000K
CA SMI Rep Group Santa Clara 408-486-1610
CA Earley & Assoc Irvine 714-833-1806
CO A-5 Parker 303-841-3651
TX Space Elctns Irving 214-251-3636

R H TECHNICAL INDUSTRIES INC
8300 GREENSBORO DR MCLEAN
VA 22102 TWX 248981 703-883-1930
A EVANS EMP 180 ENG 10 \$5,000-\$10,000K

RICHARD LEE CO BOX 724
NEW PROVIDENCE NJ 07974 201-276-0710
H KUNDRAT EMP 6 ENG 2 \$250-\$500K

RICHCO PLASTIC CO 5825
N TRIPP AVE CHICAGO IL 60646
TWX 910-221-1938 312-539-4060
EMP 225 ENG 5 OVER \$10,000K
AZ EDS Tempe 602-438-1547
CA West Elctn Sales Garden Grove 714-898-0120
CA Ross Mktg Santa Clara 408-988-8111
CO Delron Co Denver 303-373-0300
FL APM Assoc Tampa 813-886-2457
GA Deanco Inc Marietta 404-429-0126
HI Energy Loss Locators Kahuku 808-293-2788
IN Electronic Sales & Engr Indpls 317-849-4260
IA J Taylor Hersey Co Marion 319-377-2666
KS Mid-tec Assoc DeSoto 913-441-6565
MA Apex Assoc Westwood 617-326-5042
MI Jay Mktg Plymouth 313-459-1200
MN Johannes Sales Co Mnpls 612-827-5988
MO Midtec Assoc De Soto 913-441-6565
NY C D Truax Fulton 315-592-7184
NY Perry Sattler & Assoc Lynbrook 516-593-7880
OH Alexander Ind Sales Chagrin Falls 216-247-4133
OR Dussault & Assoc Portland 503-641-8540
PA Cordray Sales Radnor 215-687-1366
TN Daugherty Enter Hendersonville 615-822-4373
TX Melco Mktg Inc Dallas 214-783-2166
WA Dussault & Assoc Seattle 206-281-4025
WI Wm R Bolles Assoc Mequon 414-241-3320

DISTRIBUTORS
AZ Heilind Electronics Phoenix 602-243-7171
CA ICO Rally Palo Alto 415-856-9900
CA Force Electronics Inglewood 313-776-1324
CA Bisco Industries San Jose 408-946-8980
CO Industrial Electronics Englewood 303-694-9444
CT Impact Sales Hamden 203-281-1331
FL Bryan Distributors St Petersburg 813-344-3579
GA Deanco Inc Marietta 404-429-0126
IL Components Inc Lisle 312-852-7707

IN Mallory Dist Indianapolis.....317-261-1447
 IA Vrbik-Berquist Cedar Rapids.....319-525-1335
 MD Deanco Inc Gaithersburg.....301-948-5444
 MA Impact Sales Needham.....617-444-3971
 MI Emjel Electronics Clawson.....313-435-0460
 MN Joire Co Mnpls.....612-545-5669
 NJ Deanco Inc Fairfield.....201-575-7960
 NM Connecting Components Corp Albuquerque.....505-345-8921
 NY Deanco Inc Ithaca.....607-257-4444
 NY Masline Electronics Rochester.....716-546-5373
 OR Component Resources Beaverton.....503-641-8488
 TX Advance Components Carrollton.....214-661-2410
 VA Deanco Inc Virginia Beach.....804-460-3558
 WA Components Resources Bellevue.....206-454-8666
 FR A C Simmonds & Sons Pickering ON.....416-839-8041

RICHLAND GLASS CO TUCKAHOE RD
 RICHLAND NJ 08350.....609-691-1697
 J CARSON EMP 60 ENG 3 \$2,500-\$5,000K
 AZ Semi-Tech Mktg Corp Phoenix.....602-267-8841
 CA LP Assoc Del Mar.....619-438-7512
 MA FRB Assoc Landisville NJ.....609-697-3431
 NY Evey Engrg Assoc Vineland.....609-692-2610
 TX T H T Sales Dallas.....214-783-1537

RICHMOND TECHNOLOGY INC
 COLTON & OPAL BOX 1129
 REDLANDS CA 92373 TWX 67-6460.....714-794-2111
 D ANDERSON EMP 150 ENG 5 OVER \$10,000K

DISTRIBUTORS

AZ Nelson Packaging Phoenix.....602-253-0700
 CA Biggam Entprs San Jose.....408-298-6810
 CA ICS Santa Fe Springs.....213-949-4030
 CO Zellerbach Paper Denver.....303-371-9700
 CO Mid Mtn Rep Colo Springs.....303-598-1369
 CT Rourke-Eno Hartford.....203-522-8211
 FL Thomas Assoc Windermere.....305-876-4280
 IL Riley & Geehr Chicago.....312-327-8100
 MA Pacific Paper Prods Lawrence.....617-683-8771
 MN Central Container Mnpls.....612-721-6224
 NJ Norel Bogota.....201-646-1900
 NJ Pro Pac Plainfield.....201-755-4940
 NY Alling & Cory Rochester.....716-454-1880
 NC L D Burdette Co Charlotte.....704-399-2498
 OR Zellerbach Paper Portland.....503-255-2121
 PA Alling & Cory Bensalem.....215-639-9900
 TN Würzburg Bros Memphis.....901-525-1441
 TX Semi-tech Garland.....214-494-4555
 UT Dixon Paper SL.....801-972-2661
 VA Virginia Packaging Herndon.....703-471-0855
 WA Zellerbach Paper Seattle.....206-765-5000
 FR Smith Packaging Mississauga ON.....416-678-0101

RICOH CORP 5 DEDRICK PL
 WEST CALDWELL NJ 07006.....201-882-2000
 S JOERG EMP 1100

AL Ricoh Corp Huntsville.....714-863-0550
 AZ Ricoh Corp Phoenix.....602-241-1653
 CA Ricoh Corp San Francisco.....415-468-3460
 CA Ricoh Corp Newport Bch.....714-553-0711
 CO Ricoh Corp Denver.....303-695-1167
 CT Ricoh Corp Stamford.....203-323-3266
 FL Ricoh Corp Coral Gables.....305-448-9930
 GA Ricoh Corp Atlanta.....404-634-4291
 IL Ricoh Corp Chicago.....312-449-8480
 LA Ricoh Corp Metairie.....504-454-3766
 MA Ricoh Corp Needham.....617-449-3466
 MI Ricoh Corp Southfield.....313-356-3300
 MN Ricoh Corp Mnpls.....612-835-5344
 MO Ricoh Corp Creve Coeur.....314-432-0611
 NY Ricoh Corp New York.....212-869-1930
 NY Ricoh Corp Latham.....518-783-8931
 NC Ricoh Corp Charlotte.....704-527-1165
 OH Ricoh Corp Beachwood.....216-831-4791
 OK Ricoh Corp Tulsa.....918-492-3158
 OR Ricoh Corp Portland.....503-245-1459
 PA Ricoh Corp Bala Cynwyd.....215-667-2291
 TN Ricoh Corp Nashville.....615-859-6167
 TX Ricoh Corp Houston.....713-462-7553
 VA Ricoh Corp Richmond.....704-359-3017
 WA Ricoh Corp Bellevue.....206-453-8749
 FR Ricoh Corp Can Ltd Montreal PQ.....514-744-5869
 FR Ricoh Corp Can Ltd Ottawa ON.....613-236-7055
 FR Ricoh Corp Can Ltd Calgary AB.....403-229-2694
 FR Ricoh Corp Can Ltd Vancouver BC.....604-669-3652
 FR Ricoh Corp Can Ltd Dartmouth NS.....902-463-2991
 FR Ricoh Corp Can Ltd Winnipeg MB.....204-774-9945

RI/CONTROL SYSTEMS DIV RESEARCH
 INC BOX 24064 MINNEAPOLIS
 MN 55424 TWX 910-576-2837.....612-941-3300
 B CALLAHAN EMP 300 ENG 25 OVER \$10,000K

AL Burnette Techno-Metrics
 Huntsville.....205-533-9073
 CA Manco Santa Clara.....408-496-6611
 CA Westlab Inc Brea.....714-993-2150
 CO Loritz Controls Lakewood.....303-232-7803
 FL Lewis & Assoc Tampa.....813-988-2104
 GA Craft Assoc Atlanta.....404-256-0402
 IN Instrumentation Systems
 Div Indianapolis.....317-786-0458
 KS Dy-Tronix Inc Independence.....816-373-6600
 MA Blake Equip Co Amherst.....617-373-9115
 MI Geo R Peters Assoc Troy.....313-362-1220
 MN Busch Electronics Mnpls.....612-835-2044
 MO Dy-Tronix Inc Bridgeton.....614-731-5799
 NJ Blake Equipment Co Englewood.....201-567-4252
 NM Industrial Prods Albuquerque.....505-256-3561
 NY Alpha Co Williamsville.....716-633-1342
 NC Industrial Drives Charlotte.....704-535-5414
 OH Instrumentation Sys Dayton.....513-294-2838
 OR McLaren Inc Portland.....503-297-2248
 PA Roberts Eng & Sales Co Radnor.....215-688-5525
 UT Instrumentation Sales SL.....801-277-2044
 VA W A Brown Equip-Comp Seabrook.....901-577-6105
 WA McLaren Inc Bellevue.....206-454-3400
 FR Alexander D Smart Ltd Markham ON.....416-474-0550

RIDGE COMPUTERS CORP 2451
 MISSION COLLEGE BLVD
 SANTA CLARA CA 95054
 TWX 176956.....408-986-8500
 J CARRO EMP 185 ENG 100
 CA Ridge Computers 6187 Bristol Pkwy
 Culver City
 IL Ridge Computers 1100 Woodfield Schaumburg
 MA Ridge Computers 420 Bedford Lexington

RIDGE TOOL CO SUB EMERSON ELEC CO
 400 CLARK ST ELYRIA OH 44036.....216-323-5581

RIFA INC GREENWICH OFFICE PK 3
 GREENWICH CT 06836 TWX 221976.....203-625-7300
 W MOELLER EMP 14
 CA ELSCO Tustin.....714-891-4621
 CA Pacific Electronics San Jose.....408-286-9400
 FL Bolton Assoc Pompano Bch.....305-781-8887
 IL Carlson Elect Sls Assoc
 Elk Grove Vlg.....312-956-5500
 MD Macrotech Assoc LTD Glen Burnie.....301-437-8588
 NV Unifronics Inc Reno.....702-825-1978
 NH Power Conversion Sys Inc
 Londonderry.....603-434-2371
 NY JMR Sales Inc Parlin NJ.....201-727-5225
 PA Naudain Assoc Marlin NJ.....609-983-5300
 TX Tesco Inc Garland.....214-681-1376

DISTRIBUTORS

CA World Products Inc Sonoma.....707-996-5201
 RIL ELECTRONICS INC 125
 TITUS AVE WARRINGTON PA 18976
 TWX 5106658525.....215-343-5075
 P HATZIS EMP 55 ENG 11 \$250-\$500K
 RING GROUP OF NORTH AMERICA
 230 COMMUNITY DR GREAT NECK
 NY 11021 TWX 221510.....516-487-0250
 P MCLEAN EMP 24 ENG 7 \$2,500-\$5,000K
 CA Allwest Electronics Camarillo.....805-388-1789
 CA Lichtenauer & Assoc Antioch.....415-757-1200
 FL Klumpf Sales Co Jacksonville.....904-268-1529
 HI JC Electronics Honolulu.....808-841-5526
 MN Gustafson Sales Co Red Wing.....612-388-4277
 MO Central Mktg Group KC.....816-741-7460
 OH Douglas Comm Co Chagrin Fall.....216-247-6008

RIPLEY CO INC 46 NOOKS HILL RD
 CROMWELL CT 06416
 TWX 710-428-9567.....203-635-2200
 R CLARK EMP 110 ENG 3 \$2,500-\$5,000K

RIPLEY CO INC UTILITY TOOL DIV
 46 NOOKS HILL RD CROMWELL
 CT 06416 TWX 710-428-9567.....203-635-2200
 R CLARK EMP 110 ENG 3 \$2,500-\$5,000K

RISK INDUSTRIES INC GEORGE
 GRI PLAZA KIMBALL NE 69145
 TWX 910-620-9040.....308-235-4645
 J FISHER EMP 80 ENG 5 \$1,000-\$2,500K
 AL Electr Mfgs Agents Huntsville.....205-830-4030
 CA Context Engineering Santa Clara.....408-748-8676
 CA Local Sales Placentia.....714-993-1800
 CA Cirolia Electr Sales Escondido.....619-743-3015
 FL Electr Mfgs Agents St Petersburg.....813-894-1071
 GA Electr Mfgs Agents Roswell.....404-992-7240
 IL Chadra-Schlike Wheaton.....312-653-8126
 KS REPS Collinsville IL.....618-345-1808
 MD Bard Assoc Glen Arm.....301-592-5818
 MA Jodan Technology Lexington.....617-862-2354
 MI Pitcher-Poulin Dearborn.....313-582-5450
 MN REP North Edina.....612-893-9960
 NY Morgan Electr Sales Huntington
 Station.....516-549-5180
 NC Electr Mfgs Agents Pineville.....704-541-2628
 TX Precision Technology Richardson.....214-234-8071

DISTRIBUTORS

CA Electric Switches LA.....213-660-1310
 CA Advanced Computer Prods
 Santa Ana.....714-558-8813
 MA Hi-Tek Electronics Cambridge.....617-491-0442

RITTAL CORP 1900 E LEFFEL LA
 SPRINGFIELD OH 45505
 TWX 241 354.....513-325-1141
 J WEIST EMP 16
 CA TDM Pasadena.....818-304-9202
 CT Rittal Corp Bristol.....203-589-1134
 GA Lakewood Industr Lawrenceville.....404-932-1106
 IL Rockford Controls Glenn Elynn.....312-469-4016
 MI Rittal Corp Detroit.....313-477-1787
 MN Ten-Tech Shoreview.....612-481-0274
 MS Doby Assoc Jackson.....601-981-1138
 NY Lachut Electrical Sales Syracuse.....315-458-6486
 OH Rittal Corp Cincinnati.....513-474-4322
 OR J A Tudor Assoc Portland.....503-288-5154
 PA Robt W Colley & Assoc Pittsburg.....412-331-3121
 TX The Power Connection Dallas.....214-357-8207

RLC ELECTRONICS INC 83
 RADIO CIRCLE MT KISCO
 NY 10549 TWX 710-571-2103.....914-241-1334
 P WRIGHT EMP 77 ENG 12 \$5,000-\$10,000K
 AZ Faser Technical Sales Scottsdale.....602-948-4404
 CA Dura Elctn Sales Cupertino.....408-255-2084
 CA RL Components Inc Malibu.....213-456-9021
 FL Precision Mktg Svcs Coral
 Springs.....305-752-1700
 IL Cudahy Sales Wauconda.....312-526-2844
 IN J & B Engrg Sales Ft Wayne.....219-483-2813
 MD Delmarva Engineering Severna Pk.....301-647-8007
 MA Lancer Assoc Lexington.....617-861-1720
 MO Ame Sales St Louis.....314-965-1779
 NJ Eltech Sales Inc Paramus.....201-967-1309
 TX McBride Scientific Sales Garland.....214-494-5000

RMB MINIATURE BEARINGS BOX C
 RAMSEY NJ 07446.....201-825-8383
 H BUCHMANN EMP 65 ENG 10

RMC POWER SEMICONDUCTOR DIV
 2150 W 6 AVE BROOMFIELD
 CO 80020 TWX 45 450.....303-469-1883
 D SPRATTE EMP 10 ENG 5 \$2,500-\$5,000K
 AZ O'Donnell Assoc Phoenix.....602-944-9542
 CA Reed Elctn Mktg Los Alamitos.....714-821-9600
 CA Shaw Tech Inc Palo Alto.....415-961-4775
 CO Connors Co Broomfield.....303-460-0545
 IL T-Squared Assoc Palatine.....312-991-2144
 MD Imagitron Sales Co Pikesville.....301-521-2020
 MI A Blumenberg Assoc Oak Park.....313-968-3230
 MN General Elctns Corp Burnsville.....612-894-1840
 MO J G Macke St Louis.....314-432-2830
 NJ R E Breuer Co Rahway.....201-388-5045
 NM O'Donnell Assoc Albuquerque.....505-883-1030
 OH Allen Nace Co Englewood.....513-836-0931
 TX Titan Reps Dallas.....214-241-1398

DISTRIBUTORS

CA Added Value Elect Dist Tustin.....714-730-5848
 OR Dunn Elect Portland.....503-285-0214
 VA Virginia Radio Sply
 Charlottesville.....804-296-4184

RMF PRODUCTS INC 1275 PARAMOUNT
 PKWY BATAVIA IL 60510.....312-879-0020
 R FRIEDERS EMP 8 ENG 2 \$250-\$500K
 ADV PG 41

RMS MOTOR CORP BOX 637
 BINGHAMTON NY 13902.....607-775-1100
 R BENSMAN EMP 11 ENG 2 \$250-\$500K

DISTRIBUTORS

MA Electro Sales Somerville.....617-666-0500
 PA Herbach & Rademan Phila.....215-426-1700

ROANWELL CORP 180 VARICK ST
 NEW YORK NY 10014
 TWX 710-581-6555.....212-989-1090
 A SEELIN EMP 250 ENG 10 \$5,000-\$10,000K
 CA Jewett Co N Hollywood.....213-789-8103
 OH Hykes Point Mktg Dayton.....513-298-8291
 FR Eric Sullivan Assoc Ltd
 Ottawa ON.....613 237-1098
 FR Tortech Mktg Toronto ON.....416-536-1441

DISTRIBUTORS

GA Southern Tel Supply Atlanta.....404-447-8410
 GA Contel Atlanta.....404-433-1838
 KS North Supply Lenexa.....800-255-6886
 MO Graybar Elec St Louis.....314-531-4700
 NE Centel Supply Lincoln.....402-467-4554
 OH Buckeye Tel Supply Columbus.....614-276-8131
 PA Sterling Telecomm Forty Fort.....717-288-7471
 TX Power & Tel Supply Houston.....901-324-8811
 FR Nedco Ontario.....416-677-1410

RO ASSOCIATES INC 246 CASPIAN DR
 SUNNYVALE CA 94086
 TWX 910-339-9304.....408-744-1450
 R OKADA EMP 95 ENG 8

AL Lee Assoc Huntsville.....205-533-5896
 CA Amasco Carson.....516-8561
 CA Amasco Sunnyvale.....733-8690
 CO FG Marketing Englewood.....795-9176
 FL OEM Marketing Orlando.....305-299-1000
 IL Maroon Assoc Skokie.....312-675-6450
 KS Midtex Assoc Desoto.....441-6565
 MD Gans & Pugh Assoc Dayton.....527-3262
 MA Intersell Burlington.....273-3844
 MN R-J Inc Mnpls.....866-3661
 MO Midtex Assoc Florissant.....837-5200
 NM Fry-Gates Inc Albuquerque.....262-1525
 NY Sonkin Assoc Mt Vernon.....914-968-8282
 NY B D Hummel Co Utica.....736-7821
 OH Omega Sales Inc Centerville.....513-434-5507
 OK Cunningham Comp Co Tulsa.....492-0390
 TX Cunningham Co Houston.....461-4197
 TX Cunningham Co 9440 Old
 Katy Rd Houston.....461-4197
 VA Gans & Pugh Assoc Arlington.....527-3262
 WA Huntley Assoc Everett.....353-1833

ROBBINS & MYERS INC ELEC
 MOTOR DIV BOB MCCORMICK RD
 GALLIPOLIS OH 45631
 TWX 205 427.....614-446-9868
 G DAVIS EMP 500 ENG 20 OVER \$10,000K
 CO Robbins & Myers Arvada.....303-431-2302
 CT Robbins & Myers Vernon.....203-647-9852
 IL Robbins & Myers South Barrington.....312-551-3700
 MN Robbins & Myers Burnsville.....612-894-5650
 NY Robbins & Myers Monroe.....914-782-0820
 NY Robbins & Myers Pittsford.....716-385-3340
 TX Robbins & Myers Arlington.....817-460-7683

ROBERTS SECURITY & PAGE SERVICE
 3995 PACIFIC COAST HWY
 TORRANCE CA 90505.....213-378-0451
 W ROBERTS EMP 5 ENG 2

ROBICON CORP 100 SAGAMORE
 HILL RD PITTSBURGH PA 15239
 TWX 812-441.....412-327-7000
 D KRAEMER EMP 250 ENG 30 OVER \$10,000K

ROBINSON-HALPERN CO 1 APOLLO
 RD BOX 248 PLYMOUTH MTG
 PA 19462 TWX 510-660-8637.....215-825-9200
 J LANZA EMP 80 ENG 6 \$2,500-\$5,000K
 CA FLW Inc Costa Mesa.....714-751-7512
 CA Alfred Barauk Co Palo Alto.....415-327-7711
 CT Douglas Lee Assoc Old Saybrook.....203-388-0370
 FL AMJ Equipment Corp Lakeland.....813-646-1487
 GA FLW SE Marietta.....404-424-1731

IN	RDP Corp Indpls.	317-243-8788
MA	Douglas Lee Assoc Harvard.	617-456-8726
MI	RDP Corp Charlotte.	617-543-6212
MI	Synergic Engr Corp Eden Prairie.	612-941-8906
NJ	J & B Assoc Ho-Ho-Kus.	201-447-0126
NC	SPK Instrumentation Charlotte.	704-535-2345
OH	RDP Corp Dayton.	513-253-6175
OR	McLaren Inc Portland.	503-297-2248
PA	Roberts Eng Sales Co Radnor.	215-688-6525
TX	Scientific Sales Co Richardson.	214-231-6541
VA	Advance Control Equip Richmond.	804-264-7100
WA	McLaren Inc Bellevue.	206-454-3400

ROBINSON NUGENT INC 800
E EIGHTH ST NEW ALBANY
IN 47150 TWX 810-540-4082 812-945-0211
J GRIBBINS-SOCKETS EMP 500 ENG 6
OVER \$10,000K

AL	EMA Huntsville.	205-536-3044
CA	Robinson Nugent Palo Alto.	415-424-1177
CA	Robinson Nugent Burbank.	818-841-4041
CT	Robinson Nugent Madison.	203-245-8909
FL	Conley & Assoc Oviedo.	305-365-3283
GA	Robinson Nugent Duluth.	404-446-1824
IL	Robinson Nugent Mundelein.	312-949-0600
IN	Marketing Engineers Indpls.	317-872-5665
MA	John E Boeing Co Lexington.	617-862-2500
MS	PSI Mnlps.	612-944-8545
MS	S L Welsh & Assoc Jackson.	601-932-5534
NY	Nycorn Inc East Syracuse.	315-437-8343
NC	EMA Raleigh.	919-847-8800
OR	Vantage Corp Tigard.	503-620-3280
SC	EMA Greenville.	803-233-4637
TX	Robinson Nugent Dallas.	214-241-1738
WA	Vantage Bellevue.	206-455-3460
FR	Weber Elctns Markham ON.	416-475-8500
FR	Weber Elctns Ottawa ON.	612-728-2746
FR	Weber Elctns Calgary AB.	403-264-5963

DISTRIBUTORS

AL	Schweber Huntsville.	205-882-2200
AZ	CETEC Phoenix.	602-272-7951
AZ	Acacia Sales Tempe.	602-894-2874
AZ	Bell Industries Tempe.	602-966-7800
AZ	Harper SID Tempe.	602-967-1464
CA	CETEC Southgate.	213-773-6521
CA	Cypress/RPS Buena Park.	714-521-5230
CA	Zack Elect Palo Alto.	415-326-5432
CA	Schweber Elect Sacramento.	916-929-9732
CA	Acacia Sales Sunnyvale.	408-745-7200
CA	Sigma Electr San Diego.	714-565-2000
CA	Pyramid Fullerton.	714-773-0781
CA	Anthem Elect San Jose.	408-295-4200
CA	Prime Electro Manhattan Bch.	213-379-3642
CA	Diplomat Elect Chatsworth.	213-700-8700
CA	Future Elect San Jose.	408-945-9100
CA	Harper SID Compton.	213-979-5090
CA	Pyramid Elect Santa Clara.	408-727-9810
CO	Acacia Sales Lakewood.	303-232-2882
CO	Electronic Parts Denver.	303-744-1992
CT	Diplomat Elect Danbury.	203-797-9674
CT	Schweber Elect Danbury.	203-792-3500
CT	Almo Elect Hamden.	203-288-6556
FL	Hammond Elect Orlando.	305-849-6060
FL	Diplomat Elect Clearwater.	813-443-4514
FL	Schweber Elect Altamonte Sprgs.	305-331-7555
GA	Diplomat Elect Norcross.	404-449-4133
GA	Schweber Elect Atlanta.	404-449-9170
IL	Schweber Elk Grove.	312-364-3750
IL	NEP Chicago.	312-625-8400
IL	Classic Components Northbrook.	312-272-9650
IL	Diplomat Elect Bensenville.	312-595-1000
IN	Bell Ind/Graham Div Indpls.	317-634-8202
IN	Hutch & Son Evansville.	812-425-7201
IA	Advent Elec Cedar Rapids.	319-363-0221
IA	Schweber Elect Cedar Rapids.	319-373-1417
KS	Schweber Elect Overland Pk.	913-492-2922
KY	P I Burkes Co Louisville.	502-589-3960
MD	RESCO Baltimore.	301-529-0500
MD	Diplomat Elect Columbia.	301-995-1226
MD	Almo Elect Gaithersburg.	301-670-0090
MD	Schweber Elect Gaithersburg.	301-840-5900
MA	Diplomat Elect Woburn.	617-935-6611
MA	Future Elect Westboro.	617-366-2400
MA	Almo Elect Canton.	617-821-1450
MA	Schweber Elect Bedford.	617-275-5100
MI	Schweber Elect Livonia.	313-525-8100
MI	SPEMCO St Clair Shores.	313-771-2700
MN	Schweber Elect Eden Prairie.	612-941-5280
MN	Voyager Elect Fridley.	612-571-7766
MO	Schweber Elect Earth City.	314-739-0526
MO	L-COMP Maryland Hts.	314-291-6224
NE	Scott Elect Sply Lincoln.	402-466-8221
NH	C & H Elect Hudson.	603-882-1133
NH	Schweber Elect Manchester.	603-625-2250
NJ	Diplomat/IPC Totowa.	201-785-1830
NJ	Schweber Elect Fairfield.	201-227-7880
NJ	Diplomat Cherry Hill.	609-751-0440
NM	Bell Indust Albuquerque.	505-292-2700
NY	CAR-LAC Bohemia.	516-567-4200
NY	Harrison Elec Farmingdale.	516-293-7990
NY	QAR Mt Vernon.	914-699-2224
NY	Summit Elect Rochester.	716-334-8110
NY	Schweber Elect Westbury.	516-334-7474
NY	Diplomat Liverpool.	315-652-5000
NY	Peerless Elect Lynbrook.	516-593-2121

NY	Cam/RPC Henrietta.	716-334-5600
NC	Hammond Elect Greenboro.	919-275-6391
NC	Schweber Elect Raleigh.	919-876-0000
OH	Schweber Elect Dayton.	513-439-1800
OH	Stotts Friedman Dayton.	513-298-5555
OH	Cam/RPC Cleveland.	216-461-4700
OK	Connectek Tulsa.	918-664-8812
OK	Schweber Elect Tulsa.	918-622-8000
OR	Radar Elec Portland.	503-232-3404
OR	Acacia Beaverton.	503-466-3377
OR	Zepher-Ragon Wilsonville.	503-682-2929
PA	Schweber Elect Horsham.	215-441-0600
PA	Almo Elect Phila.	215-698-4000
PA	Advacom McKean.	814-476-7774
PA	Cam/RPC Pittsburg.	412-782-3770
SC	Hammond Elect Greenville.	803-233-4121
SC	Dixie Elect Columbia.	803-779-5332
TN	Bluff City Elect Memphis.	901-345-9500
TX	Schweber Houston.	713-784-3600
TX	Allied Elect Ft Worth.	817-336-5401
TX	Connectek Austin.	512-835-0220
TX	Diplomat Elect Dallas.	214-980-1888
TX	Harper SID Irving.	214-621-0500
UT	Diplomat-Elect SLC.	801-486-4134
UT	Bell Industries SLC.	801-972-6969
VA	Virginia Radio Sply Charlottesville.	804-296-4184
WA	Radar Elec Seattle.	206-282-2511
WA	Zepher Elec Seattle.	206-241-1980
WA	Future Elect Bellevue.	206-881-8199
WA	Pyramid/Interface Kent.	206-872-5800
FR	E G Lomas Ottawa ON.	613-725-2177
FR	Semad Elect Markham ON.	416-475-3922
FR	Intek Elect Ltd Vancouver BC.	604-435-1777
FR	Varah's Edmonton AB.	403-461-2222
FR	Semad Montreal PQ.	514-636-4128
FR	Semad British Columbia.	604-438-2515

ROBISON ELECTRONICS INC BOX 8121
SAN LUIS OBISPO CA 93403-8121 805-544-8000
J ROBISON EMP 250 ENG 12 \$1,000-\$2,500K

ROBITECH INC 10 UPTON DR
WILMINGTON MA 01887 617-657-6143
P SURETTE EMP 30 ENG 4 \$1,000-\$2,500K

DISTRIBUTORS

MA	Minuteman Controls Co Wakefield.	617-245-9550
NY	Paul Hardman Co Mt Vernon.	914-664-6220
NY	Roessel & Co Rochester.	716-458-5560
NC	Carolina Components Charlotte.	704-588-6101

ROBOT INDUSTRIES INC 7041
ORCHARD ST BOX 219 DEARBORN
MI 48126 313-846-2623
C KRAKE EMP 40 ENG 3 \$1,000-\$2,500K

ROBOT RESEARCH INC 7591
CONVOY CT SAN DIEGO CA 92111 619-279-9430
D SMITH EMP 40 ENG 2 \$1,000-\$2,500K
FL Coaxial Sys Assoc Tequesta 305-746-6626
IL Go Video Sales Lake Forest 312-295-6726
KY Bruce Dawson & Assoc Louisville 502-456-6666
WA DES Sales Seattle 206-323-7023

DISTRIBUTORS

CA	SLK/Tech Rep Hayward.	415-785-4531
CA	Marketing Specialists Chatsworth.	213-341-1471
CO	Systems Mktg Svcs Evergreen.	303-674-3390
GA	Vihon Assoc Atlanta.	404-457-2970
MD	Electronic Meeting Svcs Clinton.	301-868-8080
MA	F M Valenti Assoc Nahant.	617-592-5300
MI	Burcaw Co Detroit.	313-533-7700
NY	Irving Langbaum New City.	914-634-1141
OH	Avcom Inc No Olmsted.	216-777-2060
TX	Les Vihon Assoc Tullahoma.	615-455-5767
TX	Crockett Sales Co Dallas.	214-350-3377

ROCHESTER ELECTRONICS INC
2 PLEASURE ISLAND RD
WAKEFIELD MA 01880 TWX 759499 617-245-2941
P GERRISH EMP 7

ROCHESTER INSTRUMENT SYSTEMS INC
255 N UNION ST ROCHESTER
NY 14605 TWX 978457 716-263-7700
E WILLEMS EMP 500 ENG 50 OVER \$10,000K

AL	Process Specialties Birmingham.	205-969-1750
AK	Industrial Instr Service Kenai.	907-283-4230
AZ	Utility Prods Phoenix.	602-840-3455
AR	J Williams Engrg Arkadelphia.	501-246-9252
CA	John Lane & Assoc Fullerton.	714-680-4424
CA	Sabre Controls Oakland.	415-444-0635
CO	Process Controls Lakewood.	303-232-4996
CT	Applied Measurements Hamden.	203-288-5228
FL	Vickers Sales Corp Lorida.	813-655-1432
GA	Rochester Inst Sys Roswell.	404-557-2176
HI	Process Valve & Control Honolulu.	808-834-7675
IL	Rochester Inst Sys Olympia Fields.	312-957-1440
IN	A B Young Co Indpls.	317-255-5416
KS	Matney & Co Lenexa.	913-888-6900
KY	Rochester Instr Sys Louisville.	502-893-3628
LA	Lu Mac Inc Baton Rouge.	504-924-7340
ME	Kontrol Inc Waterville.	207-873-7741
MD	Flow Controls Baltimore.	301-882-0200

MA	Applied Measurements Acton.	617-263-2768
MI	Automatic Controls Detroit.	313-533-8890
MN	Electrical Jobbers Equip Mnlps.	612-721-4815
MO	C M Tilley Co Maryland Hts.	314-878-3353
NE	Matney & Co Omaha.	402-331-7330
NJ	Rochester Instr Sys Woodbridge.	201-572-9311
NM	Utility Projects Albuquerque.	505-822-0292
NY	Davco Systems Grand Island.	716-773-6600
NC	McC-Tric Controls Charlotte.	704-376-8555
OH	King Assoc Loveland.	513-683-6000
OK	Matney & Co Tulsa.	918-832-1877
OR	Branom Instrument Co Portland.	503-283-2555
PA	Dynamic Controls Pittsburgh.	412-922-7771
TN	Geo C Paris Co Knoxville.	615-966-2141
TX	Rochester Instr Sys Houston.	713-974-6343
UT	Process Engineered Products SLC.	801-292-5020
VT	Applied Measurements Arlington.	802-375-9537
VA	Process Specialties Salem.	703-345-0466
WA	Branom Instr Seattle.	206-762-6050
WV	Skaif Engrg Co Charleston.	304-925-1143
WI	Professional Control Corp Germantown.	414-251-3000
WY	Process Controls Casper.	307-266-4631
FR	Rochester Instr Sys of Canada Toronto ON.	416-233-6218

ROCKBESTOS CO DRAWER 1102
NEW HAVEN CT 06504 TWX 956042 203-772-2250
A DEAN EMP 500 ENG 15 OVER \$10,000K

CA	H G Jones Sherman Oaks.	213-872-1610
CA	R Franek Danville.	415-838-8634
GA	R W Shead Atlanta.	404-451-3737
IL	M E Schmidt Naperville.	312-357-7985
MA	W Henderson Marlboro.	617-480-0643
MO	L Harper Clayton.	314-721-2498
NJ	C Gaynor Avenel.	201-381-2170
OH	R Boudon Rocky River.	216-333-8640
PA	L Phillips Pittsburgh.	412-343-5022
TX	J White Houston.	713-590-4075
TX	A Dean Dallas.	214-484-1078

ROCKLAND INSULATED WIRE
& CABLE CO 87 BROADWAY
HAVERSTRAW NY 10927 914-429-3103
E KIGLER

ROCKLAND SCIENTIFIC INC
10 VOLVO DR ROCKLEIGH
NJ 07647 TWX 710-991-9852 201-767-7900
A PINI EMP 50 ENG 7

AZ	Barnhill Assoc Scottsdale.	602-947-7841
CA	Beckrep Inc Valeyermo.	805-261-3333
CA	Synergistic Sales San Jose.	408-292-6573
CO	Barnhill Assoc Englewood.	303-799-6999
CT	Pat Jenks Assoc Wallingford.	203-265-9939
IL	Dytec/Central Arlington Hts.	312-394-3380
MA	Pat Jenks Assoc Woburn.	617-938-0488
MN	Dytec/North St Paul.	612-645-5816
MO	Dytec/South Maryland Hts.	314-569-2990
NY	NACO N Syracuse.	315-699-2651
NY	Scientific Devices Teaneck.	201-837-1004
OH	WKM Assoc Dayton.	513-434-7500
TX	Barnhill Assoc Houston.	713-688-9971
VA	Creative Mktg Assoc McLean.	703-442-9100

ROCKWELL ENGINEERING CO
2125 E 45 ST INDIANAPOLIS
IN 46205 317-251-9453
EMP 7 ENG 1 \$250-\$500K

ROCKWELL INTL/COLLINS MECHANICAL
FILTERS 2990 AIRWAY AVE
COSTA MESA CA 92626 714-641-5311
TWX 685532
R JOHNSON
ADV PG 187

ROCKWELL INTL CORP COMMERCIAL
ELCTNS OPERS 1200 N ALMA RD
RICHARDSON TX 75081
TWX 214-867-4709 214-996-5000
J BROWN EMP 18000

RODALE ELECTRONICS CORP
603 CHESTNUT ST GARDEN CITY
NY 11530 TWX 510-222-0274 516-222-0050
J CLEMENT EMP 140 ENG 20 OVER \$10,000K

RODIME INC 901 BROKEN SOUND
PKWY NW BOCA RATON FL 33431
TWX 810-848-0112 714-770-3085
G REA EMP 350 OVER \$10,000K

CA	Rodime Inc Mission Viejo.	714-770-3085
GA	Rodime Inc Atlanta.	404-980-9622
TX	Rodime Inc Austin.	512-453-5135

DISTRIBUTORS

AZ	Anthem Electronics Tempe.	602-244-0900
CA	Anthem Electronics San Jose.	408-946-8000
CA	Anthem Electronics San Diego.	619-279-5200
CA	Anthem Systems Scotts Valley.	408-438-1900
CO	Anthem Electronics Englewood.	303-790-4500
CT	Lionex Corp Meriden.	203-237-2282
MD	Lionex Corp Columbia.	301-964-0040
MA	Lionex Corp Wilmington.	617-657-5170
NJ	Lionex Corp Fairfield.	201-227-7960

For
**ROBINSON
NUGENT, INC.**

Make a Peerless Decision



Peerless
Peerless Radio Corporation



19 Wilbur Street, Lynbrook, L.I., N.Y. 11563
(516) 593-2121, in NYC (718) 523-3456
In New Jersey (201) 592-0351, 0358, 0364
Cable: PEERADIO TWX: 510-225-8422
Call Toll Free 800-645-2268

Peerless Radio Corporation — Florida
3161 S.W. 14th Ct., Pompano Beach, Florida 33069
(305) 973-4141
TWX: 510-956-3118
Call Toll Free 800-327-4993 • In Florida 800-432-8899

NY Lionex Corp Hauppauge.....516-273-1660
OK Quality Components Tulsa.....918-664-8812
OR Anthem Electronics Lake Oswego.....503-684-2661
PA Lionex Corp Horsham.....215-443-5150
TX Quality Components Addison.....214-733-4300
TX Quality Components Austin.....512-835-0220
UT Anthem Electronics SLC.....801-973-8555
WA Anthem Electronics Redmond.....206-881-0850

ROD-L ELECTRONICS 1098
HAMILTON CT MENLO PARK
CA 94025 TWX 296210.....415-322-0711
V VARGO

RODON PRODUCTS INC 9265
BISHOP PL WESTMINSTER
CA 92683.....714-898-3528
R BERTELS JR EMP 28 ENG 2 \$500-\$1,000K

ROEAN INDUSTRIES INC 12970
BRANFORD PACOIMA CA 91331
TWX 758630.....818-767-7047
S MORSE EMP 10 ENG 2 \$500-\$1,000K
CA Kanhettels Dispensing Systems
Riverside.....714-638-2204
TX Trans Global Mktg Ft Worth.....817-292-7865
WA Atlas Packing & Rubber Seattle.....206-623-4697

DISTRIBUTORS
CA Chemical Systems Santa Fe Spgs.....213-494-4030
CA Olson Assoc Santa Clara.....408-727-1754
FL Mavidon Enterprises Stuart.....305-286-8951
IL Adhesive Systems Inc Algonquin.....312-658-4558
MA Ashby-Cross Co Topsfield.....617-887-2887

ROEDERSTEIN ELECTRONICS INC
2100 W FRONT ST BOX 5378
STATESVILLE NC 28677
TWX 802-106.....704-872-8101
F ACUFF EMP 54 ENG 1 \$5,000-\$10,000K

DISTRIBUTORS
CA Component Service West Covina.....818-960-4761
CA Capacitors Unltd San Jose.....408-946-7676
CA Pyramid Elect Fullerton.....714-773-0781
CA Pyramid Elect Santa Clara.....408-727-9810
CO Industrial Elect Englewood.....303-694-9444
FL NRC Elect Ft Lauderdale.....305-772-4500
IL Stettner Central Franklin Park.....312-671-4208
MD Current Components Middleton.....301-473-5336
MA T L C Burlington.....617-273-0140
MA Atlantic Components Waltham.....617-890-4554
NJ B & R Elect Garfield.....201-470-0700
NJ Brothers Elect East Brunswick.....201-238-2200
NJ Tonar Industries Rockaway.....201-586-9000
NY Pride Elect Farmingdale.....516-293-4020
PA Century Elect Norristown.....215-631-5400
UT Standard Supply SLC.....801-486-3371
WA Pyramid Elect Kent.....206-872-5800
FR Votron Elect Concord ON.....416-669-9870

ROGAN CORP 3455 WOODHEAD DR
NORTHBROOK IL 60062
TWX 910-686-0008.....312-498-2300
D PELLETIER EMP 100 ENG 3

DISTRIBUTORS
AL Component Dist Huntsville.....205-883-7501
CA Cazco Sales Torrance.....213-539-9664
IL Classic Components Northbrook.....312-272-9650
MA Greene-Shaw Newton.....617-969-8900
MI RS Elect Livonia.....313-525-1155
NH Brevan Electronics Nashua.....603-889-7230
NJ State Elect E Hanover.....201-887-2550
NJ Mid-Atlantic Bellmawr.....609-931-5305
NY Kintronics Yonkers.....914-668-9882
OH Electro Supply Dayton.....513-299-5020
TX Southwest Elec Stafford.....713-491-4900
FR Future Elect Pte Claire PQ.....514-694-7710

ROGERS CORP ONE TECHNOLOGY DR
ROGERS CT 06263
TWX 710-448-0047.....203-774-9605
P ANDERSON EMP 2500 ENG 150 OVER \$10,000K
AZ Rogers Corp Tempe.....602-839-5478
CA Rogers Corp Corona.....714-734-5881
CA Rogers Corp San Jose.....408-947-7797
CO Rogers Corp Colorado Springs.....303-599-0617
CT Rogers Corp Norwich.....203-376-0276
FL Rogers Corp Melbourne Bch.....305-725-6105
IL Rogers Corp Hazel Crest.....312-798-5800
MI Rogers Corp Livonia.....313-427-8282
MN Rogers Corp Northfield.....507-663-1050
NH Rogers Corp Londonderry.....603-434-5358
NJ Rogers Corp Springfield.....201-944-7777
NY Rogers Corp Rochester.....714-454-6520
NY Rogers Corp Poughkeepsie.....914-485-6763
OH Rogers Corp Shaker Hts.....216-283-5486
PA Rogers Corp Hermitage.....412-983-3742
SC Rogers Corp Rock Hill.....803-366-2952
TX Rogers Corp Round Rock.....512-244-3074
WA Rogers Corp Roanoke.....703-774-8478
WA Rogers Corp Seattle.....206-575-4175

DISTRIBUTORS
MA A W Mayer Billerica.....617-229-2255

ROGERS CORP ATD 5259 MINOLA DR
LITHONIA GA 30058
TWX 710-440-0600.....404-981-9830
J HENSEL EMP 150 ENG 10
FR D Savery Matthews.....704-365-0174
AZ M Issue Tempe.....602-839-5478
CA R Greenman San Jose.....408-947-7797
CA A Riel Poway.....619-487-1065
CO L Bradley Colo Springs.....303-599-0617
CT G Jessel Norwich.....203-376-0276
FL P Pratt Melbourne Bch.....305-725-6105
GA L Hansen Norcross.....404-938-7743
IL J Menees Hazel Crest.....312-798-5800

KS W Kelly Northfield MN.....507-663-1050
KY G Harris Louisville.....502-244-9163
MI J Allan Livonia.....313-427-8228
NH B Coyne Londonderry.....603-434-5358
NJ S Wellan Springfield.....201-944-7777
NY V Potter Poughkeepsie.....914-485-6763
NY D Bangs Rochester.....716-454-6520
NC D Savery Matthews.....704-365-0174
OH J Forte Beaver Creek.....513-426-8993
PA T Slesman Holtwood.....717-284-4328
TX D Duke Round Rock.....512-255-6771
VA L Rodrigue Lynchburg.....804-384-9517
WA L Keen Seattle.....206-575-4175

ROHDE & SCHWARZ GMBH & CO KG
POSTFACH 801469 MUENCHEN
W GERMANY TWX 052370320.....089-41290
J BARDEHLE EMP 4500 ENG 1000 OVER \$10,000K
AZ Mar Tech Assoc Tempe.....602-968-4944
CA T Louis Snitzer Los Angeles.....213-836-6170
CA T Louis Snitzer Cupertino.....408-257-8333
CO Herb Bass Assoc Boulder.....303-530-7509
CT Scientific Devices NE Mt Carmel.....203-248-9361
FL E G Holmes & Assoc Orlando.....305-894-8901
GA E G Holmes & Assoc Atlanta.....404-451-6161
IL Berndt Assoc Chicago.....312-283-0713
IN Berndt Assoc Carmel.....317-844-0114
IA Palatine Eng & Sales Cedar Rapids.....319-365-8071
KS Palatine Eng & Sales Mission.....913-831-0555
MD Eastern Instrumentation Corp Burtonsville.....301-792-7039
MA Scientific Devices NE Waltham.....617-890-2252
MN Berndt Assoc Mpls.....612-546-2521
MO Palatine Eng & Sales Hazelwood.....314-839-0800
NJ E F Tech Sales West Orange.....201-371-7203
NM IMEC Albuquerque.....505-883-9010
NY E F Tech Sales Huntington Sta.....516-549-1818
NY Ossmann Instr Syracuse.....315-437-7052
NC E G Holmes & Assoc Cary.....919-469-8801
OH Bill Teplitz Assoc Cleveland.....216-439-3265
PA Electronic Mktg Assoc Plymouth Mtg.....215-828-7400
TX Scientific Devices SW Richardson.....214-231-8106
TX Technical Concepts San Antonio.....512-699-6345
UT Herb Bass Assoc Bountiful.....801-295-7100
WA Brimberg Sales Inc Wheaton.....301-946-2670
WI Berndt Assoc Milwaukee.....414-545-8400

ROLA CO 21010 MILES PKWY
CLEVELAND OH 44128
TWX 810-422-2228.....216-475-9200
D SCHMIDT EMP 800 ENG 10 OVER \$10,000K

ROL-A-CHART BOX 1810 DIAMOND
SPRINGS CA 95619.....916-622-2437
B HILLMER EMP 9 ENG 1 \$250-\$500K

ROLM CORP-MIL-SPEC COMPUTERS
1 RIVER OAKS PL SAN JOSE
CA 95134 TWX 910-338-7350.....408-942-8000
M CUSICK EMP 1000 ENG 55 OVER \$10,000K
CA J Samuelson Irvine.....714-549-3200
MA P Travers Lexington.....617-861-0730
MI R Duncan Farmington.....313-353-4550
NY J O'Brien White Plains.....914-694-4900
OK R Terry Tulsa.....918-627-2009
TX J Bradley Plano.....214-596-7399
VA R Petri Annandale.....703-750-0310

RONSON METALS CORP 55 MANUFACTURERS
PL NEWARK NJ 07105.....201-589-1380
W OTIS EMP 70 ENG 5

ROPER WHITNEY CO 2833 HUFFMAN
BLVD ROCKFORD IL 61103
TWX 25-7465.....815-962-3011
EMP 160 ENG 8

ROSE ENCLOSURES SYSTEMS INC
12200 PARKLAWN DR ROCKVILLE
MD 20852.....301-984-3770

ROSS CO MILTON 511 SECOND
ST PIKE SOUTHAMPTON PA 18966
TWX 510-667-1702.....215-355-0200
M ROSS EMP 150 ENG 3
TX Air-Quip Sales Richardson.....214-271-2624

DISTRIBUTORS
CA Force Ingelwood.....214-234-3285
NY Summit Buffalo.....716-884-3450
OH Summit Dayton.....513-434-7551

ROSS ENGINEERING CORP 540
WESTCHESTER DR CAMPBELL
CA 95008 TWX 910 590 8033.....408-377-4621
H ROSS EMP 45 ENG 5 \$1,000-\$2,500K

ROSS LABORATORIES INC 3138
FAIRVIEW AVE E SEATTLE
WA 98102.....206-324-3950
H POLLACK

ROSTONE BOX 7497 LAFAYETTE
IN 47903 TWX 810 342 1887.....317-474-2421
EMP 550 ENG 10

FL Blair Engrg Inc Fern Park.....305-834-1244
NY Brandon Assoc Canandaigua.....716-394-6080
NY Brandon Assoc Liverpool.....315-652-3954
NC Blair Engrg Inc Greensboro.....919-292-8200
OK Blair Engrg Inc Tulsa.....918-622-3100
PA Brandon Assoc Norristown.....215-278-0500
TX Blair Engrg Inc Dallas.....214-241-5655
TX Blair Engrg Inc Austin.....512-458-3107
TX Blair Engrg Inc Houston.....713-973-8800
FR Reimech Mfg Ltd Elmira ON.....519-664-2766

ROTEK INSTRUMENT CORP 390
MAIN ST WALTHAM MA 02154.....617-899-4611
E WARNER
AL Kemp Instr Inc Huntsville.....205-837-4304
CA Patterson Control Sys Cupertino.....408-973-1050
CA Brooks-Moore & Assoc Santa Ana.....714-682-2052
FL Periphix Teqspec Palm Harbor.....813-785-2276
IL PVA Co Burr Ridge.....312-655-3355
KS Aero-Hill Sales Wichita.....316-682-2052
MA EML Assoc Randolph.....617-341-0781
MN Hi-Lite Sales Mpls.....612-861-6051
NJ J M R Sales 3145 Bordentown Av Parlin.....716-334-2445
NY Scientific Dev N Y Rochester.....919-722-9671
NC Radco Co Winston-Salem.....214-911-7870
TX True Technology Co Dallas.....703-670-6962
VA Electra-Tech Inc Dumfries.....206-523-7888
WA Eicher-Richards Co Seattle.....206-523-7888

ROTRON INC HASBROUCK LANE
WOODSTOCK NY 12498
TWX 510-247-9033.....914-679-2401
EMP 1000 ENG 45 OVER \$10,000K
AZ Morrow & Assoc Scottsdale.....602-482-1800
CA EG & G Rotron San Jose.....408-365-0556
CO Lange Sales Littleton.....303-795-3800
FL G F Bohman Assoc Apopka.....305-886-1882
IL Sumer Inc Rolling Meadows.....312-991-8500
IN F J Campisano Co Ft Wayne.....219-747-2633
IA S & O Sales Cedar Rapids.....319-393-1845
MD EG & G Rotron Baltimore.....301-377-5195
MA Circuit Sales Co Lexington.....617-861-0567
MI W R Hummon & Assoc Farmington Hills.....313-474-0662
MN G-H Sales Mendota Hgts.....612-454-3086
MO Centech Inc Raytown.....816-358-8100
NJ EG & G Rotron Neshanic Sta.....201-369-5354
NY EG & G Rotron Melville.....516-293-7000
OH Components Inc Cleveland.....216-243-9200
OK Ammon & Rizos Co Tulsa.....918-663-8788
OR Evergreen Mktg Beaverton.....503-643-8020
TN Mil Spec Co Nashville.....615-367-2427
TX Ammon & Rizos Co Richardson.....214-644-5591
UT Lange Sales SLC.....801-487-0843
WA Evergreen Mktg Group Seattle.....206-633-3160
WI Sumer Inc Brookfield.....414-784-6641
FR PQ.....514-731-9617
FR Cartwright/Southall Hamilton ON.....416-528-0294

ROWE CO L L 66 HOLTON ST WOBURN
MA 01801 TWX 94-0509.....617-729-7860
B DEVLIN EMP 60 ENG 7 \$5,000-\$10,000K
FL MAS Assoc.....305-291-7372
MA J McCarthy Assoc.....617-383-0720
VA Systems Technology Inc.....703-379-9209
WA Doland Co.....206-454-4952

ROWE INDUSTRIES INC BOX 6877
TOLEDO OH 43612
TWX 810-422-1734.....419-729-9761
D MANG EMP 89 ENG 5 OVER \$10,000K
CA Val C Robinson San Jose.....415-969-4831
FL EIR Inc Maitland.....305-830-9600
KS Thunderbird Sales Wichita.....316-684-3940
MD R A Wafer Assoc Baltimore.....301-744-1133
MA Underwood Sls Corp Lowell.....617-256-8191
MN Kits Co Hopkins.....612-933-1888
MO Thunderbird Sales Maryland Hts.....314-567-6488
NM Ron-Tek Albuquerque.....505-299-4124
NC Dula Assoc Winston-Salem.....919-768-7166

ROXTER CORP 10-11 40TH AVE
LONG ISLAND CITY NY 11101.....212-392-5060
H SCIAN EMP 75 ENG 4 \$1,000-\$2,500K

DISTRIBUTORS
AZ Jensen Tools & Alloys Phoenix.....602-968-6241
AZ Markson Science Phoenix.....602-894-5317
IL Allied Elect Elgin.....312-697-8200
IL Cole Farmer Inst Niles.....312-647-7600
PA Techni-Tool Inc Plymouth Mtg.....215-825-4990
PA Henry Mann Inc Huntingdon Valley.....215-355-7200
TX Allied Elect Ft Worth.....817-336-5401

ROYAL ELECTRIC DIV FL INDUS INC
95 GRAND AVE PAWTUCKET
RI 02862 TWX 927733.....401-722-8600
J MCSHANE EMP 700 ENG 15 OVER \$10,000K
AZ Desert Cable & Eng Co Phoenix.....602-253-1141
CA H & J Sales Co So San Fran.....415-873-6750
CO Steve O'Kane Assoc Englewood.....303-762-1600
CT Harby Assoc Inc Northford.....203-484-0475
FL Action Elec Sales Miami.....305-592-7340
GA Bishop & Brogdon Atlanta.....404-522-8124
IL Hanke Co Inc Elk Grove Vlg.....312-593-8500
IN Giles Agency Indpls.....317-253-0910
IA Dick Bray Elec Sales Co Olive.....515-223-6088
LA United States Assoc New Orleans.....504-733-8711
MA Rudolph & Co Boston.....617-268-2420
MI McDonough & Assoc Livonia.....313-425-3500
NJ R B Harrison Assoc Passaic.....201-373-0850
NY Haines Sales Corp E Syracuse.....315-477-7227
NC E F Lombardi Co Charlotte.....704-334-1637
OH Hasselbach & Assoc Cincinnati.....513-871-7600
OR Cascade Western Reps Portland.....503-238-8800
PA Jos E Biben Sales Corp Phila.....215-985-9400
TN Matthews & Parks Inc Nashville.....615-244-7070
TX J D Martin Co Irving.....214-438-4202
WA Jack Hozack Inc Seattle.....206-762-6760

ROYEL SOLDERING SYSTEMS
1736 STANDARD AVE GLENDALE
CA 91201 TWX 910-497-4782.....213-245-1077
M GORHAM EMP 25 ENG 2

RTE DELTEC CORP 2727 KURTZ ST
SAN DIEGO CA 92110
TWX 910-335-1241.....619-291-4211
C PRICE EMP 175 ENG 15 OVER \$10,000K
AL F-M Assoc Huntsville.....205-882-0689

AK	Air Tek Inc Soldotna	907-262-5937
CA	Lee/Allan Assoc Milpitas	408-946-8300
CA	Failsafe Power Corp Vista	619-726-0980
CO	Regional Mktg Group Englewood	303-761-5763
CT	Power Conversion Sys North Haven	203-281-7270
FL	FM Assoc Orlando	305-851-5710
GA	FM Assoc Ltd Atlanta	404-446-0033
HI	Hawaiian Ind Sales Honolulu	808-533-4232
IL	Dytec/Central Arlington Hts	312-394-3380
IN	Dytec/Central Indpls	317-247-1316
KS	Dytec/South Lenexa	913-888-0215
LA	Lynn Elliott Co Baton Rouge	504-291-3306
MA	Power Conversion Sys Wellesley	617-235-7884
MI	WKM Assoc Madison Hts	313-588-2300
MO	JR Assoc Golden Valley	612-546-4110
MO	Dytec/South Maryland Hts	314-569-2990
NH	Power Conversion Sys Londonderry	603-434-2371
NJ	SDM Repls Lodi	201-368-0125
NY	SDM Repls Rochester	716-247-8770
NC	FM Assoc Ramseur	919-824-2196
OH	WKM Assoc Dayton	513-434-7500
OH	WKM Assoc Independence	216-524-5930
OK	Lynn Elliott Co Tulsa	918-252-5975
PA	WKM Assoc Pittsburgh	412-892-2953
TX	Lynn Elliott Co Missouri City	713-499-1571
WA	SJI Corp Seattle	206-763-8981
WI	Dytec/Central Elm Grove	414-784-9686
FR	Atelco Scarborough ON	416-497-2208

RTRON CORP 7324 LAWNDALE SKOKIE
IL 60076 TWX 910-223-8100 312-679-7180
ENG 2

RTS SYSTEMS INC 1100 W
CHESTNUT ST BURBANK CA 91506
TWX 9104-84987 818-840-7119
S HARRISON EMP 60 ENG 3 \$2,500-\$5,000K

RUBIN ENGINEERING CO 900
WOODVIEW DR COATESVILLE
PA 19320 215-383-6842
S RUBIN EMP 4 ENG 1 \$100-\$250K

RUGID COMPUTER BOX 60741
SACRAMENTO CA 95860
L THOMPSON EMP 15 ENG 2 UP TO \$100K

RUSCO ELECTRONIC SYSTEMS
1840 VICTORY BLVD GLENDALE
CA 91201-1005 TWX 696318 818-240-2540
P BLACK EMP 326 ENG 44

CA	Rusco San Mateo	415-570-5222
CA	Rusco Tustin	714-832-1416
CO	Rusco Aurora	303-696-9380
CT	Rusco Glastonbury	203-633-8379
FL	Rusco Tampa	813-879-3263
GA	Rusco Atlanta	404-325-1025
IL	Rusco Elmhurst	312-833-0720
IN	Rusco Indpls	317-247-0877
LA	Rusco Kenner	504-469-7932
MA	Rusco Foxboro	617-543-4891
MI	Rusco Farmington Hills	313-553-9320
MN	Rusco Eden Prairie	612-944-8510
MO	Rusco St Louis	314-991-3349
NJ	Rusco Paramus	201-599-0717
NC	Rusco Charlotte	704-535-4120
OH	Rusco Rocky River	216-333-5102
PA	Rusco Phila	215-331-5313
TX	Rusco Nashville	615-327-2207
TN	Rusco Houston	713-777-5254
VA	Rusco Arlington	703-892-1400

RUSSELL BURDSALL & WARD CORP
4851 VAN EPPS RD CLEVELAND
OH 44131 TWX 810-427-2245 216-861-8250
M JUSTICE EMP 1700 ENG 10 OVER \$10,000K

AZ RB & W Fastening Svc Ctr Phoenix 602-437-0138
AR Bosco Fastening Svc Ctr
Little Rock 501-562-0322

CA RB & W Fastening Svc Ctr
City of Commerce 213-928-1321

CO Bosco Fastening Svc Ctr Denver 303-287-8800
IL Fastener House Elk Grove Vlg 312-766-9550

IN Fastener House Fort Wayne 219-484-0702
KS Bosco Fastening Svc Ctr Wichita 316-942-9912

MI Fastener House Livonia 313-422-0338
MO Bosco Fastening Svc Ctr KC 816-483-9700

NE Bosco Fastening Svc Ctr Omaha 402-592-0341
NM Bosco Fastening Svc Ctr Albuquerque 505-883-7310

NY The Fastener House Rochester 716-436-2910
NY The Fastener House Jamestown 716-665-4700

OH The Fastener House Cleveland 216-861-8250
OK Bosco Fastening Svc Ctr
Okla City 405-235-9633

OR RB & W Fastening Svc Ctr Tigard 503-639-8846
PA Fastener House Pittsburgh 412-787-5880

TN Bosco Fastening Svc Ctr Memphis 901-396-7420
TX Bosco Fastening Svc Ctr
Grand Prairie 214-988-9019

UT RB & W Fastening Svc Ctr SLC 801-486-7131
WA RB & W Fastening Svc Ctr Seattle 206-575-0334

RUSSELL INDUSTRIES INC
3000 LAWSOON BLVD OCEANSIDE
NY 11572 516-536-5000
H HUSSELL

RUTHERFORD RESEARCH CO BOX 249
RUTHERFORD NJ 07070 201-933-2091
A BLANCK EMP 6 ENG 1 UP TO \$100K

RVS ELECTRONICS INC BOX 87
CIRCLEVILLE NY 10919
TWX 802778 914-342-3199
R SCALA EMP 10 ENG 2 \$250-\$500K

RYAN INTERNATIONAL CORP
4800 EVANSWOOD DR COLUMBUS
OH 43229 614-885-3303
R RYAN EMP 30 ENG 2 \$500-\$1,000K

RYCOM INSTRUMENTS 9351 E 59TH ST
RAYTOWN MO 64133
TWX 910-771-2182 800-851-7347
C JASPER EMP 40 ENG 5 \$500-\$1,000K

CA	E Hoin San Carlos	415-592-6401
CO	Ranniger Systems Arvada	303-424-2010
DC	Instrucom Inc Washington	202-223-1759
FL	Commack Assoc St Petersburg	813-577-0400
ID	Alster Comm Boise	208-362-1272
IL	Kay Sales Elmhurst	312-279-3666
NY	Eastern Metro Assoc Plainview	516-931-1414
TX	Horizon Eng Sales Co Rowlett	800-527-1347
FR	Tele-Radio Systems Ltd Woodbridge ON	416-851-2231

DISTRIBUTORS
ND Dakota Elec Supply Fargo 701-237-9440
TN Power & Tel Supply Memphis 901-324-6118

RYT INDUSTRIES 336 MATHEW ST
SANTA CLARA CA 95050
TWX 910-338-0189 408-727-5750
E HENSPEGER EMP 30 ENG 6 \$2,500-\$5,000K
CA Blair Assoc Anaheim 714-220-1201
NY E-F Technical Sales Huntington
Station 516-549-1818

SABRETEC 16631 NOYES AVE IRVINE
CA 92714 TWX 678401 714-549-7350

SADA ELETTRONICA SPA 23 VIA POMA
PAVIA ITALY TWX 340842-1 382-4669 31
EMP 70 ENG 3 \$2,500-\$5,000K
ADV PG 127

SAES GETTERS/USA INC 1122
E CHEYENNE MTN BLVD COLORADO
SPRINGS CO 80906 TWX 45-4534 303-576-3200
T KELLEY EMP 20 ENG 5
ADV PG 88

SAFETRAN SYS CORP ELECTRONIC DIV
9271 ARROW HWY CUCAMONGA
CA 91730 TWX 910-581-3824 714-987-4673
R PETERS EMP 300 ENG 30 OVER \$10,000K

KY Safetran 7721 Nail Tpk Louisville
MN Safetran Sys Corp 4650 Main NE Mpls

SAFEMAY PRODUCTS INC 440
MIDDLEFIELD ST MIDDLETOWN
CT 06457 TWX 710-428-7225 203-346-6601
H HALL EMP 215 ENG 11

SAFT AMERICA INC 711 INDUSTRIAL
BLVD VALDOSTA GA 31601
TWX 810-786-5866 912-247-2331
EMP 1300 ENG 50 OVER \$10,000K

CA	Soft Los Angeles	818-884-6151
CA	Soft San Francisco	415-462-6868
CO	Soft Denver	303-740-7781
IL	Soft Chicago	312-991-6396
MD	Soft Baltimore	301-666-3200
MA	Soft Quincy	617-773-7980
MN	Soft Minneapolis	612-770-0082
NC	Soft Winston-Salem	919-765-6690
OH	Soft Columbus	216-861-1877
PA	Soft Philadelphia	215-831-9520
TX	Soft Plano	214-436-0757
FR	Soft Scarborough ON	416-298-7322

AZ	Electro Marketing Scottsdale	602-991-0110
CA	Energy Sales Min View	415-969-0800
CA	Mill Comm Dist Chatsworth	818-998-3111
CO	Industrial Electronics Englewood	303-694-9444
FL	Pro Battery Hialeah	305-944-8800
MA	A W Mayer Co Billerica	617-229-2255
MN	D C Battery Products Mpls	612-721-8547
NJ	Engineered Assemblies Clifton	201-340-0600
NY	TNR Technical Inc Farmingdale	516-249-3777
NC	Kirkman Elect Winston-Salem	919-722-9131
PA	Avex Elctns Corp Bensalem	215-638-3300
TN	Batteries Unltd Mt Juliet	615-754-8179
TX	Kent Electronics Houston	713-780-7770
VA	Perrott Engrg Labs Falls Church	703-532-0700

SAGE ENTERPRISES INC 254
POLARIS AVE MT VIEW CA 94043
TWX 296122 415-969-5111
S COCKRELL EMP 10 ENG 4 \$500-\$1,000K
AZ Sierra Tech Group Tempe 602-894-2335

CA	Cutlass Electronics Torrance	213-324-7360
CO	Sierra Tech Group Englewood	303-790-1700
FL	G R Y Assoc Lake Worth	305-585-3882
IL	D B Patterson Assoc Arlington Hts	312-398-3760
MA	Geder Assoc Reading	617-944-3105
MN	HEI-LITE Sales Mpls	612-861-6051
NJ	AMC Inc Basking Ridge	201-221-1515
NM	Sierra Tech Group Albuquerque	505-294-8408
TX	Eberts Elctn Sales Latexo	409-687-4342
WA	Richard Carr Assoc Federal Way	206-839-6334

SAGE LABORATORIES INC 3 HURON DR
NATICK MA 01760
TWX 710-346-0390 617-653-0844
S PEKUNCE EMP 40 ENG 6 \$5,000-\$10,000K

CA	Thorson West Mt View	415-964-9300
CO	Herb Bass Assoc Boulder	303-530-7500
CT	Meco Inc Cheshire	617-944-6666
FL	Electrocraft Inc Largo	813-530-4749
IL	Feller Assoc Northfield	312-446-8065
IA	Feller Assoc Cedar Rapids	319-364-0566
MD	CSDS Inc Laurel	301-490-3800
MA	Meco Inc Reading	617-944-6660
NJ	J Freid & Assoc Woodcliff Lake	201-391-6792
NY	F & F Metro Great Neck	516-482-4080
NY	NACO Elctns N Syracuse	315-699-2651
OR	Thorson Northwest Beaverton	503-644-5900
PA	Ron Mar Co Plymouth Meeting	215-825-2841
TX	Zeus Engrg Plano	214-423-2027
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DISTRIBUTORS		
CA	WBC Electro-Supply Torrance.....	213-328-6871
IL	OHM Elect Palatine.....	312-359-5500
IL	GBL Elect Elk Grove.....	312-593-3220
MA	A W Mayer Co Billerica.....	617-667-6900
NJ	Parts Masters Corp Pine Brook.....	201-227-7797
NY	Summit Dist Buffalo.....	716-887-2800
NY	Summit Dist Rochester.....	716-334-8110
OH	Stotts-Freidman Dayton.....	513-298-5555
OH	Hughes-Peters Inc Cincinnati.....	513-351-2000
TX	Wilkinson Bros Dallas.....	214-941-9963
TX	Quality Components Sugarland.....	713-491-2255
WA	Robt E Priebe Co Seattle.....	206-682-8242

SCHENCK TREBEL CORP 537 ACORN ST		
DEER PARK NY 11729 TWX 143131		516-242-4010
M SCHUPPENIENS EMP 130 ENG 15 OVER \$10,000K		
CA	Schenck Trebel Corp Santa Ana	714-540-8766
FL	Schenck Trebel Corp Coral Springs	305-752-2787
MI	Schenck Trebel Corp Pontiac	313-674-4802
TX	Schenck Trebel Corp The Woodlands	713-367-7232

SCHENECTADY CHEMICALS INC		
BOX 1046 SCHENECTADY		
	NY 12301 TWX 145-457.....	518-370-4200
J KEATING EMP 500 ENG 2		
CA	Advance Elec Sales Belmont	415-592-4550
GA	Electrical Insul Suppliers	
	Atlanta.....	404-355-1651
IL	M E Jackson Marengo	815-568-8701
IL	Complete Reading Elec Chicago.....	312-547-5400
IL	J J Glenn & Co Naperville.....	312-961-1902
NJ	HISCO/Newark So Plainfield.....	201-754-2929
OK	John H Cole Co Okla City.....	405-235-1761
PA	Earl B Beach Co Yeadon.....	215-622-2210

SCHONSTEDT INSTRUMENT CO 1775 WIEHLE AVE RESTON VA 22090 TWX 710-833-9880 703-471-1050 CA UPTON EMP 48 ENG 4 \$1,000-\$2,500K	
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SCHOTT CORP 1000 PARKERS LAKE RD
WAYZATA MN 55391
TWX 910-576-2964 612-475-1173
A SCHMITT EMP 200 ENG 6 OVER \$10,000K
ADV PG 345,495,505

CA	Horne Sales Palo Alto	415-494-6777
IL	Electronic-Comp Sales Arlington Hghts	312-577-3788
MA	Hatch Assoc Randolph	617-963-3306
MN	S & R Sales Mpls	612-559-3090

SCHOTT ELECTRONICS HERSHEY DR
ANSONIA CT 06401 203-736-2677
D DAVIS EMP 85 ENG 8 OVER \$10,000K

SCHRACK NORTH AMERICA INC		
3 WESTCHESTER PLAZA	ELMSFORD	
NY 10523		914-592-1305
Z NAGER EM 10 ENG 1	\$1,000-\$2,500K	
CA	Viking Sales Panorama	818-788-5501
CA	O'Reilly Elctn Assoc Livermore	415-443-5343
CO	Stratford Group Boulder	303-530-3194
CT	Vintech Manchester	203-646-3007
FL	J-R Controls Inc Tampa	813-961-9478
GA	Effective Mktg Force Atlanta	404-948-6023
IL	Chadra-Schilke & Assoc Wheaton	312-653-8126
IN	C C Electronics Indpls	317-255-1508
KS	K & M Sales Shawnee Mission	913-262-1444
MA	Bengal Assoc Randolph	617-961-4120
MN	TLC Controls Roseville	612-483-2226
NY	Jarms Electronic Melville	516-752-0404
NY	Pi'ronics Syracuse	315-455-7346
OR	Pacific Elec Sales Portland	503-235-3456

TX Kite Electronic Sales Irving 214-438-9336

DISTRIBUTORS		
AL	E S C Elect Supply Anchorage	907-274-0603
AZ	Capitol Elect Supply Phoenix	602-252-5897
CA	Distributor Specialist	
	Santa Monica	213-393-9666
CA	Master Distributors Santa Monica	213-452-1229
CT	Hatry Electronics New Haven	203-787-5921
CT	Park Distributors Norwalk	203-853-2010
DE	Aircraft Dover	302-674-9010
DC	Aircraft/Eagle Washington	202-269-2600
FL	A A Electric Lakeland	813-665-6941
FL	Leader Elect Tampa	813-870-3315
HI	Industrial Electronics Honolulu	808-533-6095
IL	Lodan Elect Arlington Hgts	800-323-5207
IN	Mar Electronics Indpls	317-875-4510
IN	Stansifer Radio Bloomington	812-336-6339
IA	Iowa Radio Sply Cedar Rapids	319-393-4510
LA	Ralphs Electronics Lafayette	
MD	PSI Beltsville	301-937-4960
MA	Emtel Norwood	617-769-9500
MI	Advance Wholesale Elect Flint	313-238-5611
MN	Chris Electronics New Brighton	612-631-2647
NJ	Relay Specialties Fair Lawn	201-797-3313
NJ	Pro Pac Plainfield	201-755-4940
NJ	Relay Specialties Fairlawn	201-797-3313
NY	Kintronic Mt Vernon	914-668-9882
NY	Rome Security Rome	315-336-0148
NY	Summit Distributors Buffalo	716-887-2800
NC	Control Design Supply Pineville	704-588-4410
OH	Rankin-Hauser Dayton	513-298-9823
OH	Carver Supply Inc Dayton	513-461-9673
OR	Amfac Electric Clackamas	503-657-3020
PA	Jan Industrial Philadelphia	215-922-1321
PA	E R Beers Bloomsburg	717-784-1607
TX	Ralph Industrial Houston	714-748-4902
TX	Rawlinson Electronics Dallas	214-741-1721
UT	Omega Electronics Provo	801-375-4664
VA	Radio Parts Distr Norfolk	804-461-8095
WI	A A Electric Cedarburg	414-377-7500
FR	Electromatic Comp Ltd St Laurent PQ	

SCHROFF INC 170 COMMERCE DR WARWICK RI 02886 TWX 952175		401-732-3770
T KENNEDY		
AL	CSR Electronics Huntsville	205-533-2444
AZ	Luscombe Engrg Scottsdale	602-949-9333
CA	Luscombe Engrg Campbell	408-370-2020
CA	Luscombe Engrg Pasadena	213-684-2000
CO	Luscombe Engrg Boulder	303-772-3342
FL	EMA Winter Park	305-671-6800
GA	CSR Electronics Atlanta	404-396-3720
IL	Cadre Tech Reps Berkeley	312-449-3900
IA	Dy-Tronix Inc Cedar Rapids	319-377-8275
KS	Dy-Tronix Inc Wichita	316-838-0884
MD	Delta III Assoc Columbia	301-730-4700
MI	C B Jensen Assoc Troy	313-643-0506
MN	D A Case Assoc Mpls	612-869-3700
MO	Dy-Tronix Inc Bridgeton	314-291-4777
NH	Sales Engineering Salem	603-893-5521
NJ	Sprung-Nussbaum Englewood	201-569-5666
NY	Bastian Sales Agency Fairport	716-223-0237
NY	Bastian Sales Agency East Syracuse	315-437-1482
NC	CSR Electronics Raleigh	919-878-9200
OH	EMA Centerville	513-433-2800
OR	Electronic Comp Sales Tigard	503-245-2342
PA	Omega Elect Sales Huntingdon Valley	215-947-4135
TX	CSR Electronics Knoxville	615-673-0222
TX	CMZ Houston	713-771-1500
WA	Electronic Comp Sales Mercer Island	206-232-9301

SCHRY-WAY CASES 1 W MOUNTAIN
PASADENA CA 91103 818-798-1166
R SCHREIBER EMP 23 ENG 1 \$500-\$1,000K

SCHURTER INC 1016 CLEGG ST		
PETALUMA CA 94952 TWX 176-084 707-778-6311		
EMP 10 ENG 2		
AL	Effective Mktg Force Athens.....	205-233-2947
CA	Ruppert Sales & Engrg San Jose.....	408-998-8717
CA	Gru Assoc Fullerton.....	714-738-0903
CA	Ruppert Sales & Engrg Moraga.....	415-376-8040
CO	Cristee-Meade Co Lakewood.....	303-232-0287
FL	IMR Inc Pompano Beach.....	305-942-2449
GA	Effective Mktg Force Lithia Springs.....	404-948-6023
IL	M J Petersen & Assoc Ltd Arlington Hts.....	312-577-8200
IN	W G Brouillette & Assoc Carmel.....	317-848-2016
MN	Frank Anthony Mktg Minnetonka.....	612-934-0773
MS	Doby Assoc Jackson.....	601-981-1138
NH	Bell Controls Inc Nashua.....	603-882-6984
NJ	D J Fisher Co Ho-Ho-Kus.....	201-652-0090
NJ	Champion Elect Sales Co Medford.....	609-983-0932
NY	TAC Sales Fairport.....	716-425-1070
NC	Effective Mktg Force.....	404-979-8699
OH	Electronic Salesmasters Beachwood.....	800-312-1848
OR	Dussault & Assoc Portland.....	503-641-8780
TX	OM Sales Richardson.....	214-690-6746
TX	OM Sales Austin.....	512-452-1838
WA	Dussault & Assoc Seattle.....	206-527-5454

DISTRIBUTORS		
CA	Quail Electronics San Jose	408-995-0812
CA	Dansco Comp Sales San Jose	408-288-9740
CA	Fusecom Inc Fremont	415-657-FUSE
CA	Fuses United Chatsworth	818-882-1515
IL	Nu-Way Elect Dist Elk Grove Vlg	800-323-7957
MD	FC Corp Rockville	800-638-6594
OH	Fuse World Strongsville	216-238-1330
TX	Fuses Inc Dallas	214-341-6407
WA	Fusecom Inc Redmond	206-881-2442
FR	Lenbrook Electronics Ontario	416-777-7722

SCHWEITZER DIV KIMBERLY-CLARK
CORP COLUMBIA MILLS LEE
MA 01238 TWX 710-369-1341.....413-243-1000
A BARUZZI EMP 500 ENG 30 OVER \$10,000K

SCIACKY BROS INC 4915 W
67 ST DEPT EBG 82 CHICAGO
IL 60638 TWX 910-224-3809.....312-594-3800
C CLARK EMP 210 ENG 30 OVER \$10,000K

CA Sciacky Bros Irvine.....714-733-1966
CA Sciacky Bros Encino.....818-995-7930
CT Sciacky Bros Manchester.....203-643-2288
MD Sciacky Bros Hagerstown.....301-797-5900
MA Sciacky Bros North Chatham.....617-945-9059
MI Sciacky Bros Pontiac.....313-827-8501
OH Sciacky Bros Medina.....216-723-5279
TX Sciacky Bros Mabank.....214-887-1527

SCIENCE ACCESSORIES CORP
970 KINGS HWY W SOUTHPORT
CT 06490 TWX 964300.....203-255-1526
H CLEVELAND EMP 34 ENG 4 \$250-\$500K

SCIENTIFIC ALLOYS INC 1275
BLOOMFIELD AVE FAIRFIELD
NJ 07006.....201-575-4070
R CONNELLY EMP 8 ENG 1 \$500-\$1,000K

SCIENTIFIC-ATLANTA INC
1 TECHNOLOGY PKWY BOX 105600
ATLANTA GA 30348
TWX 810-766-4912.....404-441-4000
S TOPOL EMP 5000 ENG OVER \$10,000K

SCIENTIFIC CALCULATIONS INC
7635 MAIN ST FISHERS
NY 14453 TWX 510-254-8546.....716-385-6790
M DAVIN EMP 450 OVER \$10,000K

CA J Lipsett San Jose.....408-945-0990
CA T Kerwin Torrance.....213-329-1142
CO D Newby Englewood.....303-779-9556
FL H Kossak Ft Lauderdale.....305-776-6033
IL T McLaughlin Arlington Hts.....312-228-1781
MD M Harmor Gaithersburg.....301-840-8508
MA G Kavanagh Marlborough.....617-460-9710
OH R Hardin Miamisburg.....513-439-1545
PA D Evans Exton.....215-524-1975
TX R Kovatch Dallas.....214-869-1131
WA D Newby Bellevue.....206-451-8849
FR N Boulzagreg Toronto ON.....416-252-3343

SCIENTIFIC COLUMBUS UNIT
ESTERLINE CORP 1900 ARLINGATE
LA COLUMBUS OH 43228
TWX 245-426.....614-274-7160
D YORE EMP 200

AL Spader Assoc Birmingham.....205-899-1366
AZ Yore of Ariz Scottsdale.....602-991-9191
AR BFCO Inc Little Rock.....501-753-9977
CA R A Young & Co Glendale.....213-242-2171
CA Wrathall & Krusi Inc San Francisco.....415-872-1011
CO Cliff Beabout Co Denver.....303-831-7259
FL R J C Assoc Orlando.....305-894-7371
GA Spader Assoc Decatur.....404-296-3024
HI Berkley Eng & Equip Co Honolulu.....808-845-9377
IL Weldy/Lamont Assoc Mt Prospect.....312-777-8575
IN C D Arnold Co Nobelsville.....317-773-5821
IA Harry Ferris Co Cedar Rapids.....319-377-1226
KS Power Equip Sales Co KC.....913-384-3848
MA Daneak Assoc Needham Hts.....617-444-8838
MI Geo R Peters Assoc Troy.....313-362-1220
MN Arjay Sales Mnpls.....612-844-4972
MO Ken Way Co St Louis.....314-567-0051
NE Harry Ferris Co Lincoln.....402-464-6148
NM Bryant Co Albuquerque.....505-843-9450
NY Robt F Lamb Co Buffalo.....716-874-4900
NC Robt W Chapman & Co Charlotte.....704-525-2421
OH Annett Industrial Sales Cincinnati.....513-271-0030
OK C B Anderson Co Tulsa.....918-836-4661
OR McLaren Inc Portland.....503-297-2248
PA Gee Co Doylestown.....215-348-3300
SC Robt W Chapman Co W Columbia.....803-256-0072
TN Robt W Chapman Co Knoxville.....615-966-6120
TX Ev Smith Sales Co Houston.....713 649-5756
UT Instrumentation Sales S L C.....801-277-2044
VA Hildenbrand Co Alexandria.....703-998-0455
WA McLaren Inc Bellevue.....206-544-3500
WV R F Clark Co Pittsburgh.....412-242-9400
WI T R Bickler Assoc Wauwatosa.....414-784-2600
FR R G Shelley Ltd Don Mills ON.....416-447-6471
FR Showalter Agencies Ltd Calgary AB.....403-277-3153
FR Rotalec Engrg Westmont PQ.....514-481-6680
FR J A Mera Inc San Juan PR.....725-0318
FR Showalter Agencies Ltd Vancouver BC.....604-734-2126

SCIENTIFIC COMMUNICATIONS INC
2908 NATIONAL DR GARLAND
TX 75041 TWX 910-860-5172.....214-840-4900
D CONNER EMP 200 ENG 30 OVER \$10,000K

CA RF Assoc Los Angeles.....213-478-1586
FL EME Inc Melbourne.....305-259-2711
IL R-Tek Inc Palatine.....312-991-4404
IN R-Tek Inc Fort Wayne.....219-432-8783
NY O'Sullivan & Murphy Needham Hts.....617-449-4141
NY REPCO Assoc New Rochelle.....914-235-6405

SCIENTIFIC ENTERPRISES INC
2801 INDUSTRIAL LA BOX 220
BROOMFIELD CO 80020
TWX 45-4331.....303-469-7801
S STANFORD EMP 25 ENG 3 \$1,000-\$2,500K

DISTRIBUTORS

CA Biggam Entrps San Jose.....408-298-6810
CO Dixon Paper Denver.....303-371-7510
FL Patton Aircraft & Ind Miami.....305-592-6400

MN American Mktg of Plastics Mnpls.....612-559-4123
OR O & S Supply Co Portland.....503-226-6013
TX Class 10 Dallas.....214-234-1424

SCIENTIFIC INSTRUMENTS INC
1101 25TH ST WEST PALM BEACH
FL 33407 TWX 513474.....305-659-5885
J HOEY EMP 40 ENG 5 \$1,000-\$2,500K

CA R G Hansen & Assoc Santa Barbara.....805-966-1063
FL W H Boggs Inc Winter Park.....305-647-2226
IL Physics Equipment Downers Grove.....312-960-4054
MA NGS Assoc Canton.....617-821-0690
MN Universal Power Conversion Eden Prairie.....612-937-2597
PA John Kohan Co Irwin.....412-863-1282
FR Analytech Components Toronto.....416-533-2381

SCIENTIFIC RADIO SYSTEMS INC
367 ORCHARD ST ROCHESTER
NY 14606 TWX 978-368.....716-458-3733
N GARMAN EMP 94 ENG 10 \$5,000-\$10,000K

SCIENTIFIC TECHNOLOGY INC
1201 SAN ANTONIO RD MTN VIEW
CA 94043 TWX 345506.....415-965-0910
J LAZZARA EMP 150

SCI SYSTEMS INC BOX 4000
HUNTSVILLE AL 35802
TWX 810-726-2234.....205-882-4800
T HAGEN EMP 4400 ENG 1100 OVER \$10,000K

CA SCI Hawthorne.....213-644-6128
CA SCI San Jose.....408-244-0120
CO SCI Littleton.....303-770-9115
GA SCI Atlanta.....404-396-3428
IL SCI Cary.....312-639-8870
MA SCI Scituate.....617-545-1762
TX SCI Dallas.....214-960-2891
VA SCI Arlington.....703-486-0011

SCITEC CORP BOX 30 NEWPORT
RI 02840 TWX 952158.....401-849-4353
EMP 90 ENG 25 \$2,500-\$5,000K

RI Scitec Corp Middletown.....401-849-4353

SCOPE INC 1860 MICHAEL
FARADAY DR RESTON VA 22090
TWX 710-833-1178.....703-471-5600
R NICKELL EMP 255 ENG 16 OVER \$10,000K

SCOTT ENGINEERING CO 430 N 9 ST
OLEAN NY 14760.....716-372-5690
C GOODWIN EMP 8 ENG 2 \$100-\$250K

SCOTT INSTRUMENT LABS DIV
AEC CORP 13 SAGAMORE PK RD
HUDSON NH 03051 TWX 953-035.....603-880-6300
P PETERS EMP 35 ENG 5 \$100-\$250K

SEABOARD ELECTRONICS DIV
NEALOR CORP 70 CHURCH ST
NEW ROCHELLE NY 10805
TWX 646-289.....914-235-8073
D JACKSON EMP 35 ENG 3 \$2,500-\$5,000K

SEACOR INC 123 WOODLAND
AV BOX 541 WESTWOOD NJ 07675
TWX 135354.....201-666-5600
EMP 40 ENG 5 \$1,000-\$2,500K

CA NES San Clara.....408-180-1950
CA Westek Assoc Rowland Hts.....714-595-5237
FL Cartwright & Bean Orlando.....305-422-4531
GA Cartwright & Bean Atlanta.....404-233-2939
MA KSA of New Eng Southboro.....617-485-9432
MN Merril Franklin Bloomington.....612-854-9446
NJ Howard Kagan Assoc Wayne.....201-694-1115
NY Sweetco Rochester.....716-225-2383
NY Richman Sales Commack.....516-543-5532
OH Val-Skol Sales Northfield.....216-467-1392
PA Freedman-Malta Assoc King of Prussia.....215-337-9211
TN Cartwright & Bean Memphis.....901-276-4442
WA Gompf Assoc Seattle.....206-575-6999
FR D S Ternent San Juan PR.....809-762-2688

DISTRIBUTORS

AZ T T I Inc Tempe.....602-966-1616
CA California Capacitor Santa Clara.....408-980-8495
CA National Capacitor Garden Grove.....714-892-7749
CA Projections Unltd Santa Ana.....714-641-1472
CA Capacitors Unltd San Jose.....408-646-7676
FL NRC Ft Lauderdale.....305-772-4550
IL Bell Indus Chicago.....312-982-9210
MA T L C Burlington.....617-273-0140
MA Pilgrim Elect N Chelmsford.....617-251-8746
MN Joel Co Mnpls.....612-545-5669
NJ Brothers Elect E Brunswick.....201-238-2200
NY S A I Farmingdale.....516-293-2710
TX T T I Ft Worth.....817-831-0441

SEA DATA CORP 1 BRIDGE ST
NEWTON MA 02158 TWX 951107.....617-244-3216
W HILL EMP 30 ENG 5 \$2,500-\$5,000K

SEALECTOR CORP 40 LINDEMAN DR
TRUMBULL CT 06611
TWX 310-425-501.....203-372-4118
EMP 700 ENG 25 OVER \$10,000K

SEALED AIR CORP 19-01 STATE
HWY 208 FAIR LAWN NJ 07410.....201-797-4000
B BRED OVER \$10,000K

SEALTRON INC 9705 READING RD
CINCINNATI OH 45215
TWX 62872030.....513-733-8400
J DAWSON EMP 125 ENG 2 \$2,500-\$5,000K

AZ O'Donnell Assoc S W Phoenix.....944-9542
CA D C Electronics Sunnyvale.....734-3894
CA ISI Marketing Fullerton.....773-0411

CT Maguire & Assoc Rocky Hill.....563-1845
IL Heartland Tech Mkt Rolling Meadows.....577-9222
MA Maguire & Assoc Wellesly.....431-1120
NJ F R B Assoc Newfield.....692-1290
NY Astropore Inc West Babylon.....422-2500
NY Brandon Assoc Liverpool.....652-3954
OH Delta Sales Cinti.....271-5444
TX CCI Ft Worth.....484-9691
WA Henry Paulman Sales Medina.....455-3311
WI Heartland Tech Mkt Milwaukee.....931-0606

SEASTROM MFG CO INC 701
SONORA AVE GLENDALE CA 91201
TWX 910-497-2271.....213-245-9121
EMP 75 ENG 3

AZ Hecht, Henschen & Assoc Phoenix.....602-275-4411
CA A J Mollica Co San Jose.....408-279-3032
CA Qualtronic San Diego.....619-560-8955
CO Romtec Englewood.....303-779-0921
FL Blair Engr Sales Co Fern Park.....305-834-1244
IL Hill Gray Assoc Elmhurst.....312-832-4101
IN Given Corp Ft Wayne.....219-432-5585
MI Erhart Engr Sales Co Stockbridge.....313-229-6958
MN Giefer Sales Co Mnpls.....612-884-2395
MO Rothkopf & Assoc St Louis.....314-961-4485
NH Bahr Sales Co Spofford.....603-352-5444
NY Long Island Machy Sls Corp Lindenhurst.....516-884-2100
NY T-Square Electronics Syracuse.....315-463-8592
NC Blair Engr Sales Co Greensboro.....919-292-8200
OK Blair Engr Sales Co Tulsa.....918-747-3100
PA S A Jeffries, Inc Narberth.....215-664-8500
TX Blair Engr Sales Co Dallas.....214-241-5655
WA F W Aurich & Co Seattle.....206-284-5561
FR Sterling Aircraft Prods Concord ON.....416-669-4080

SECME SWITCH DIV SANDBERG
INDUSTRIES 1851 REYNOLDS AVE
IRVINE CA 92714
TWX 910-595-2767.....714-261-0610

SECURITY PLASTICS INC 14427
NW 60TH AVE MIAMI LAKES
FL 33014 TWX 803-303.....305-823-5440
J LIGHT EMP 425 ENG 25 OVER \$10,000K

SEGAL INC EDWARD 360 REYNOLDS
BRIDGE RD THOMASTON CT 06787
TWX 955422.....203-283-5821
R GARRETTSON EMP 32 ENG 4

AZ E C Rowell & Co Scottsdale.....602-990-4196
IN H-H & A Inc Columbus.....812-376-0177
KY H-H & A Inc Goshen.....502-228-8941
NY High Speed Hammer Co Rochester.....716-266-6470
OH H-H & A Inc Ashland.....812-376-0177
TX LaBelle Ind Sales Co El Paso.....915-584-5729

SEIKO INSTRUMENTS & ELECTRONICS
LTD 31-1 6-CHOME KAMEIDO
KOTO-KU TOKYO JAPAN
TWX 2622162.....03-682-1111
EMP 4700

CA Seiko Instruments USA Torrance.....213-530-8777
FR Seiko Instruments GmbH Frankfurt/Main W Germany.....069-6666971
FR Precision Eng Ltd Kowloon Hong Kong.....3-676485/683160

SEIKO INSTRUMENTS USA INC
2990 W LOMITA BLVD TORRANCE
CA 90505 TWX 910 347-7307.....213-530-8777
J HAWKINS EMP 200 ENG 40 OVER \$10,000K

AL Electro-Mech Huntsville.....205-533-2100
CA Quorum Tech Sales Santa Clara.....408-980-0812
FL Gallagher & Assoc Plantation.....305-473-2011
GA Electro-Mech Atlanta.....404-447-6478
IN Valentine & Assoc Greenwood.....317-888-2620
IA Coombs Assoc Cedar Rapids.....319-362-4116
KS Kebo Inc Wichita.....316-733-1301
MD Vince Iorio Assoc Annapolis.....301-261-1716
MA Forsberg Sales Taunton.....617-824-3840
MI Greiner Assoc Grosse Pt Pk.....313-499-0188
MN Quantum Sales Bloomington.....612-884-4700
MO Kebo Inc Maryland Hts.....314-576-4111
NY Cooper Simon & Co Great Neck.....516-487-1412
NY R P Kennedy Co Rochester.....716-271-1910
NC Electro-Mech Raleigh.....919-851-8165
OH Intech Inc Akron.....216-666-1818
OR Components West Inc Tigard.....503-684-1671
PA T C A Assoc Broomall.....215-353-2022
TX Electro-Mech Jonesboro.....615-753-2964
TN TL Mktg Inc Dallas.....214-357-1752
WA Components West Inc Redmond.....206-885-5880
FR Tech-Trek Ltd Redxale ON.....416-674-1717
FR Tech-Trek Ltd Ville St Laurent.....514-337-7540
FR Tech-Trek Ltd Ottawa ON.....613-230-3927

DISTRIBUTORS

AL Contact Electronics Huntsville.....205-881-9321
AZ Sterling Elec Phoenix.....602-258-4531
CA Pacesetter Elect USA Santa Clara.....714-557-7131
CA Pacesetter Elect USA Sunnyvale.....408-734-5470
CA Added Value Tustin.....714-790-5848
CA Eric Electronics San Jose.....408-262-1111
CT Sterling Elec Wallingford.....203-265-9535
IL Semiconductor Specialists Chicago.....312-279-1000
IL Classic Components Northbrook.....312-272-9650
LA Sterling Elec Metairie.....504-887-7610
MD Current Components Middletown.....301-473-5333
MA Sterling Elec Waltham.....617-894-6200
MN Semiconductor Specialists Bloomington.....612-854-8841
MO Ric-Tronics Inc St Louis.....314-576-9816
NJ Sterling Elec Perth Amboy.....201-442-8000
NM Sterling Elec Albuquerque.....505-884-1900
NC Golden Electronics Greensboro.....919-373-0038
OK Sterling Electronics Tulsa.....918-663-2410

OR Moore Electronics Lake Oswego..... 503-684-3100
TX Sterling Elec Dallas..... 214-243-1600
TX Sterling Elec Austin..... 512-836-1341
TX Sterling Elec Houston..... 713-627-9800
VA Sterling Elec Richmond..... 804-226-2190
FR Westburne Elec Supply Ltd
Downsview ON..... 416-635-2950

SEIKO INST USA INC GRAPHIC
DEV & SYS DIV 1623 BUCKEYE DR
MILPITAS CA 95035..... 408-943-9100
C LANDMAN EMP 100
CA Seiko Instr USA Torrance..... 213-530-8777
CO Seiko Instr USA Pittsburgh..... 412-774-6565
IL Seiko Instr USA Schaumburg..... 312-885-3778
MA Seiko Instr USA Framingham..... 617-626-2031
TX Seiko Instr USA Dallas..... 214-690-5500

DISTRIBUTORS

CO PAR Assoc Aurora..... 303-363-6636
FR Datamex Ltd Downsview ON..... 416-665-1808

SEILLAC CO LTD 4-9-13 HATCHOBORI
CHUO-KU TOKYO JAPAN..... 552-3021
K CHIBOSHI EMP 51 ENG 33

**S&EI MANUFACTURING 18800
PARTHENIA ST NORTH RIDGE
CA 91324 TWX 910-493-1252..... 818-349-4111
H JOHNSON EMP 74 ENG 5 \$500-\$1,000K
ADV PG 71**

CA Qualtronics San Diego..... 619-695-0118
CA J Wayner Sacramento..... 916-689-1281
FL Electrocomp Assoc Ft Lauderdale..... 305-491-4141
IL Ropex Cahill Co Engineers
Chicago..... 312-631-0070
KS S W Wollard Co Parker..... 313-898-6552
MA T E C Systems Boston..... 617-834-4663
MO Abrams & Assoc St Louis..... 314-569-0447
OH Berberich & Assoc Dayton..... 513-433-0342
PA Danco Corp Fairview Vlg..... 215-539-9300

SELA ELECTRONICS INC 545
WEST END AVE NEW YORK
NY 10024 TWX 421696..... 212-787-7925
S HART EMP 7 ENG 2 \$100-\$250K

SELCO PRODUCTS CO 7580 STAGE RD
BUENA PARK CA 90621
TWX 655457..... 213-921-6913
B WILKINSON EMP 20 ENG 1 \$2,500-\$5,000K
CA Summit Sales La Mesa..... 714-697-0646
CA Pass Assoc Sunnyvale..... 408-735-9040
MA Crawford Assoc Andover..... 617-470-2122
MN S J Collins Hopkins 55343..... 612-933-7661
MO Chas S Ryan & Co St Louis..... 314-993-0350
NJ Dolan Assoc Watchung..... 201-753-2671
OH Sanford Controls Clayton..... 513-836-9482
OR Luscombe Engrg Co Beaverton..... 503-636-6664
TX Swearingen Sales Austin..... 512-339-8663

SELECTIVE ELECTRONIC INC BOX 250
VALDESE NC 28690..... 704-874-4102
S HEFFNER
CA Malik & Assoc Oakland..... 415-428-9225
MI Selective Electronic Inc Detroit..... 313-583-6920
FR Optikon Corp Ltd Waterloo ON..... 519-885-2551

SELO METAL PRODUCTS INC
69 5TH AV HAWTHORNE NJ 07506..... 201-427-9700
A FERRUZZA EMP 24 \$1,000-\$2,500K

SEL-REX/OMI INTL CORP 75
RIVER RD NUTLEY NJ 07110
TWX 710-989-1423..... 201-667-5200
L PRICE EMP 300 ENG 13 OVER \$10,000K
CA Sel-Rex Co Anaheim..... 714-778-0436
IL Sel-Rex Co Elmhurst..... 312-832-9450
RI Sel-Rex Co Cranston..... 401-781-0700

SEMATEX CORP 3450 FUJITA ST
TORRANCE CA 90505
TWX 910-347-6242..... 213-539-0201
T MCKERLIE EMP 30 ENG 10

SEMICON 333 MCCORMICK AVE
COSTA MESA CA 92626
TWX 910-595-1961..... 714-979-1900
B MCNEILL EMP 70 ENG 9 \$2,500-\$5,000K

AZ Clemick & Assoc Tucson..... 602-749-4003
CA Select Electronics..... 714-739-8891
CA CG Assoc..... 415-968-6062
FL D J Ellis & Assoc Maitland..... 305-645-1101
GA Tek-Rep Lawrenceville..... 404-963-1600
KS ATS Overland Park..... 913-642-6675
KY Technology Marketing Louisville..... 502-499-7808
MD Conroy Sales Baltimore..... 301-296-2444
MA Encotronics Chelmsford..... 617-256-4207
MN Furber Sales Co Mnpls..... 612-881-3620
NY Win-Cor Elctns Sales Manhasset..... 516-627-9474
ND Allen Lupton Rochester..... 800-828-1480
OH Del Steffen & Assoc Dayton..... 513-293-3145
TX Delta Components Seagoville..... 214-287-6333
WA Electronic Components Mercer
Island..... 206-232-9301

SEMICON ASSOCIATES INC
1801 OLD FRANKFORT PIKE
LEXINGTON KY 40504
TWX 510-475-8888..... 606-255-3664
B ORMES EMP 115 ENG 7 \$5,000-\$10,000K

SEMICON COMPONENTS INC
10 NORTH AVE BURLINGTON
MA 01803 TWX 710-332-1919..... 617-272-9015
J LAWRENCE EMP 450 ENG 15 OVER \$10,000K
AL Remco Huntsville..... 205-533-3763
AZ Semper Ft Sales Scottsdale..... 602-991-4601
CA Corntech Marketing San Jose..... 408-365-7474
CA Orion Sales Glendale..... 818-240-3151

FL APM Assoc Tampa..... 813-886-2457
GA Remco Atlanta..... 404-447-6937
IL Beta Technology Glendale Hts..... 312-790-9886
MA Circuit Sales Lexington..... 617-861-0567
MI Van Develde & Assoc Mt Clemens..... 313-949-7900
MN Repco St Paul..... 612-642-2828
NJ Danco Cherry Hill..... 609-424-5590
NY Tri-Tech Fayetteville..... 315-446-2881
NY Win Cor Elect Sales Manhasset..... 516-627-9474
NC Remco Raleigh..... 919-847-5079
OH KW Elect Sales Dayton..... 513-890-2150
TX Promark Sales Dallas..... 214-644-0497
VA Burgin & Kreh Assoc Lynchburg..... 804-239-2626
WA Rhodes Sales Hillsboro..... 503-640-6660

DISTRIBUTORS

CA Pacesetter Santa Ana..... 714-557-7131
CA Wyle Distribution Irvine..... 714-851-9958
FL All American Miami..... 305-754-5531
NY Zeus Port Chester..... 914-937-7400
NY ACI Plainview..... 516-293-6630

SEMICONDUCTOR CIRCUITS INC
49 RANGE RD WINDHAM NH 03087
TWX 710-366-0505..... 603-893-2330
J MUCKENHOUP EMP 300 ENG 10 \$5,000-\$10,000K

DISTRIBUTORS

CA Power Systems Dist Milpitas..... 408-263-1063
CA El Dorado Sales Santa Ana..... 714-954-0285
GA A P Sales Norcross..... 404-263-0421
IL GBL/Gould Elect Elc Grove Vlg..... 312-939-3222
IN Altex Electronics Carmel..... 317-848-1323
MD MPI Baltimore..... 800-368-2527
MA Target Elect Supply Wellesley
Hills..... 617-235-2545
MI A P Sales Brighton..... 313-229-6550
NY Simcona Elect Rochester..... 716-328-3230
OR Moore Elect Lake Oswego..... 503-684-3100
TX Southwest Electronics Stafford..... 713-240-4000
TX Southwest Electronics Richardson..... 214-234-3050

SEMICONDUCTOR DIV FREQUENCY
SOURCES INC 16 MAPLE RD
CHELMSFORD MA 01824
TWX 710-343-0404..... 617-256-8101
A ARMSTRONG EMP 88 ENG 18 \$2,500-\$5,000K

SEMICONDUCTOR EQUIPMENT CORP
5154 GOLDMAN AVE MOORPARK
CA 93021 TWX 910-336-1125..... 805-529-2293
A MOORE EMP 37 ENG 5 \$2,500-\$5,000K

SEMICONDUCTOR MFG CORP
1275 BLOOMFIELD AVE FAIRFIELD
NJ 07006..... 201-227-2432
R CONNELLY EMP 23 ENG 3 \$5,000-\$10,000K

SEMICONDUCTOR PACKAGING
MATERIALS CO 431 FAYETTE AVE
MAMARONECK NY 10543
TWX 910-3809209..... 914-698-5353
EMP 25 ENG 3 \$1,000-\$2,500K
AZ Spectrum Associates..... 602-966-1788
CA California Technical Services..... 408-496-1155
CA California Technical Services..... 818-343-3131
CT Libby Associates..... 203-747-5601
PA Schanas Associates..... 215-368-2017
TX Dallas Industrial Sales..... 214-669-2068

SEMICONDUCTOR PRODUCTS INC
250 CANAL ST BOX 294
LAWRENCE MA 01842..... 617-686-0197
L KING EMP 14 ENG 2 \$500-\$1,000K
CA Intervend Int Ltd Marina Del Rey..... 213-821-7936
FL T C Primrose Co Melbourne..... 305-727-2491
IL Brock & Cushman Chicago..... 312-622-4110
WI Brock & Cushman Inc Waterford..... 414-662-3154

SEMICONDUCTOR TECHNOLOGY INC
BOX 474 STUART FL 33495
TWX 510-953-7511..... 305-283-4500
F SEIGEL EMP 45 \$2,500-\$5,000K

AZ Harris & Croy Scottsdale..... 602-951-9121
CA Leddy Assoc Mt View..... 415-969-6313
CA Solid State Sales Costa Mesa..... 714-650-8414
CO Component Sales Englewood..... 303-779-8060
CT Datcom Harden..... 203-288-7005
FL Delmac Sales Orlando..... 305-898-4688
GA Electramark Inc Norcross..... 404-446-7915
IL Spon Assoc Downers Grove..... 312-963-7011
IN Scott Elctns Indpls..... 317-897-9976
IA Lorenz Sales Cedar Rapids..... 319-377-4666
KS Lorenz Sales Overland Park..... 913-649-5556
MD Stitzer Assoc Baltimore..... 301-494-9100
MA Datcom Waltham..... 617-891-4600
MI Michigan Mktg & Sales Brighton..... 313-229-6218
MN Bill Deming & Assoc Mnpls..... 612-888-5000
MO Lorenz Sales Bridgeton..... 314-298-8585
NJ Comp Tech Sales Hasbrouck Hts..... 201-288-7400
NY Comp Tech Sales New Hyde Pk..... 516-593-2628
NY Electra Sales Co Syracuse..... 315-463-1248
OH Scott Electronics Cleveland..... 216-473-5050
OR Components West Tigard..... 503-684-1671
PA Stitzer Assoc Paoli..... 215-644-5500
TX El-Tec Sales Inc Hurst..... 817-268-2896
UT Component Sales SLC..... 801-268-8440
WA Components West Redmond..... 206-885-5880
FR Solid State Eng Montreal PQ..... 514-481-3313
Rio Piedras, PR..... 809-762-6459

DISTRIBUTORS

AZ Bell Indus Tempe..... 602-966-7800
CA Bell Indus Sunnyvale..... 408-734-8570
CO Bell Indus Wheatridge..... 303-424-1985
CT Milgray Orange..... 203-795-0711
FL Milgray Winter Pk..... 305-647-5747
GA Milgray Atlanta..... 404-393-9666

IL Bell Indus Elk Grove Village..... 312-640-1910
IN Graham Elect Indpls..... 317-634-8222
KS Milgray Overland Pk..... 913-236-8800
MA Milgray Burlington..... 617-272-6800
NJ Milgray Marlton..... 609-983-5010
NM Bell Indus Albuquerque..... 505-292-2700
NY Milgray Farmingdale..... 516-420-9800
OH Bell Indus Dayton..... 513-438-8231
OH Milgray Cleveland..... 216-447-1520
OR Bell Indus Lake Oswego..... 503-241-4115
TX Harrison Equip Co Stafford..... 713-879-2600
UT Bell Indus SLC..... 801-972-6969
WA Bell Indus Bellevue..... 206-747-1515
WI Bell Indus Waukesha..... 414-547-8879

SEMIKRON INC 11 EXECUTIVE
DR BOX 66 HUDSON NH 03051
TWX 6711011..... 603-883-8102
A BRENNAN EMP 50 ENG 3 \$5,000-\$10,000K

CA Trimarco Inc Downey..... 213-861-8244
CA Ault Assoc Redwood City..... 415-367-1710
FL Boggs & Assoc Oldsmar..... 813-855-1812
IL Ropex Cahill Vogt Chicago..... 312-631-0070
MI Favco Birmingham..... 313-644-0173
MN Bohlig & Assoc Mnpls..... 612-944-8404
MO Harris-Hanson Co St Louis..... 314-432-3611
NH Eva-Tec Mktg Amherst..... 603-673-4830
NM Trembley Assoc Albuquerque..... 505-266-8616
NY Lynn Assoc Buffalo..... 716-631-0054
NC R W Mitscher Co Raleigh..... 919-848-0941
OH Frank E Kahsar Sales Cincinnati..... 513-922-3133
OR Doran Sales Assoc Forest Grove..... 503-357-3333
PA Lyny Assoc Wexford..... 412-935-1466
TX Barry Sales Inc Dallas..... 214-234-0255
FR Renmark Elctns Ltd Toronto ON..... 416-494-5445

DISTRIBUTORS

AL Forbes Dist Birmingham..... 205-251-4104
CA Sacramento Elect Sply Sacramento..... 916-441-4821
FL MRO Elect Dist Hollywood..... 305-966-4847
GA Cleveland Elec Co Atlanta..... 404-696-4550
MI Osborne Transformer Co Detroit..... 313-368-4136
MN Chris Elect New Brighton..... 612-631-2647
NJ Lectron Industries Roselle..... 201-245-5858
NC JMT Electronics & Controls
Gastonia..... 704-867-4401
TX Industrial Drives Mntnce Houston..... 713-681-6942
TX Wilkinson Bros Dallas..... 212-941-9963
WA Radar Electric Co Seattle..... 206-282-2511
WI Galco Ind Elect Madison..... 313-542-9090
WI Drives Sys Technology Salem..... 414-843-3177
FR Intek Elect Ltd Burnaby BC..... 604-535-1777
FR Canadian Gen Elec Toronto ON..... 416-530-2985

SEMI PROCESSES INC 1971
N CAPITOL AVE SAN JOSE
CA 95132 TWX 910-338-0025..... 408-945-1500
D HARGRAVE EMP 130 ENG 50 OVER \$10,000K

AZ American Mktg Scottsdale..... 602-948-2778
CA Costar Cupertino..... 408-446-9339
CA S C Cubed Tustin..... 714-731-9206
CO Wescon Marketing Arvada..... 303-422-7619
FL Electrocomp Ft Lauderdale..... 305-491-4141
GA Dixie Technical Mktg Norcross..... 404-447-6832
IL Semi Processes Inc Barrington..... 312-381-3630
IA Gansner & Clark Hiawatha..... 319-393-5763
KS Rush & West Olathe..... 313-764-2700
MD DGR Towson..... 301-583-1360
MA Anchor Engineering Newton
Upper Falls..... 617-964-6205
MI W R Hummon & Assoc Farmington..... 313-474-0661
MO Rush & West Ballwin..... 314-394-7271
NJ Gebhardt Mktg Springfield..... 201-376-4415
OH J C Hofstetter Dayton..... 513-296-1010
OK Southern States Mktg Inc Tulsa..... 918-665-8338
OR Micro Sales Portland..... 503-297-4726
PA T C A Assoc Broomall..... 215-353-2022
TX Southern States Mktg Richardson..... 214-238-7500
WA Micro Sales Bellevue..... 206-451-0568
FR Tech-Trek Ltd Ottawa ON..... 613-230-3927
FR Tech-Trek Ltd Pointe Claire PQ..... 514-697-3385

DISTRIBUTORS

AL Contact Elec Huntsville..... 205-881-9321
AL Marshall Ind Huntsville..... 205-881-9235
AZ Bell Ind Tempe..... 602-966-7800
AZ Marshall Ind Tempe..... 602-968-6181
CA Bell Ind Gardena..... 213-515-1800
CA Bell Ind Garden Grove..... 714-895-7801
CA Marshall Ind Canoga Park..... 213-999-5001
CA Marshall Ind Sunnyvale..... 408-732-1100
CA Pacesetter Santa Ana..... 213-299-7660
CA Pacesetter Sunnyvale..... 408-734-5470
CO Bell Ind Wheat Ridge..... 303-424-1985
CO Marshall Ind Denver..... 303-427-1818
CT Marshall Ind Wallingford..... 203-265-3822
CT Sterling Elec Wallingford..... 203-265-9535
FL Marshall Ind Orlando..... 305-841-1878
FL Repron Elec Tampa..... 813-855-4656
FL Chip Supply Orlando..... 305-275-3810
GA Marshall Ind Norcross..... 404-923-5750
IL Bell Ind Chicago..... 312-982-9210
IL Intercomp Hoffman Estates..... 312-843-2040
IL Marshall Ind Schaumburg..... 312-490-0155
IL Repron Elec Arlington Hts..... 312-593-7070
IN Altex Elec Corp Carmel..... 317-848-1323
MD Marshall Ind Gaithersburg..... 301-840-9450
MA Add Elec Corp Mendon..... 617-272-8200
MA Marshall Ind Burlington..... 617-894-6200
MI Marshall Ind Livonia..... 313-525-5850
MI Repron Elec Livonia..... 313-525-2700
MN Marshall Ind Plymouth..... 619-559-2211
NJ General Components Berlin..... 609-768-6777
NJ Marshall Ind Fairfield..... 201-882-0320
NJ Marshall Ind Mt Laurel..... 609-234-9100
NJ Sterling Elec Perth Amboy..... 201-442-8000
NM Bell Ind Albuquerque..... 505-292-2700
NY Add Elec Corp E Syracuse..... 315-437-0300
NY Marshall Ind Endwell..... 607-754-1570

NY	Marshall Ind Rochester	716-235-7620
NY	Marshall Ind Long Island	516-273-2424
OH	Bell Ind Dayton	513-434-8231
OH	Marshall Ind Dayton	513-236-8088
OH	Repton Elec Columbus	614-436-6675
OR	Bell Ind Lake Oswego	503-241-4115
TX	ACT-Houston Houston	713-496-4000
TX	ACT-Dallas Dallas	214-980-1888
TX	Marshall Ind Dallas	214-233-5200
TX	Marshall Ind Houston	713-789-6600
UT	Bell Ind SLC	801-972-6969
WA	Bell Ind Bellevue	206-747-1515
WA	Marshall Ind Bellevue	206-747-9100
WI	Bell Ind Waukesha	414-784-0235

SEMIX INC 4160 TECHNOLOGY DR	
FREMONT CA 94538	415-659-8800
N SUGANO EMP 9 ENG 7	

SEMTECH CORP 652 MITCHELL RD	
NEWBURY PARK CA 91320	
TXW 910-336-1264	213 628-5392
W KRAUSE EMP 250 ENG 24 OVER \$10,000K	
AL The Novus Group Huntsville	205-881-2207
AZ Sales Engrg Inc Scottsdale	602-994-3230
CA Marltonix Fallbrook	619-728-7678
CA Ross Mktg Assoc Santa Clara	408-988-8111
CA WCV-Raltech Inc Chatsworth	818-700-0933
CO Electrodyne Aurora	303-695-8903
FL G F Bohman Assoc Apopka	305-886-1882
FL G F Bohman Assoc Ft Lauderdale	305-979-0008
FL G F Bohman Assoc St Petersburg	813-522-6120
GA The Novus Group Lilburn	404-381-1015
IL Semtech Chicago	312-352-3227
IL Coombs Assoc Arlington Hts	312-439-9810
IN Coombs Assoc Ft Wayne	219-747-7661
MD Semtech Glyndon	301-833-7474
MD Walker-Houck Assoc Owings Mills	301-356-9500
MA Stone Comp Sales Framingham	617-875-3266
MN Microelectronic Sales Mnpis	612-829-0948
MO Perm Sales Co St Louis	314-427-7200
NV Unitoronics Mktg Reno	702-825-1978
NY Semtech Springfield	201-376-2004
NM Rontek Albuquerque	505-299-4124
NY Compar New York Huntington	516-423-5660
NY Ossmann Comp Sales Rochester	716-424-4460
NY Ossmann Comp Sales East Syracuse	315-437-7052
NY Ossmann Comp Sales Vestal	607-754-3264
NC The Novus Group Raleigh	919-872-3966
OH Baehr Greenleaf & Assoc	

Cleveland	216-221-9030
OH Baehr Greenleaf & Assoc Columbus	614-486-4046
OH Baehr Greenleaf & Assoc Dayton	513-439-0724
OR Comtec Milwaukie	503-654-6626
OR Comtec Gaston	503-357-6785
PA Baehr Greenleaf & Assoc	
Evans City	412-776-2151
PA C H Newson & Assoc Flourtown	215-233-0333
RI Tesco Garland	214-681-1376
UT Electrodyne Salt Lake City	801-486-3801
UT Semtech Bellevue	206-455-4807
WA Comtec Bellevue	206-453-1188
WI Coombs Assoc Milwaukee	414-351-6123
FR Avotronics Ltd Markham ON	416-475-2024
FR Avotronics Ltd Pte Claire PQ	514-697-2135

DISTRIBUTORS	
CA Bond Electro Sales Westlake Vlg	818-706-0322
CA Prime Electro Prods Manhattan	
Bch	213-379-3642
CA Mock Ill San Diego	619-560-0515
CA All American Torrance	213-320-0240
CA All American San Jose	408-287-0190
CA SAI Semispecialists Manhattan	
Bch	213-376-0861
CA SAI Semispecialists Sunnyvale	408-720-0760
CO Denver Beta Wintronics Arvada	303-431-7161
DC Aztech Elect Washington	202-621-4865
FL Hammond Electronics Orlando	305-841-1010
FL All American Miami	305-621-8282
FL SAI Semispecialists Altamonte	
Spqs	305-831-6201
FL Universal Semiconductor	
Ft Lauderdale	305-972-8111
HI Industrial Electronics Honolulu	808-533-6095
MD Aztech Electronic Columbia	301-995-1760
MD All American Rockville	301-251-1205
MA Jaks Elect Dist Framingham	617-875-1805
MA SAI Semispecialists Woburn	617-938-5460
NY SAI Semispecialists Farmingdale	516-293-2710
NY All American Ronkonoma	516-981-3935
OR Radar Elec Co Portland	503-232-3404
TX Force Elect of TX Houston	713-561-8644
TX Force Elect of TX Farmer's Branch	214-247-9955
UT Salt Lake Beta Wintronics SLC	801-483-1882
VT SAI Semispecialists Rutland	802-775-7126
WA Radar Elec Co Seattle	206-282-2511
WA Radar Elec Co Spokane	509-747-3053
WI Taylor Electric Co Mequon	414-241-4321
FR Electronic Wholesalers	
Montreal PQ	514-769-8861
FR Electronic Wholesalers Ottawa ON	613-746-4413
FR L A Varah Edmonton AB	403-437-1755

SENCORE INC 3200 SENCORE DR	
SIOUX FALLS SD 57107	
TXW 1910-660-0300	605-339-0100
J PERRY EMP 180 ENG 20 \$5,000-\$10,000K	

SENNHEISER ELECTRONIC CORP (NY)	
48 W 38 ST NEW YORK NY 10018	212-924-9440
T TUDISCO EMP 25 ENG 2 \$2,500-\$5,000K	

SENSITIVE RESEARCH INSTRUMENTS	
25 DOCK ST MT VERNON	
NY 10550	914-699-9717
G FRANK EMP 35 ENG 2 \$500-\$1,000K	
ADV PG 527	
AZ Williams Assoc Scottsdale	602-947-4297
CO Williams Assoc Commerce City	303-289-5647

IL Saffro & Assoc Lincolnwood	312-677-9720
KS Comtel - Midwest Shawnee Mission	913-722-1030
MD Whitcomb Assoc Baltimore	301-889-1245
MA Zieco Inc Lexington	617-861-8300
MI Comtel Instruments Southfield	313-358-2505
MN Hei-Lite Sales Inc Mnpis	612-861-6051
MO Comtel - Midwest St Louis	314-991-5363
NM Williams Assoc Albuquerque	505-255-1638
OH Comtel Instruments Cleveland	216-442-8080
OH Comtel Instruments Dayton	513-298-7573
OH Comtel Instruments Hilliard	614-876-8305
OK Data Mktg Assoc Tulsa	918-299-4818
PA Comtel Instruments Pittsburgh	412-922-5720
TX Data Mktg Assoc Dallas	214-661-0300
TX Data Mktg Assoc San Antonio	512-342-3031
TX Data Mktg Assoc Austin	512-443-7722
TX Data Mktg Assoc Inc Houston	713-780-2511
WI Williams-Assoc SLC	801-532-7701
WI Saffro & Assoc Lake Mills	414-648-2605
FR Mesurina Lee/Ltd Beaconsfield	
PO	514-697-6581

SENSTIRON SEMICONDUCTOR	
DIV RSM ELECTRON POWER INC	
221 W INDUSTRY CT DEER PARK	
NY 11729 TXW 96-7737	516-586-7600
C FISCHER EMP 150 ENG 14 \$2,500-\$5,000K	
AL L & D Inc Huntsville	205-837-1469
AZ Relcom SW Phoenix	602-893-1209
CA Power Comp Sales Tarzana	213-881-9111
CA F & F Assoc Cupertino	408-446-2349
CO Waugaman Assoc Wheat Ridge	303-423-1020
FL OEM Mktg Corp Orlando	305-299-1000
GA L & D Inc Atlanta	404-455-3483
IL Micro Sales Arlington Hts	312-956-1000
MA Datcom Waltham	617-891-4600
MI Howard Assoc Wyoming	616-532-2161
MN Electronic Innovators Eden	
Prairie	612-941-0830
NY Astrophe Inc Babylon	516-422-2500
NY Alan Lupton Assoc Rochester	716-482-7700
NC L & D Inc Raleigh	919-876-5301
OH KCH Co Cincinnati	513-931-1686
OR Electronic Sources Tigard	503-684-0040
TN L & D Inc Seymour	615-573-6511
TX Delta Components Inc Seagoville	214-287-6333
UT Waugaman Assoc SLC	801-261-0802
VA L & D Inc Richmond	804-257-7717
WA Electronic Sources Bellevue	206-451-3500

DISTRIBUTORS	
CA Zeus Comp Anaheim	714-632-6880
CA ACI Walnut	818-331-0735
NY A C I Plainview	516-293-6300
NY Zeus Comps Port Chester	914-937-7400

SENSO-METRICS INC 4584	
RUNWAY STREET SIMI VALLEY	
CA 93063 TXW 910-494-1221	805-527-3640
H CHELNER EMP 45 ENG 6 \$1,000-\$2,500K	
CA RDX Corp Pasadena	213-681-3451
CA RDX Corp Sunnyvale	408-734-5500
CT Meco Inc Cheshire	203-271-0026
IL Instrumentation Sales Co Chicago	312-775-1687
MA Meco Inc Reading	617-966-6660
MI Lowell-Wendt Mktg Co Livonia	313-464-2722
NJ Langston Insts Midland Park	201-848-0288
OR Instrumentation Systems Dayton	513-294-2838
OR Elcher-Richards Beaverton	503-221-1123
PA Instrumentation Systems	
Pittsburgh	412-243-1111
UT Radco Littleton	703-794-4279
VA H T Vaders Co Lynchburg	804-525-4637
WA Eicher-Richards Seattle	206-523-7888
WI Instrumentation Sales Co	
Milwaukee	414-342-5534

SENSOR CORP 303 SCOTSDALE AVE	
SCOTSDALE PA 15683	412-887-4080
G MORDWINKIN EMP 9 ENG 4 \$100-\$250K	
CT Marr Electric Durham	349-9691
MO Ozark Elctn Mktg Inc St Louis	423-7200
NY Roy Barthel Ent Penfield	716-377-3018

SENSOR DEVELOPMENTS INC	
654 GLASPIE BOX 10 OXFORD	
MI 48051	313-628-2727
A BRENDEL EMP 15 ENG 5 \$500-\$1,000K	

SENSOR LABS INC 721 N POPLAR ST	
ORANGE CA 92668 TXW 181933	714-978-1800
R DANKERT EMP 25 ENG 2 \$1,000-\$2,500K	
AL Alpha Marketing	205-533-0766
AZ Semi-System Arizona	602-991-1151
CA Gene C Woempner	415-964-5454
FL H A I Electronics	305-752-7520
IL Richmar Electronics	214-867-8224
IN Menze Sales	219-747-5616
MA Marathon Sales Ltd	617-875-3566
MI Ray Antos	313-540-7244
NY Electronic Marketing Assoc	716-473-1415
OH Menze Sales	219-747-5616
TX C & J Assoc	214-539-0140
WA Ray Over Sales Co	206-695-6179

SENSOR SCIENTIFIC INC 1275	
BLOOMFIELD AVE FAIRFIELD	
NJ 07008	201-227-7790
G BRINLEY EMP 10 ENG 2	
ADV PG 471	
CA Vale Electronic Assoc Irvine	714-551-4004
CO Rep Sales Inc Ft Collins	303-226-1504
FL Asklund Electronic Components	
Hollywood	305-987-1074
IL ESCO Assoc Chicago	312-763-0800
MA Sturgeon Needham	617-444-6603
NY Spectrum Co Hauppauge	516-360-0914
TX Allied Components Dallas	214-238-0408

FR Electronic Technical Sales	
San Juan PR	809-720-1300

SENSOR SYSTEMS INC 8929	
FULLBRIGHT AVE CHATSWORTH	
CA 91311 TXW 619-853	818-341-5366
J KLEIN EMP 95 ENG 5	
CA RDH Assoc Arcadia	213-396-4100
GA Spartech Smyrna	404-446-7300
OH A D Dirksen Assoc Dayton	513-294-3657
TX Carey-McMahill-Zerbe Ft Worth	817-573-8800
WA D & D Sales Renton	206-226-4120

SENSOR TECHNOLOGY INC 21012	
LASSEN ST CHATSWORTH CA 91311	213-882-4100
EMP 250 ENG 35 OVER \$10,000K	

SENSORTEK INC 154-T HURON AVE	
CLIFTON NJ 07013	201-779-5577
C WISER EMP 26 ENG 4 \$1,000-\$2,500K	

SENSYM INC 1255 REAMWOOD AVE	
SUNNYVALE CA 94089	
TXW 910-339-9625	408-744-1500
B WELING EMP 75 \$1,000-\$2,500K	

DISTRIBUTORS	
AL Pioneer Huntsville	205-837-9300
AZ Anthem Tempe	602-244-0900
CA Anthem Elec San Jose	408-946-8000
CA Anthem Elec Tustin	714-730-8000
CO Anthem Elec Englewood	303-790-4500
CT Pioneer Norwalk	203-853-1515
FL Hammond Orlando	305-879-6060
IN Advent Indianapolis	317-872-4910
MA Lionex Wilmington	817-861-9200
MI Pioneer Livonia	313-525-1800
NY Summit Rochester	716-334-8110
TX Quality Components Addison	214-733-4300
WI Taylor Mequon	414-241-4321

SENTRY TEST SYSTEMS 1601	
TECHNOLOGY DR SAN JOSE	
CA 95115 TXW 910-338-0558	408-998-0123
B SMITH EMP 1000 ENG 200	
AZ SENTRY Test Sys Tempe	602-820-8880
CA SENTRY Test Sys Irvine	714-660-0855
CO SENTRY Test Sys Englewood	303-799-1118
FL SENTRY Test Sys Orlando	305-857-9070
IL SENTRY Test Sys Schaumburg	312-934-4085
MA Fairchild Test Sys Burlington	617-229-2449
MN SENTRY Test Sys Mnpis	612-835-3341
NJ SENTRY Test Sys Gibbstown	609-784-2000
TX SENTRY Test Sys Plano	214-422-7200

SENTRY-LITE BOX 199 ROCKVILLE	
CENTRE NY 11571	516-678-2272
J SCHNEIDER EMP 12 \$500-\$1,000K	

SEQUENTIAL INFORMATION SYSTEMS	
INC 249 N SAW MILL RIVER RD	
ELMSFORD NY 10523	
TXW 710-567-1212	914-592-5930
P ROCKETT-DIETZ	

SERFILCO LTD 1234 DEPOT ST	
GLENVIEW IL 60025 TXW 289557	312-998-9300
A CARLSON EMP 150 ENG 6 OVER \$10,000K	
CA J W Toller San Ramon	415-830-0437
CA Serfilco Los Angeles	213-588-0801
CO W J Shaffer Arvada	303-424-2327
FL W Rundels Orange Park	904-264-1470
MA H Friedman Sharon	617-784-2375
MI C Civan Detroit	313-532-6220
OH L Tylicki Broadview Hts	216-838-4538
PA Pacer Pumps/Polymar Leola	717-656-2161
TX R Hill Richardson	214-669-8502

SERIAL LAB PRODUCTS INC	
50 BRIGHAM ST MARLBORO	
MA 01752	617-481-1684
R WIEDEMANN EMP 12 ENG 5	

SERVO CORP OF AMERICA 111	
NEW SOUTH RD HICKSVILLE	
NY 11802 TXW 510-221-1872	516-938-9700
G TUBLEY EMP 300 ENG 70 OVER \$10,000K	
FR D J Hutton Assoc Orleans ON	613-830-5426

SERVO INSTRUMENT CORP 240	
LYNN ST BARABOO WI 53913	
TXW 910-280-2641	608-356-6623
G GLORCH EMP 78 ENG 3 \$2,500-\$5,000K	
ADV PG 327	

SERVOMETER CORP 501 LITTLE	
FALLS RD CEDAR GROVE NJ 07009	201-785-4630
D WALKER EMP 100 ENG 5 \$2,500-\$5,000K	

SERVO-TEK PRODUCTS CO 1086	
GOFFLE RD HAWTHORNE NJ 07506	201-427-3100

SESSIONS & SON J H 280	
RIVERSIDE AVE BOX 609 BRISTOL	
CT 06010 TXW 643534	203-582-3127
D SESSIONS EMP 50 ENG 1 \$2,500-\$5,000K	

SETON NAME PLATE CORP PO	
DRAWER XX0-1331 NEW HAVEN	
CT 06505	203-488-0085
S B HAMMOND EMP 50 ENG 2 \$2,500-\$5,000K	

SETRA SYSTEMS INC 45 NAGOG PARK	
ACTON MA 01720 TXW 94-8440	617-263-1400
W STERN EMP 99 ENG 10 \$5,000-\$10,000K	
ADV PG 487	

AL Burnette Techo-Metrics	
Huntsville	205-503-9073
CA Dyna Sales Corp L A	213-268-1175
CA Qcon Inc Los Altos	415-941-5530

CO RMS Sales Westminster.....303-429-1111
 FL Dataparc Orlando.....305-843-5224
 GA Craft Assoc Atlanta.....404-256-0420
 IL Data Elctns Co Chicago.....312-283-0300
 IN Data Elctns Co Indpls.....317-359-5368
 LA Stalon & Assoc Metairie.....504-455-3855
 MD Stein Instrumentation Columbia.....301-596-3748
 MA J M Lancaster Co Ashland.....617-875-8893
 MI Tiby Co Hazel Pk.....313-547-3550
 MN Data Elctns Co Plymouth.....612-559-1434
 MO Adelphi Inc St Louis.....314-821-1232
 NY KLS Assoc Cedar Grove.....201-785-4450
 NY A & D Devices E Rochester.....716-385-2778
 OH Tiby Co Cleveland.....216-371-5335
 PA Stein Instrumentation Cheltenham.....215-379-1990
 TX Intoket Dallas.....214-243-7000
 TX Intoket Houston.....713-688-7000
 FR B H McGregor Toronto ON.....416-677-1431

SFE TECHNOLOGIES 1501 FIRST ST
 SAN FERNANDO CA 91340
 TWX 910-496-1535.....818-365-9411
 L SMITH EMP 1500 ENG 60 OVER \$10,000K

AL Electronic Sales Huntsville.....205-533-1735
 AZ West Cap Ariz Tucson.....602-294-2646
 AR R Kiczinski Milpitas.....415-825-5133
 CA T Griffin Poway.....619-747-2789
 CO Parker-Webster Co Parker.....303-841-4888
 CT Gerald Rosen Co Stratford.....203-375-5456
 FL Perrott Assoc Orlando.....305-298-7748
 GA Electronic Sales Norcross.....404-448-6554
 IL Splon Assoc Downers Grove.....312-963-7011
 IN France Entprs Greenfield.....317-462-6098
 IA Stan Clothier Co Cedar Rapids.....319-395-0245
 KS Electro-Dynamics Overland Pk.....913-888-1750
 LA San Fernando Elec Div New Orleans.....504-254-5070
 MD Micro-Comp Inc Baltimore.....301-247-0400
 MA Gerald Rosen Co Framingham.....617-879-5505
 MN Stan Clothier Co Mpls.....612-944-3456
 NY P Kraengel Chester.....414-469-9620
 NY J LaFauci Bethpage.....212-245-7292
 NC T Lee Greensboro.....919-852-6587
 OH D Baker Dayton.....513-434-8212
 OK Bonser-Philhower Sales Tulsa.....918-744-9964
 OR General Electronics Beaverton.....503-641-5288
 PA G Innis King of Prussia.....215-337-3488
 TX Bonser-Philhower Sales Richardson.....214-234-8438
 UT Parke R Webster Co Murray.....801-266-9939
 VA Micro-Comp Inc Huddleston.....703-297-7614
 WA General Electronics Renton.....206-228-9505
 FR K Atkinson Willowdale ON.....416-364-3644

DISTRIBUTORS

CA Hi-Rel Irvine.....213-594-9571
 CA Natl Capacitor Sup Garden Grove.....213-598-9611
 CA Shelley Electronics Chatsworth.....818-998-3333
 CA Petell Elect San Fernando.....818-365-9841
 CA Time Electronics Sunnyvale.....408-734-9888
 IL Bell Indus Elk Grove Vlg.....312-640-1910
 MD Zebra Electronics Timonium.....800-638-1103
 MD Pioneer Technologies Galtersburg.....301-921-0660
 MA Green Shaw Inc Newton.....617-969-8900
 MA Cronin Elect Needham.....617-449-5999
 NJ Action Electronics Audubon.....609-858-2450
 NJ Tonar Industries Rockaway.....201-586-9000
 NY Semi-Cap Central Islip.....516-582-4400
 NY JACO Elect Hauppauge.....516-273-5500
 NY Fairmont Elect Hauppauge.....516-231-3313
 NY Tri-Start Elect Ronkonkoma.....516-737-2200
 NY Diplomat Elect Corp Melville.....516-454-6400
 OH Aschbacher & Assoc Dayton.....513-252-7785
 PA Shap Elect Philadelphia.....215-969-3300
 TX TTI Inc Ft Worth.....817-831-0441
 WI Badger Elect Parts Racine.....414-637-1256

SGS SEMICONDUCTOR CORP
 1000 E BELL RD PHOENIX
 AZ 85022 TWX 249-976.....602-867-6100
 J DAUBER EMP 200 ENG 15

AL Rep Inc Huntsville.....205-881-9270
 AZ System Sales of Ariz Tempe.....602-829-9338
 CA Landa Mynard Los Angeles.....213-879-0770
 CA Bestronics San Diego.....619-693-1111
 CO Elcom Inc Denver.....303-337-2300
 CT Access Systems Corp Orange.....203-795-0201
 FL SGS-ATES Ft Lauderdale.....305-493-8881
 GA REP Inc Tucker.....404-938-4358
 ID N R Schultz Co Boise.....206-454-1585
 IL Micro Sales Inc Arlington Hts.....312-956-1000
 IN Valentine & Assoc South Bend.....219-288-7070
 MD Burgin Kreh Baltimore.....301-265-8500
 MA SGS-ATES Waltham.....617-890-6688
 MI Greiner Assoc Grosse Pointe Pk.....313-499-0188
 MN SGS Bloomington.....612-835-1347
 MO Delltron Co St Louis.....314-869-4779
 NJ Comtek Mt Laurel.....609-235-8505
 NY SGS-ATES Hauppauge.....516-436-1050
 NY J Square Mktg Hicksville.....516-935-3200
 NC Rep Inc Raleigh.....919-851-3007
 OH Midwest Mktg Assoc Chargin Falls.....503-647-6655
 OR N R Schultz Co Beaverton.....216-643-1645
 TN REP Inc Jefferson City.....615-475-9012
 TX Comptech Sales Arlington.....817-265-6007

UT Elcom Inc SLC.....801-485-7415
 VA Burgin Kreh Lynchburg.....804-239-2626
 WA N R Schultz Co Bellevue.....206-454-1585
 WI Micro Sales Inc Brookfield.....414-782-1171
 FR John G Weiss Co Ltd St-Laurent PQ.....514-337-5022

DISTRIBUTORS

AL Marshall Elect Huntsville.....205-881-9235
 AL RM Electronics Huntsville.....205-852-1550
 AZ Bell Industries Tempe.....602-966-7800
 AZ Marshall Elect Tempe.....602-968-6181
 AZ Wyle Labs Phoenix.....602-866-2888
 CA Bell Industries Sunnyvale.....408-734-8570
 CA Integrated Elect Chatsworth.....818-998-2200
 CA Marshall Elect San Diego.....619-578-9600
 CA Marshall Elect Sunnyvale.....408-732-1100
 CA Pacesetter Elect Anaheim.....714-777-4711
 CA Wyle Labs Santa Clara.....408-727-2500
 CA Wyle Labs San Diego.....619-565-9171
 CO Diplomat Wheat Ridge.....303-422-9229
 CO Marshall Elect Denver.....303-427-1818
 CO Wyle Labs Thornton.....303-457-9953
 CT Diplomat Elect Danbury.....203-797-9674
 CT Milgray Orange.....203-795-0711
 CT Marshall Elect Wallingford.....203-265-3822
 FL Marshall Ft Lauderdale.....305-928-0661
 FL Marshall Elect Orlando.....305-841-1878
 FL Hammond Ft Lauderdale.....305-973-7103
 FL Milgray Elect Winterpark.....305-928-0661
 FL Repton Tampa.....813-855-4656
 GA Diplomat Elect Norcross.....404-449-4133
 GA Marshall Elect Norcross.....404-923-5750
 GA Milgray Elect Atlanta.....404-393-9666
 IL IEC/Intercomp Hoffman Estates.....312-843-2040
 IL Marshall Elect Schaumburg.....312-490-0155
 IL Repton Elect Arlington Hts.....312-593-7070
 IN RM Electronics Indpls.....317-291-7110
 IN Marshall Elect Indpls.....317-547-8808
 KS LCOMP Inc Wichita.....316-265-5100
 KS Marshall Elect Lenexa.....313-492-3121
 KS Milgray Overland Park.....913-236-8800
 MD Marshall Elect Gaithersburg.....301-840-9450
 MA ACI Elect Woburn.....617-935-7230
 MA Gerber Norwood.....617-329-2400
 MA Marshall Elect Burlington.....617-272-8200
 MA R-Square Andover.....617-470-3777
 MA Milgray Elect Burlington.....617-272-6800
 MI Repton Elect Livonia.....313-525-2700
 MI RM Electronics Grand Rapids.....616-531-9300
 MI Marshall Elect Livonia.....313-525-5850
 MN Gopher Elect St Paul.....612-483-3322
 MN Marshall Elect Plymouth.....612-559-2211
 MO LCOMP Inc Kansas City.....816-221-2400
 MO Milgray Elect Rockville.....301-468-6400
 NH C & H Elect Hudson.....603-882-1133
 NJ Milgray Marlton.....609-983-5010
 NJ Marshall Elect Fairfield.....201-882-0320
 NJ Marshall Elect Mt Laurel.....609-627-1920
 NJ Nu-Horizons Fairfield.....201-882-8300
 NM Bell Albuquerque.....505-292-2700
 NM Sterling Albuquerque.....505-884-1900
 NY ACI Elect Plainville.....516-293-6630
 NY Marshall Elect Hauppauge.....516-273-2424
 NY Marshall Elect Rodwell.....607-754-1570
 NY Marshall Elect Rochester NY.....716-235-7620
 NY Nu-Horizons Elect Amityville.....516-226-6000
 NY Milgray Farmingdale.....516-420-9800
 NY Milgray Pittsford.....516-385-9330
 NC Resco Raleigh.....919-781-5700
 NC Hammond Greensboro.....919-275-6391
 NC Marshall Elect Dayton.....513-236-8088
 OH Repton Elect Worthington.....614-436-6675
 OH Milgray Cleveland.....216-447-1520
 OR Wyle Labs Hillsboro.....503-640-8000
 OR Marshall Beaverton.....503-644-5050
 PA Marshall Pittsburg.....412-963-0441
 TX Marshall Elect Dallas.....214-233-5200
 TX Marshall Elect Houston.....713-789-6600
 UT Wyle Labs SLC.....801-974-9953
 UT Marshall SLC.....801-261-0901
 WA Marshall Elect Bellevue.....801-747-9100
 WA Wyle Labs Bellevue.....206-453-8300
 WI Marsh Milwaukee.....414-475-6000
 WI RM Elect New Berlin.....414-784-4420
 WI Marshall Brookfield.....414-797-8400
 FR Prelec Elect Ltd Montreal PQ.....514-389-8051
 FR Prelec Elect Ltd Mississauga ON.....416-678-0401
 FR Prelec Elect Ltd Nepean ON.....613-726-1800
 FR Cardinal Indus Elect Edmonton AB.....403-483-6266
 FR Cardinal Indus Elect Calgary AB.....403-259-6817
 FR Zentrionics Brampton ON.....416-451-9600

SHALLCO INC SMITHFIELD
 INDUSTRIAL PK SMITHFIELD
 NC 27577 TWX 510-939-1479.....919-934-3135
 M SUTTON EMP 40 ENG 5
 ADV PGS 449,450

CA WCV/RALTECH Chatsworth.....818-700-0933
 CA Fischer Assoc Santa Clara.....408-733-7350
 IA S & O Sales Cedar Rapids.....310-393-1845
 MA Holden Eng Sales Co Towson.....301-823-3763
 MA MPS Elctns Norwood.....617-769-8700
 NY R J Inc Mpls.....612-866-3661
 NY Dan Hurley Sales Pittsford.....716-586-6159
 NY HLJ Assoc Lynbrook.....516-599-2999

NY Lothar Sanford Corp New York.....212-757-3881
 OH Allen Nace Co Englewood.....513-836-0931
 FR Braydon Electro Montreal PQ.....514-332-5650

DISTRIBUTORS

FL Southeast Elect Jacksonville.....904-356-3007
 OH United Radio Cincinnati.....513-761-4030
 PA Philadelphia Elect Phila.....215-628-7400
 TN Broadcast Equip & Sup Bristol.....615-878-2531
 TX Wholesale Elect Dallas.....214-824-3001

SHALLTRONIX CORP BOX 235 SELMA
 CA 27576.....919-965-6346

SHAMBAN & CO W S 1855 CENTINELA
 AVE SANTA MONICA CA 90404
 TWX 18-2025.....213-397-2199
 W SHAMBAN EMP 450 ENG 40 \$5,000-\$10,000K
 CA Bearing Div Newbury Park.....805-498-4521
 CA Aerospace Div Santa Monica.....213-829-9926
 IN Seals Div Ft Wayne.....219-749-9631

SHANNON LUMINOUS MATERIALS INC
 2520 S FAIRVIEW SANTA ANA
 CA 92704.....714-432-0122
 D CRUCE EMP 5 ENG 2

SHAPE MAGNETRONICS INC
 901 DUPAGE AVE LOMBARD
 IL 60148 TWX 910-991-2352.....312-620-8394

SHAPIRO SCIENTIFIC INSTRUMENTS
 3500 EAST COAST HWY
 CORONA DEL MAR CA 92625.....714-675-1024
 R KILPATRICK EMP 6 ENG 3 \$100-\$250K

SHAW PLASTICS CORP 276
 SNYDER AVE BERKELEY HEIGHTS
 NJ 07922.....201-464-1000
 K BROO EMP 225 ENG 9 OVER \$10,000K

AZ P Fredericks Rimrock.....602-567-4831
 MD R Alden Ridenwood.....301-821-7557
 MA D Whittle No Scituate.....617-545-2835
 MI Bishop Strek Co Detroit.....313-538-0595
 NJ R Johnson Bergenfield.....201-387-0887
 NY Montbach-Sales Glenmont.....518-439-4401
 NC C Dula Winston Salem.....919-768-7166

SHELDALF INC BOX 170 HWY 3 N
 NORTFIELD MN 55057
 TWX 910-565-2180.....507-663-8000
 P O'MALLEY EMP 900 ENG 100 OVER \$10,000K

CA K Mauldin Santa Monica.....213-399-3900
 CA C Kleinhenz San Jose.....408-259-4772
 CO R Nordin Lyons.....303-823-5493
 FL T Eaton Lighthouse Pt.....305-943-7535
 IL R Fiore Lisle.....312-964-4878
 IN T Moore Cicero.....317-984-3852
 MA J McFarlin Acton.....617-264-4433
 MI McPhail Corp Rochester.....313-656-0000
 MN S Kircher New Brighton.....612-633-9595
 NJ E Robbins Milton.....201-697-8394
 NJ J Safarins Pennsauken.....609-665-6155
 OH D Lehnert Hudson.....216-656-1203
 PA T Sturgeon Collegeville.....215-489-9782
 TX H Witek Schertz.....512-659-5618

SHELLEY-RAGON INC 2515
 WABASH AVE ST PAUL MN 55114
 TWX 910-563-3736.....612-542-2828
 R CARLSON EMP 150 OVER \$10,000K
 ADV PGS 32,64,67,69,328,404,405,406,
 409,410,443

AZ Shelley-Ragon Inc Tempe.....602-894-2058
 CA Shelley-Ragon Inc Chatsworth.....818-998-3333
 CA Shelley-Ragon Inc San Jose.....408-942-9111
 CA Shelley-Ragon Inc San Diego.....619-453-7133
 CO Shelley-Ragon Inc Denver.....303-744-3601
 FL Shelley-Ragon Inc Tampa.....813-623-6560
 IL Shelley-Ragon Inc Chicago.....312-595-6633
 IA Shelley-Ragon Inc Cedar Rapids.....319-373-0525
 KS Shelley-Ragon Inc Kansas City.....216-254-3100
 MN Shelley-Ragon Inc St Paul.....612-642-2828
 MO Shelley-Ragon Inc St Louis.....314-454-0480
 NY Shelley-Ragon Inc Bohemia.....516-567-7751
 OR Shelley-Ragon Inc Portland.....503-641-1691
 WA Shelley-Ragon Inc Seattle.....206-241-1980

Principals: Alco Electronic Products, Corning,
 Dale Electronics, Gates Energy Products, Mallory
 Capacitors, Murata Erie North America, RCL
 Shallcross, Stackpole Electronic Components,
 Vishay Resistive Systems Group, VRN International.

SHELLY ASSOC INC 14281
 CHAMBERS RD TUSTIN CA 92680
 TWX 85-2263.....714-669-9850
 C FEENEY EMP 25 ENG 1

SHEPHERD SCIENTIFIC INC
 7100 CONVOY CT SAN DIEGO
 CA 92111.....619-268-9696
 EMP 10 ENG 2

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SHERWIN INC 5530 BORWICK AVE
SOUTH GATE CA 90280.....213-861-6324
A SHERWIN EMP 8 ENG 1 \$1,000-\$2,500K

SHIGMA INC 80 MARTIN LA
ELK GROVE VILLAGE IL 60007
TWX 210259.....800-323-0315
J GIACCHETTI
ADV PG 442

SHINANO KENSHI CORP 7525
ETHEL AVE BLD 1 NORTH
HOLLYWOOD CA 91605
TWX 818-764-6845.....818-764-4266
R IRANI EMP 5 ENG 1 \$2,500-\$5,000K
ADV PG 291

AL MacKay Smith & Assoc Huntsville.....205-539-8000
CA Norcomp Inc Santa Clara.....408-727-7707
CO Tech Rep Sales Denver.....303-758-7031
CT SSI Assoc Bloomfield.....203-243-9343
FL Phoenix Components Inc Sarasota.....813-371-1163
GA MacKay Smith & Assoc Norcross.....904-449-7444
ID Intermountain Tech Mktg Meridian.....208-888-6071
IL Richard Fisk Mktg Barrington.....312-381-0653
MA SIRC Assoc Westford.....617-275-5550
MI Fred Gehrke & Assoc Southfield.....313-559-5363
MN Melcomp Egan.....612-452-9541
NJ Mallin Assoc Oxford.....201-689-7398
NY Automation Equip Co Bedford NH.....603-472-8870
NC Mackay Smith & Assoc Charlotte.....704-372-1188
OK Precision Tech Assoc Richardson TX.....214-234-8071
OR Intertech Sales Portland.....503-775-7885
SC MacKay Smith & Assoc Raleigh.....919-851-5000
TX Precision Tech Assoc Austin.....512-250-0201
UT Intermountain Tech Mktg Murray.....801-262-9353

DISTRIBUTORS
CA Digilog Devices Inc No Hollywood.....213-764-9777
NY Mallin Assoc Oxford NJ.....201-689-7398

S & H INDUSTRIES INC 119
GLEN COVE DR GLEN HEAD
NY 11545.....516-671-5600
C SCHNEIDER EMP 50 ENG 3 \$1,000-\$2,500K

SHIPLEY CO INC 2300 WASHINGTON
ST NEWTON MA 02162
TWX 710-335-6396.....617-969-5500
R LITAVIS EMP 445

AZ L Alford Tempe.....602-894-5499
CA R Fx Irvine.....556-0240
CA J Suydam Santa Clara.....496-0522
FL B Smith St Petersburg.....576-3532
MA W Copley Marlboro.....969-5500
MI S Nolan Southfield.....352-2090
MN B Ahr Bloomington.....888-4673
PA S Butler Allentown.....820-9777
TX B Kiker Irving.....438-2400

SHIVA MULTISYSTEMS CORP
1040 MARSH RD MENLO PARK
CA 94025.....415-321-2350
C PEDEGO EMP 30 ENG 20 \$1,000-\$2,500K

SHIZUKI AMERICA INC 8033
REMMEY AVE CANOGA PARK
CA 91304 TWX 662633.....818-710-8555
J COHEN

AL Interop Assoc Huntsville.....205-533-1730
CO Rep Sales Fort Collins.....303-226-1504
GA Interop Assoc Norcross.....404-449-8680
IL T-Squared Assoc Palatine.....312-991-2144
IN Insul-Reps Inc Indpls.....317-251-1994
MI H E Bowman & Assoc Livonia.....313-261-2772
MN Rockmore Sales Div Eden Prairie.....612-941-1390
MO Hill & Co Creve Couer.....314-432-1136
NH EVA-TEC Amherst.....603-673-4830
NY Bastian Sales Agency East Syracuse.....315-437-1482
NY Bastian Sales Agency Fairport.....716-223-0237
NY Marcus Sales Assoc Great Neck.....516-829-4446
NC Tenn Tech Raleigh.....919-266-1993
OH Allied Enterprises Cleveland.....216-779-0080
PA Allied Entprps Murrysville.....412-325-3200
TN Interop Assoc Greenville.....615-639-3491
TX Reese & Assoc Dallas.....214-351-0703
WI T-Squared Assoc White Water.....414-473-6997

SHOKAI FAR EAST LTD 280
N CENTRAL AVE HARTSDALE
NY 10530 TWX 224219.....914-681-0700
M RUBIN EMP 362 ENG 22 \$5,000-\$10,000K
ADV PG 65

IL Best Rep Chicago.....312-992-1055
PA Electro Rep Lancaster.....717-299-5877
WA Edco Sales Edmonds.....206-776-8922

SHOW 'N TELL PRODUCTS DIV AMG INC
155 FRANKLIN ST DAYTON
OH 45402.....513-223-8211
A BUNN

SHURE BROTHERS INC 222
HARTREY AVE EVANSTON
IL 60202-3696 TWX 910-231-0048.....312-866-2200
L MORGAN

SIDAC ENCLOSURES DIV TRIAC
87-27 MYRTLE AVE GLENDALE
NY 11385.....718-441-4728

SIECOR CORP 489 SIECOR PARK
HICKORY NC 28603 TWX 800546.....704-327-5000
R KELLEY EMP 2000

SIEMENS COMPONENTS INC
186 WOOD AVE S ISELIN
NJ 08830.....201-321-3400
E YOUNG EMP 400 OVER \$10,000K

SIEMENS CORP OPTOELECTRONICS DIV
19000 HOMESTEAD RD CUPERTINO
CA 95014 TWX 910-338-0022.....408-257-7910
G DURGIN EMP 1100 ENG 150 OVER \$10,000K

AL EMA Huntsville.....205-830-4030
AZ Sheffer-Kahn Co Phoenix.....602-257-9015
CA Varigton Assoc El Segundo.....213-322-1120
CA Magna Sales Santa Clara.....408-727-8753
CO Lange Sales Inc Littleton.....303-795-3600
FL Bohman Assoc Apopka.....305-886-1882
IL Metcom Assoc Park Ridge.....212-696-1490
IN Electro Reps Indpls.....317-842-7202
IA Cahill Schmitz & Howe Cedar Rapids.....319-377-8219

MA Anchor Engineering Corp
Newton Upper Falls.....617-964-6205
MI Enco Mktg Bloomfield Hills.....313-642-0203
MN Cahill Schmitz & Cahill St Paul.....612-646-7217
NJ TAI Corp Bellmawr.....609-933-2600
NY T-Squared Elctns Syracuse.....315-463-8592
NC ADI Smithfield.....199-934-8136
OH Doltuss-Root & Co Centerville.....513-433-6776
PA Doltuss-Root & Co Bridgeville.....412-221-4420
TX SC Sales Dallas.....214-620-2294
UT Lange Sales Inc SLC.....801-487-0843
WA Olson, Ferree & Assoc Bellevue.....206-883-7792
WI Metcom West Allis.....414-476-1300

SIERRACIN/MAGNEDYNE 2258
RUTHERFORD RD CARLSBAD
CA 92008 TWX 910-322-1391.....619-438-3321
W OSBORN EMP 150 ENG 13 OVER \$10,000K

AZ T Thatford Scottsdale.....602-998-3009
CA Luscombe Los Gatos.....408-354-6496
CA Comar Co Laguna Bch.....714-540-1219
FL Electrocomp Assoc Ft Lauderdale.....303-564-8571
IL KMA Sales Co Rolling Meadows.....312-398-5300
MD Atlantic Tech Sales Churchill.....301-879-2236
MI Xanthus Inc Troy.....313-528-2000
MN North Star Motion & Controls St Paul.....612-770-5311
NJ Carnes Diamond Assoc Paramus.....201-967-1309
NY Carnes Diamond Assoc Centerport.....516-261-8100
NY Controlled Motion Prods Co Pittsford.....716-381-1933
NC L & D Inc Greensboro.....919-292-3201
OH Servo-Matic Inc Cleveland.....216-871-2353
PA Rivco January King of Prussia.....215-265-5211
TX Thorson Co Dallas.....214-233-5744
WI KMA Sales Co Milwaukee.....414-259-1771

SIERRACIN/POWER SYSTEMS
20500 PLUMMER ST CHATSWORTH
CA 91311 TWX 910-494-4830.....818-998-9873
K LAUCHNER EMP 414 ENG 5 OVER \$10,000K
ADV PG 357

AZ Fred Board Assoc Scottsdale.....602-994-9388
CA Fahnner-Miller Assoc Santa Clara.....408-727-9800
CA J J Riley Assoc Huntington Beach.....714-841-1411
CO Wm J Purdy Co Denver.....303-753-6800
CT Whitehead Assoc Meriden.....203-634-1280
FL Semtronic Assoc Altamonte Sprgs.....305-831-8233
IL Semtronic Assoc Clearwater.....813-461-4675
IL John G Twist Co Elk Grove Village.....312-593-0200
IA R F Welch Co Cedar Rapids.....319-377-1575
KS Midwest Technical Sales Merriam.....913-236-8555
MD Delta III Assoc Columbia.....301-730-4700
MA Whitehead Assoc Wakefield.....617-246-5070
MI Techrep, Inc Ypsilanti.....313-752-1950
MN Comstrand Mpls.....612-788-9234
MO Midwest Tech Sales St Charles.....314-441-1012
NJ Hansen & Hughes Ridgewood.....201-652-7055
NJ BGR Assoc Marlton.....609-983-1020
NY Tech-Mark Inc Mendon.....716-624-3840
NC J & B Sales Raleigh.....919-878-8600
OH KWM Electronic Sales Dayton.....516-890-2150
OR Wm J Purdy Co Beaverton.....503-641-9373
PA KWC Elctn Sales Allison Park.....412-487-4300
TX Kruvand Assoc Dallas.....214-437-3355
WA Wm J Purdy Co Redmond.....206-284-8020
WI John G Twist Co Brookfield.....414-782-2670

DISTRIBUTORS
AL Hallmark Huntsville.....205-837-8700
AZ Hall Mark Phoenix.....602-437-1200
CA FLW Inc Costa Mesa.....714-751-7512
CA Hallmark San Jose.....408-946-0900
CA Hall Mark San Diego.....619-268-1201
CA Hallmark Torrance.....213-217-8400
CA Hallmark Tustin.....714-359-0330
CA Hallmark Citrus Hghts.....916-722-8600
CA Hallmark Canoga Park.....818-716-7300
CA FLW Inc Van Nuys.....818-989-5237
CA Priority One Electronics Chatsworth.....818-709-6789

CA FLW Hayward.....415-786-9070
CO Hall Mark Englewood.....303-790-1662
CT Hallmark Wallingford.....203-269-0100
FL Hallmark Orlando.....305-855-4020
FL Hall Mark St Petersburg.....813-576-8691
FL Repron Tampa.....813-855-4658
FL Hall Mark Ft Lauderdale.....305-855-4020
GA Hallmark Norcross.....404-447-8000
GA Repron Norcross.....404-446-1300
IL Repron Elect Arlington Hts.....312-593-7070
IL Hallmark Woodale.....312-860-3800
KS Hallmark Lenexa.....913-888-4747
MD Hallmark Columbia.....301-988-9800
MA Hall Mark Billerica.....617-935-9777
MI Repron Elect Livonia.....313-525-2700
MN Hallmark Bloomington.....612-854-3223
MO Hallmark Earth City.....314-291-5350
NJ Hallmark Mt Laurel.....215-235-1900
NJ Hall Mark Fairfield.....201-575-4415

NY Hallmark Ronkonkoma.....516-737-0600
NC Hallmark Raleigh.....919-832-0712
OH Hall Mark Worthington.....614-891-4555
OH Hall Mark Solon.....216-349-4632
OK Hallmark Tulsa.....918-665-3200
TX Hallmark Dallas.....214-343-5000
TX Hall Mark Houston.....713-781-6100
TX Hallmark Austin.....512-258-8848
TX Hallmark Dallas.....214-341-1147
UT Hallmark Murray.....801-268-3779
WA Zepher Ragon Seattle.....206-241-1980
WI Hall Mark New Berlin.....414-797-7844

SIERRACIN/THERMAL SYSTEMS
5600 BANDINI BLVD BELL
CA 90201-6407 TWX 910-346-6774.....213-269-9100
J CRAMTON EMP 114 ENG 10 \$5,000-\$10,000K

SIERRA INSTRUMENTS INC BOX 909
CARMEL VALLEY CA 93924.....408-659-3177
J POWERS
TX Sierra Instruments Richardson.....214-437-6692

SIERRA SCIENTIFIC SUNNYVALE
MOUNTAIN VIEW CA 94089
TWX 172028.....408-745-1500
D GILBLOM EMP 130 ENG 12 OVER \$10,000K
CT Sierra Scientific Northford.....203-484-9438
OH Sierra Scientific Mentor.....216-461-8035

SIERRA SEMICONDUCTOR CORP
2075 N CAPITAL AVE SAN JOSE
CA 95132 TWX 384467.....408-263-9300
J REYNOLDS EMP 150 ENG 120

AL Electramark Huntsville.....205-883-9948
AZ Tusar Scottsdale.....602-998-3688
CA Brooks Technical Group Mt View.....415-960-3880
CA Littlefield & Smith San Diego.....619-455-0055
CO Front Range Mktg Boulder.....303-443-4780
CT Lindco Assoc Southbury.....203-264-7200
FL Semtronic Assoc Altamonte Springs.....305-831-8233
GA Electramark Norcross.....404-446-7915
IL KMA Sales Rolling Meadows.....312-398-5300
MD Pro Rep Columbia.....301-992-7460
MA Sierra Semiconductor Concord.....617-933-3336
NJ Emtec Sales East Hanover.....201-428-0600
NY Emtec Sales Melville.....516-220-9647
OR L-Squared Beaverton.....503-644-8555
UT Front Range Mktg SLC.....801-364-6481
WA L-Squared Seattle.....206-522-5221
WI KMA Sales Milwaukee.....414-259-1771
FL Semtronic Assoc Puerto Rico.....809-766-0071

DISTRIBUTORS
TX Hall-Mark Corp Office Dallas.....214-343-5866

SIFCO SELECTIVE PLATING
DIV SIFCO IND INC 5708
SCHAAF RD CLEVELAND OH 44131
TWX 810-421-8461.....216-524-0099
P NELSON EMP 31 ENG 4 \$2,500-\$5,000K
CA Sifco Selective Plating Monrovia.....213-357-7976

SIGMA INSTRUMENTS INC FISHER
PIERCE DIV 170 PEARL ST
BRAINTREE MA 02184
TWX 710-348-1161.....617-843-5000
K CHAM EMP 1,400 ENG 40 OVER \$10,000K
AZ Young of Arizona Scottsdale.....602-991-9191
AR Curtis H Stout Inc Little Rock.....501-372-2555
CA Wrathall & Krusi San Francisco.....415-777-0226
CA Calectro Glendora.....818-335-3904
CO Power Equip Specialists Arvada.....303-423-2741
FL Arnold Bryant Inc Lake Worth.....305-964-8406
GA Remote Control Sys Co Atlanta.....404-447-9777
HI Kemp Assoc Kailua.....808-834-6995
IN Cory Crum & English Indpls.....317-248-0661
KS Utility Sales Shawnee Mission.....913-492-5595
LA Curtis H Stout Inc New Orleans.....504-846-3707
MD J B Sales Easton.....301-822-9611
MA C H Foster Walpole.....617-668-5559
MI Dale P Seyfried Co Dearborn.....313-274-4900
MN Dolan-Feldhaus Mpls.....612-926-6504
MS Curtis H Stout Inc Jackson.....601-353-9602
MO Electronep Maryland Hts.....314-991-2600
NE Clatterbaugh Howrey Omaha.....402-592-4130
NJ Peter F Sheridan Inc Englewood Cliffs.....201-567-0353

NY Bryant Co Albuq.....505-843-9450
NY Keeler-Miller Assoc Lynbrook.....516-887-7711
NC W R Daniel & Assoc Charlotte.....704-376-8603
OH Jay G Gates Co Cincinnati.....513-489-7633
OK Hartman Sales Agency Okla City.....405-840-9315
PA Sirkoch Inc Coraopolis.....412-262-3320
TN Curtis H Stout of TN Memphis.....901-362-1616
TX Oberlander & Assoc Dallas.....214-343-1946
UT Riter Eng Co SLC.....801-973-9063
WA McKalg Engrg Sales Inc Seattle.....206-763-9160
WI Banghart & Assoc Elm Grove.....414-786-4484

SIGMA INSTRUMENTS INC MOTION
CONTROL DIV 170 PEARL ST
BRAINTREE MA 02184
TWX 710-348-1161.....617-843-5000
S FOSDICK EMP 1400 ENG 40 OVER \$10,000K
ADV PG 290

CA ESCO Fullertown.....714-879-7260
CO Component Sales Englewood.....303-779-8060
CT Motors of New Eng Canton.....203-693-6366
FL Werndlicoke Assoc Orlando.....305-851-1923
IL Control Sales Elk Grove Village.....312-595-2110
MA Motoreps Inc Needham.....617-449-3252
MI Jim Finnegan & Co Spring Lake.....616-846-4980
MN Northstar Motion & Control Inc St Paul.....612-770-5311
MO Cen Tech Inc Bridgeton.....314-231-4230
NJ Motoreps Inc Red Bank.....201-741-3356
NY H C Johnson Agencies Rochester.....716-586-0777
NC Electro Rep Assoc Charlotte.....704-527-2530

OH	Jim Finnegan & Co Dayton	513-890-8322
OH	Jim Finnegan & Co Cleveland	216-238-5905
OR	J J Backer Co Portland	503-297-8744
PA	Jim Finnegan & Co Pittsburgh	412-823-5400
TX	Blackburn Assoc Dallas	214-692-8885
UT	Component Sales SLC	801-268-8440
WA	J J Backer Co Seattle	206-285-1300
WI	Control Sales Thiensville	414-242-4580

DISTRIBUTORS

CA	Adam-Hill Co S San Francisco	415-589-9655
CA	Mechanical Drive Systems Tustin	714-838-4441
CT	Electrotech Sales Corp Milford	203-877-1241
FL	Electronic Technology Orlando	305-291-1047
IL	Revere Elec Chicago	312-738-3636
IN	Hutch & Son Evansville	812-425-7201
MD	Dorman Elec Supply Co Baltimore	301-727-0710
MA	EMX Controls Uxbridge	617-278-7225
MI	McNaughton & McKay Madison Hts	313-399-7500
MI	McNaughton & McKay Ann Arbor	313-995-9515
MI	Axis Systems Troy	313-689-7575
MI	Girkins Elec West Bloomfield	313-851-0350
MN	Power Control Long Lake	612-473-0051
NJ	Industrial Controls Dist	
	Wanamassa	201-870-6200
NY	Wehle Electric Co Buffalo	716-854-3270
NY	Wehle Electric Co Binghamton	607-722-2394
NY	Wehle Electric Co Elmira	607-733-6646
NY	Wehle Electric Co Rochester	716-461-0200
NY	Great Lakes Controls Victor	716-924-9060
NC	Motion Industries Greenville, SC	803-288-7503
OH	Girkins Elec Co Toledo	419-479-5000
OH	Machine Drive Co Cincinnati	513-793-7077
OH	Cinc Belt & Transmission	
	Cincinnati	513-621-9050
OH	Great Lakes Controls Columbus	614-451-7872
OH	Great Lakes Controls No Royalton	216-582-0020
PA	Great Lakes Controls Pittsburgh	412-341-8917
SC	Motion Industries Greenville	803-288-7503
TX	Motion Industries Dallas	214-351-2211
TX	Motion Industries Ft Worth	817-335-8131
TX	Motion Industries Lufkin	713-634-4428
TX	Motion Industries Marshall	214-938-6668
UT	Bell Industries SLC	801-972-6969

SIGMA INSTRUMENTS INC SWITCHING

	DIV 170 PEARL ST BRAINTREE	
	MA 02184 TWX 710-348-1161	617-843-5000
	D BELCHER EMP 1400 ENG 40 OVER \$10,000K	
AL	J H U Assoc Brownsboro	205-536-7455
AZ	Bill Earl Assoc Scottsdale	602-994-3813
CO	Component Prod Sales Co Boulder	303-530-2800
FL	Lawrence Assoc Boca Raton	305-368-7373
GA	J H U Assoc Atlanta	404-662-0792
IL	Control Sales Elk Grove Village	312-595-2110
IN	Advanced Comp Sales Ft Wayne	211-484-0722
MI	Greiner Assoc Grosse Pointe	313-499-0188
MN	Northstar Components Mpls	612-553-1888
MO	Centech Inc Raytown	816-358-8100
NY	Madison-Esco Inc Hauppauge	516-273-3500
OH	Midwest Mktg Assoc Dayton	513-433-2511
OK	J Y Schoonmaker Co Okla City	405-235-4422
PA	H C Johnson Agencies Glenshaw	412-961-0414
UT	Component Prods Sales Woodcross	801-292-8882
WA	W3C Technology Group Seattle	206-285-2667
WI	Control Sales Thiensville	414-242-4580

DISTRIBUTORS

AL	Kierulff Huntsville	205-883-6071
AZ	Kierulff Elect Phoenix	602-243-4101
AR	Carlton Bates Co Little Rock	501-562-9100
CA	Rose Elect San Jose	408-263-9700
CA	Kierulff Elect City of Commerce	313-725-0325
CA	Master Distb Santa Monica	213-452-1229
CA	Kierulff Elect San Diego	619-278-2112
CA	Kierulff Elect Tustin	714-731-5711
CO	Kierulff Elect Englewood	303-790-4444
CT	Midan Elect Wallingford	203-265-2077
FL	Kierulff Elect St Petersburg	813-576-1966
GA	Kierulff/Atlanta Norcross	404-447-5252
HI	Industrial Elect Honolulu	808-533-6095
IL	Newark Elect Chicago	312-784-5100
IN	Meunier Elect Indpls	317-635-3511
IN	Hutch & Son Evansville	812-425-7201
IN	Graham Elect Ft Wayne	219-423-3422
IA	Newark Elect Cedar Rapids	319-362-1171
LA	MG Elect Ept Harahan	504-733-0070
LA	Menard Elect Baton Rouge	504-355-0323
MD	Newark Elect Beltsville	301-937-5085
MA	Kierulff Billerica	617-667-8331
MI	Advent Elect Farmington	313-477-1650
MI	Kierulff Elect Edina	612-941-7500
MO	Kierulff Elect Maryland Hts	314-739-0855
NE	Radio Equip Co Omaha	402-341-7700
NH	C & H Elect Hudson	617-273-4450
NJ	Kierulff Elect Fairfield	201-575-6750
NM	Bell Ind Albuquerque	505-292-2700
NY	Pioneer Woodbury	516-921-8700
NY	Adirondack Elect Albany	518-456-0203
NY	Pioneer/Bing Vestal	607-748-8211
NY	Summit Distb Buffalo	716-884-3450
NY	Simconia Elect Rochester	716-328-3230
NY	Jaco Elect Hauppauge	516-273-5500
NY	New York Elect Mamaroneck	914-698-7600
NC	Kierulff Elect Raleigh	919-872-8410
NC	Dixie Elect Winston Salem	919-724-5961
OH	Kierulff Elect Bedford Hts	216-587-6558
OH	Kierulff Elect Dayton	513-439-0045
OK	Kierulff Electronics Tulsa	918-252-7537
OR	Kierulff Elect Portland	503-641-9150
PA	Kierulff Elect Philadelphia	609-235-1444
RI	Major-Edwards Elect Pawtucket	401-725-7400
RI	Wm Dandrea & Co Providence	401-861-2800
SC	Dixie Elect Greenville	803-233-5368
TN	Electra Distb Co Nashville	615-329-3971
TN	Industrial Electronic Knoxville	615-573-7135
TN	Bluff City Distb Memphis	901-345-9500
TX	Kierulff Elect Austin	512-835-2090
TX	Kierulff Elect Houston	713-530-7030
UT	Kierulff Elect SLC	801-973-6913

WA	Kierulff Elect Tukwila	206-575-4420
WV	McJunkin Corp Charleston	304-348-5211
WI	Kierulff Elect Waukesha	414-784-8160

SIGMAPOWER INC 20790 LEAPWOOD

	AVE CARSON CA 90746	
	TXW 510-100-4745	213-327-4462
	W ADAMS EMP 66 ENG 4 \$1,000-\$2,500K	

SIGMA SYSTEMS CORP 3163

	ADAMS AVE SAN DIEGO CA 92116	619-283-3193
	T STEWART EMP 18 ENG 4 \$1,000-\$2,500K	

SIGMOTEC INTERNATIONAL CORP.

	327 CLARKIN CT WALNUT CREEK	
	CA 94596	415-943-7411
	E SONG EMP 8 ENG 5 \$500-\$1,000K	
CA	Cutlass Elctns Torrance	213-327-7360

SIGNAL PROCESSING SYSTEMS INC

	223 CRESCENT ST WALTHAM	
	MA 02154 TWX 710-324-6503	617-891-0400
	W BOOTH EMP 25 ENG 10 \$2,500-\$5,000K	
AL	Magaro & Assoc Huntsville	205-882-0827
GA	Magaro & Assoc Atlanta	404-252-6609
NC	Magaro & Assoc Greensboro	919-294-4783

SIGNALS COMMUNICATIONS CORP

	BOX 4833 MANCHESTER NH 03108	
	TXW 953050	603-669-0600
	J NUGENS EMP 10 ENG 3	

SIGNAL TRANSFORMER CO INC

	500 BAYVIEW AVE INWOOD	
	NY 11696 TWX 96-8112	516-239-5777
	G CARLIN EMP 200 ENG 4 OVER \$10,000K	
	ADV PGS 500,502,505	

SIGNATRON INC 12 HARTWELL AVE

	LEXINGTON MA 02173 TWX 299551	617-861-1500
	J MCNAMARA EMP 125 ENG 80 \$5,000-\$10,000K	

SIGNETICS CORP 811 ARQUES

	AVE BOX 3409 SUNNYVALE	
	CA 94088 TWX 910-339-9283	408-991-2000
	A ENAMAIT EMP 8500 ENG 500 OVER \$10,000K	

DISTRIBUTORS

CA	Hamilton Avnet Elect Culver City	213-558-2645
CA	Wyle Labs EMG Santa Clara	408-727-2500
CA	Anthem Elect San Jose	408-946-8000
MA	Lionex Corp Wilmington	617-657-5170
NY	Arrow Elect Melville	516-391-1300
NY	Schweber Elect Westbury	516-334-7474
NY	Summit Dist Buffalo	716-887-2836
TX	Quality Components Addison	214-733-4300
FR	Zentronics Ltd Brampton ON	416-451-9600
FR	Arrow Canada Montreal PQ	514-735-5511

SILICON GENERAL SEMICONDUCTOR DIV

	11651 MONARCH ST GARDEN GROVE	
	CA 92641 TWX 910-5961804	714-898-8121
	EMP 175 ENG 15 OVER \$10,000K	

SILICONIX INC 2201 LAURELWOOD RD

	SANTA CLARA CA 95054	
	TXW 910-338-0227	408-988-8000
	W SENGES EMP 2000 ENG 223 OVER \$10,000K	

AL	Rep Inc Huntsville	205-881-9270
AZ	Quatra Assoc Tempe	602-820-7050
CO	Siliconix Inc Englewood	303-779-1575
CT	Siliconix Ridgefield	203-431-3535
FL	Semtronix Assoc Altamonte Springs	305-831-8233
GA	Rep Inc Tucker	404-938-4358
IL	Electron Mktg Corp Des Plaines	312-298-2330
IN	Wilson Tech Sales Indpls	317-298-3345
IA	Electromec Sales Cedar Rapids	319-362-6413
KS	PMR Inc Overland Pk	913-381-0004
MD	Pro Rep Columbia	301-992-7460
MA	Siliconix Inc Waltham	617-890-7180
MI	A P Assoc Brighton	313-229-6550
MI	Electronic Sales Burnsville	612-894-8200
MO	PMR Inc St Louis	314-569-1220
NJ	R T Reid Assoc Teaneck	201-692-0200
NY	Tri-Tech Elctns Endwell	607-754-1094
NY	R T Reid Assoc Melville	516-351-8833
NC	Rep Inc Charlotte	704-563-5554
OH	Siliconix Inc Westlake	212-835-4470
TN	Rep Inc Jefferson City	615-475-4105
TX	Siliconix Inc Carrollton	214-385-4046
WA	Blair Hirsch Co Lynnwood	206-774-8151
WI	Larson Assoc Wauwatosa	414-258-0529

DISTRIBUTORS

CA	Wyle Dist Santa Clara	408-727-2500
CA	Hamilton Avnet Culver City	213-558-2121
CA	Bell Indus Sunnyvale	408-734-8570
FL	Pioneer Elect Altamonte Springs	305-834-9090
MD	Pioneer/Wash Gaithersburg	301-921-0660
MA	Marshall Ind Burlington	617-272-8200
MN	Industrial Comps Mpls	612-831-2666
NM	Hamilton/Avnet Albuquerque	505-765-1500
NY	Hamilton/Avnet Hauppauge	516-231-9800
NY	Marshall Ind Hauppauge	516-273-2424
OH	Pioneer/Cleve Cleveland	216-587-3600
TX	Quality Comps Austin	512-835-0220
WI	Marsh Elect Milwaukee	414-475-6000
FR	RAE Elctns Burnaby BC	604-291-8866

SILICON SENSORS INC HWY

	18 EAST BOX 137 DODGEVILLE	
	WI 53533 TWX 910-907-0072	608-935-2707
	EMP 28 ENG 4 \$1,000-\$2,500K	

CA	DeAngelo Rothman & Co Culver City	213-827-2202
CA	Leddy Assoc Mt View	415-969-6313
FL	J W Bolton Assoc Ft Lauderdale	305-491-5161
IL	Probe Elctns Park Ridge	312-696-2828
MA	NEMA Acton	617-263-4870

MI	Greiner & Assoc Grosse Pointe	313-499-0188
MN	Bill Deming & Assoc Mpls	612-888-5000
NJ	Controlyne Inc Montclair	201-746-8900
NY	Ironduquait Industries Rochester	716-544-6257
NC	Zim-Tec Sales Fayetteville	919-485-2222
TX	Eagle Marketing Richardson	214-238-5383
WA	ECCO Marketing Seattle	206-364-0200

SILICON SYSTEMS INC 14351

	MYFORD RD TUSTIN CA 92680	
	TXW 910-595-2809	714-731-7110
	J SCHENCK EMP 645 ENG 92 OVER \$10,000K	

SILICON TRANSISTOR CORP

	KATRINA RD CHELMSFORD	
	MA 01824 TWX 710-343-0576	617-256-3321
	B ROTHMAN EMP 180 ENG 30 \$5,000-\$10,000K	

SILONEX INC 331 CORNELIA ST
PLATTSBURGH NY 12901

	TXW 610-421-3362	518-561-3160
	C LARSEN EMP 140 ENG 7 \$2,500-\$5,000K	
	ADV PG 318	

CA	Van Gott & Assoc Arcadia	818-445-9728
CA	Service Industries San Mateo	415-573-1816
CT	LJM Assoc Branford	203-488-4244
IL	Hill Sales Corp Buffalo Grove	312-541-0681
MA	RFC Assoc Topsfield	617-887-8545
MI	Amtech Reprs Farmington	313-473-8300
MN	Northport Eng Co St Paul	612-457-8000
NJ	T J Sales Inc Fairfield	201-667-5900
TX	J Clay Co Dallas	214-350-1281
WA	Rhodes Sales Corp 7034	
	S 188 St Kent	206-251-5396
FR	Silonex Inc Altrincham Cheshire	061-928-3417
FR	MCA Tronix 2289 BA Rijswijk	015-134940
FR	HESA S P A Milano	02 34.91.693
FR	Egli Fischer & Co Ltd Zurich	2020234
FR	J P Lemaire Limburg Stirum	02-460-05-60
FR	Electro-Radio Ltd Sao Paulo	35-6294
FR	Belpot Electronica Madrid	262-88-37
FR	Yleiselektronikka oy Lumannoro	90-45-212
FR	Warburton O Donnell Ltd	
	Chatswood NSW	40-3261
FR	Eneka S A Montevidéo	90 79 96
FR	Electronics Comps Modules	
	SA Mexico	575-84-65

SILTRAN DIGITAL 2250 MONTEREY RD

	ATASCADERO CA 93422	805-466-3209
AZ	G Moore Assoc Tempe	602-839-3458
CA	Controls for Industry San	
	Gabriel	213-289-6958

CO	G Moore Assoc Boulder	303-494-3351
NM	G Moore Assoc Albuquerque	505-262-1416
PA	Control Instrument Sales	
	Bethayres	215-676-1808
VA	Johnson Custom Controls Roanoke	703-981-0780

SILVER & ASSOC G H BOX 21

	NEWTOWNVILLE MA 02160	617-965-1636
	G SILVER EMP 4 ENG 3 UP TO \$100K	

SILVER GLO PICTURE TUBE LTD

	12418 66 ST EDMONTON	
	AB T5B 1K4 TWX 037-2966	403-474-5056
	EMP 10 ENG 1	

SIMCO CO INC 2257 N PENN RD

	HATFIELD PA 19440 TWX 846130	215-822-2171
	B KEISER EMP 95 ENG 6 OVER \$10,000K	

AZ	Foley-Tallent & Lee Tempe	602-438-1564
CA	Dryden Engrg Santa Clara	408-727-7321
CA	C C Stevens Assoc Ventura	805-658-0207
FL	Marketiers Corp Clearwater	813-443-4302
IL	Dwight Smith & Assoc Aurora	

TX Rich Sales Rockwall.....214-257-0761
WA SPECI Seattle.....206-789-4555
WV John Olsen Co Pittsburgh PA.....412-341-8391

DISTRIBUTORS

NH EPE Londonderry.....603-669-9181

SIMONDS CUTTING TOOLS HOUSEHOLD
INTL BOX 500 FITCHBURG
MA 01420 TWX 92-8414.....617-343-3731
J HAKANSON EMP 1000 OVER \$10,000K
CA Simonds Cutting Tools Norwalk.....213-802-2689

SIMPSON ELECTRIC CO 853
DUNDEE AVE ELGIN IL 60120
TWX 72-2416.....312-697-2260
M BUEHRING EMP 1500 ENG 100
AK Harry J Lang Assoc Anchorage.....907-279-5741
CA W J Purdy Assoc Burlingame.....415-347-7701
CA Simpson Elec Co Downey.....213-862-4259
CO W J Purdy Co Denver.....303-753-6800
CT Sturgeon Co Hartford.....203-249-7800
FL Seacom Sales Co Lauderdale Lakes.....305-486-0260
GA Cartwright & Bean Atlanta.....404-233-2939
IN Technology Mkt Corp Carmel.....317-844-8462
KS Kathrinus-Kelly-Baumhauser
& Co Blue Springs MO.....816-229-0001
LA Cartwright & Bean Covington.....504-892-1780
MD S K Macdonald Inc Lisbon.....301-442-1590
MA Sturgeon Co Needham.....617-444-6603
MI R C Merchant & Co Farmington
Hills.....313-476-4600
MN M Foster Co Inc Edina.....612-941-9790
MO Kathrinus-Kelly & Co St Louis.....314-968-3800
NM C T Carlberg & Assoc Albuquerque.....505-888-3883
NY Simpson Instr Sales Great Neck.....516-482-3103
NY Leonard D Allen Inc Syracuse.....315-437-8387
NC Cartwright & Bean Charlotte.....704-377-5673
OH Baehr Greenleaf & Assoc
Cleveland.....216-221-9030
OK J Y Schoonmaker Co Okla City.....405-235-4422
OR Earl & Brown Co Portland.....503-245-2283
PA S K Macdonald Inc Phila.....215-545-1205
TN Cartwright & Bean Memphis.....901-279-4442
TX J Y Schoonmaker Co Dallas.....214-349-1650
WA Earl & Brown Co Seattle.....206-284-1121
WI D Dolin Sales Milwaukee.....414-482-1111
FR Bach-Simpson Ltd London ON.....519-452-3200

SINCLAIR RADIO LABS INC
675 ESMINGER RD TONAWANDA
NY 14150 TWX 438063.....716-874-3682
G MAYHEW EMP 42 ENG
CA Communications Mktg Co Van Nuys.....818-994-4455
CA Sinclair Radio Labs Riverside.....714-351-8081
CO Aurora Mktg Co Denver.....303-758-3051
FL Cemco Coral Springs.....305-753-6777
NY RT Moses & Co Bellmore.....516-879-8774
WA Manon Engineering Kirkland.....206-827-7449
FR Sinclair Radio Labs Ltd
Concord ON.....416-669-1244
FR Sinclair Radio Labs Ltd
Surrey BC.....605-530-9751
FR Sinclair Radio Labs Ltd
Dorval PQ.....514-636-1979
FR Sinclair Radio Labs Ltd
Winnipeg MB.....204-783-4498

DISTRIBUTORS

IL Primus Electronics Joliet.....815-436-8945

SINCLAIR & RUSH INC 6916
S BROADWAY ST LOUIS MO 63111
TWX 442564.....314-481-2450
EMP 100 ENG 2

SINGER CO CONTROLS DIV
9655 W SORENG SCHILLER PK
IL 60176 TWX 72-8342.....312-678-4150
R VAN DUSEN EMP 2500 OVER \$10,000K

SINGER CO KEARFOTT DIV
1150 MCBRIDE AVE LITTLE FALLS
NJ 07424 TWX 710-988-5700.....201-785-6000
M GORDON OVER \$10,000K
AL Kearfott Div Huntsville.....205-830-1379
CA Kearfott Div Ingleswood.....312-776-5730
IL Kearfott Div Oakbrook.....312-654-0800
MO Kearfott Div St Louis.....314-521-0100
OH Kearfott Div Dayton.....513-222-8942
TX Kearfott Div Irving.....214-252-7423
VA Kearfott Div Arlington.....703-329-5850

SITCO ANTENNAS 10330 NE MARX ST
PORTLAND OR 97220 TWX 200-479.....503-253-2000
G BERLINER EMP 18 ENG 2 \$500-\$1,000K

SITTLER CORP 18 N ADA ST
CHICAGO IL 60607.....312-733-4616
F BAMBULE EMP 8 ENG 2 \$500-\$1,000K

SJOBERG & SON INC 415 STATION ST
CRANSTON RI 02910.....401-461-8220
EMP 10 ENG 3 \$250-\$500K

SKAN-A-MATIC CORP RT 5 WEST
ELBRIDGE NY 13060
TWX 710-545-0220.....315-689-3961
G VIDIKIS EMP 175 ENG 20 OVER \$10,000K

AZ Luscombe Engr Co Scottsdale.....602-949-9333
CA Luscombe Engr Co Campbell.....408-370-2020
CA Luscombe Engr Co Pasadena.....213-684-2000
CO Process Cntrl Dynamics Lakewood.....303-237-0443
CT Abbott-Allison Co Branford.....203-481-0405
FL APM Assoc Tampa.....413-886-2457
GA Hile Controls of GA Woodstock.....404-928-6844
IL Control Sales Elk Grove Village.....312-695-2110
IN K Schneider New Haven.....219-493-7387
MA Abbott-Allison Co Greenbush.....617-245-0250
MI Hollicon Pontiac.....313-682-8490

MN Bohlig & Assoc Eden Prairie.....612-944-8404
NJ Ossmann Comp Tech Edison.....201-225-4011
NY L-Tron Assoc Rochester.....716-436-4410
NC W K Hile Co Matthews.....704-847-9125
OH HollCom Org Cleveland.....216-486-2999
PA C A Briggs Co Glenside.....215-885-2244
TN Hile Controls Knoxville.....615-584-0208
TX Measurement Sys & Sales Dallas.....214-243-5781
VA Process Specialties Richmond.....804-794-2511
WA Al Smith Co Bellevue.....206-746-6770

SKF INDUSTRIES INC 1100
FIRST AVE KING OF PRUSSIA
PA 19406-1352 TWX 510-660-2660.....215-265-1900
K CARRIGAN EMP 5000 ENG 200 OVER \$10,000K

AL SKF Industries Birmingham.....988-4232
AZ SKF Industries Phoenix.....971-0116
CA SKF Industries Westlake Vlg.....991-91770
CA SKF Industries Walnut Creek.....943-1800
CO SKF Industries Englewood.....850-9431
CT SKF Industries Rocky Hill.....529-6871
FL SKF Industries Orlando.....896-8571
GA SKF Industries Marietta.....426-6653
IL SKF Industries Rolling Meadows.....992-3732
IA SKF Indus Inc Davenport.....322-7105
MI SKF Industries Southfield.....353-5255
MN SKF Industries Bloomington.....884-2402
MO SKF Industries St Louis.....647-3444
NV SKF Industries Reno.....323-0311
NJ SKF Industries Cranford.....272-9646
NY SKF Ind Inc Amherst.....858-5244
NC SKF Industries Charlotte.....637-5540
OH SKF Industries Beachwood.....491-9200
OK SKF Industries Tulsa.....622-7330
OR SKF Industries Portland.....297-8076
PA SKF Industries Pittsburgh.....931-2955
TN SKF Industries Memphis.....682-4323
TX SKF Industries Dallas.....387-7977
UT SKF Industries Salt Lake City.....248-6633
WI SKF Industries Brookfield.....785-9920

S K G ASSOCIATES INC 249 HIGH ST
NORWELL MA 02061.....617-878-7250
EMP 16 ENG 3 \$250-\$500K

SKINNER VALVE DIV HONEYWELL INC
95 EDGEWOOD AVE NEW BRITAIN
CT 06050 TWX 203-225-2591.....203-827-2310
M ALLEN EMP 375

CA D Parmaley Burbank.....767-5045
CA P Stimba Oakland.....482-4217
CO R McDonnell Englewood.....792-1306
GA T McGee Roswell.....491-7920
IL J J Cipolla Hoffman Estates.....941-2999
MI J E Anderson Columbiaville.....762-1969
MN R F Reiersen Burnsville.....332-1041
NH D M Maloney Hudson.....889-1481
NJ G Kachoghian Bricktown.....248-6336
NY R Dushion Holley.....244-3180
NC R J Busta Clemmons.....766-8065
OH M Faulhaber Cincinnati.....244-9003

SKYDYNE A BROOKS & PERKINS
DIV AAR CORP RIVER RD
PORT JERVIS NY 12771
TWX 510-260-1249.....914-856-6655
M TIMNEY EMP 75 ENG 6

SKYWAY MAGNETICS 35372 HWY 79
WARNER SPRINGS CA 92086.....619-782-3342
J GRUDZIADZ EMP 12 ENG 2 \$100-\$250K

SLAUGHTER CO MOORE & HAILEY STS
ARDMORE OK 73401.....405-222-4773

SL ELECTRONICS DIV SL IND INC
300 HARVARD AVE WESTVILLE
NJ 08093 TWX 844509.....609-456-7300
D HOLDSTEIN EMP 90 ENG 6

SLOAN CO 7704 SAN FERNANDO RD
SUN VALLEY CA 91353.....213-875-1123

SLOAN TECHNOLOGY CORP 602
E MONTECITO ST SANTA BARBARA
CA 93103 TWX 910-344-4901.....805-963-4431
B WRIE EMP 125 ENG 28 \$5,000-\$10,000K

AZ Micro-tec West Phoenix.....602-892-6662
CA Micro-tec West Santa Ana.....714-547-5941
CA Process Physics San Jose.....408-942-1611
CO Semi-Torr Assoc Colo Springs.....303-593-7881
FL GR Assoc Lake Worth.....305-965-5111
IL Byron Ellis Assoc Des Plaines.....312-298-7626
MA Industrial Equip & Sales
Wellesley.....617-431-1490
NY Hybrid Sales Corp Bohnemia.....616-589-1700
OH Byron Ellis Assoc Berea.....216-826-0559
PA Hybrid Sales Corp Bethlehem.....215-867-0612
TX Moore Assoc Richardson.....214-690-4929
FR Tasman Scientific Mississauga ON.....416-677-8512

SL PLASTICS 2860 BATH PIKE
NAZARETH PA 18064.....215-759-0280
A KROBOTH EMP 60 \$2,500-\$5,000K

SL WABER 300 HARVARD AVE
WESTVILLE NJ 08093 TWX 844509.....609-456-5400
S HAMMILL EMP 170 ENG 5
ADV PGS 284,311

AL Hollingsworth & Still Huntsville.....205-772-0310
CA Carelli-EMA Burlingame.....415-342-5546
CA Ungar Sales Assoc Gardena.....213-538-2811
CO Walter Eng Assoc Denver.....303-777-5585
FL Hollingsworth & Still Orlando.....305-859-9423
FL Hollingsworth & Still Winter
Park.....305-678-2858
FL Hollingsworth & Still Newberry.....305-431-1631
GA Hollingsworth & Still Norcross.....404-447-1700
HI Gene Piety Factors Honolulu.....808-839-9059
IL W Linz Assoc Northbrook.....312-498-9600

IN R Misk Indpls.....317-842-3400
ND David S Linz Co Silver Spring.....301-593-2477
MA K J Walsh Assoc Scituate.....617-545-3145
MI R Misk Co Southfield.....313-354-3310
MN Hel-Lite Sales Inc Mpls.....612-861-6051
MO Kathrinus-Kelly & Co St Louis.....314-968-3800
MO Kathrinus-Kelly Blue Springs.....816-229-0001
NM C T Carlberg & Assoc Albuquerque.....505-265-1579
NY Warren Kaufman & Assoc Rochester.....716-266-2728
NY J Brown Elctn Sls Massapequa
Park.....516-795-3903
NY J Brown Elctn Sls Whitestone.....212-352-2710
NC Hollingsworth & Still
Kernersville.....919-996-4222
OH Electronic Salesmasters
Beechwood.....216-831-9555
OR Wm J Purdy Co Portland.....503-641-9373
PA D S Linz Co Philadelphia.....215-379-0734
PA Covert & Newman Co Pittsburgh.....412-531-2002
TX Forner Sales Co Dallas.....214-241-2166
WA Wm J Purdy Co Seattle.....206-284-8020
WI Wm M Linz Assoc Brookfield.....414-782-0630

DISTRIBUTORS

AL Mock Elctns Huntsville.....205-539-2401
AZ Parts Elctn Phoenix.....602-528-6476
AZ Inland Elect Tucson.....602-889-5301
AR Carlton Bates Co Little Rock.....501-562-9100
CA Al Lasher's Dealer Elect
Berkeley.....415-843-5915
CA Mar Vac Elctns Costa Mesa.....714-540-3280
CA Claude Michael El Monte.....213-696-0141
CA Orvac Elctns Fullerton.....714-871-1020
CA Western Elctns Glendale.....213-246-4861
CA Yale Radio Hollywood.....213-465-3186
CA Abacus Elctns Mt View.....415-961-1500
CA Brill Elctns Oakland.....415-834-5888
CA Dow Radio Pasadena.....213-793-1195
CA Electronic Supply Riverside.....714-836-7300
CA Shanks & Wright San Diego.....714-239-0176
CA Zack Elctns San Francisco.....415-626-1444
CA Quement Elctns San Jose.....408-998-5900
CA Com-Kyl Inc Sunnyvale.....408-734-9660
CA Sandy's Electron Supply
Canoga Park.....213-346-8353
CA Calif Switch & Signal Gardena.....213-770-2330
CA Pacific Radio Exchange Hollywood.....213-462-1393
CA Zack Elctns Palo Alto.....415-326-5432
CO Denver Wintronics Denver.....303-934-2406
CO Elctn Parts Denver.....303-744-1992
CO Fiestell's Elctns Supply Denver.....303-629-1312
CT Mar Le Co Stamford.....203-348-2645
CT Suburban Supply Waterbury.....203-757-1251
FL Elctn Equip Miami.....305-871-3500
FL ESL Elctn Distrib Miami.....305-633-6973
FL Hammond Elctns Orlando.....305-849-6060
FL Groce Elctns Pensacola.....904-434-2481
GA Specialty Distrib Atlanta.....404-873-2521
GA Ack Radio Supply Atlanta.....404-351-6340
IL Newark Electronics Chicago.....312-638-4411
IL Joseph Elctn Niles.....312-297-4200
IL Klaus Radio & Elctns Peoria.....309-691-4840
IL Mid-West Assoc Rockford.....815-962-8036
IL GBL Elect Elk Grove.....312-593-3220
IL Classic Components Northbrook.....312-272-9650
IL Ohm Electronics Palatine.....312-359-5500
IN Acro Elctns East Chicago.....312-357-1269
IN K Wayne Elctns Ft Wayne.....219-423-3422
IN Graham Elctns Indianapolis.....317-634-8202
IN Radio Dist Indianapolis.....317-257-2231
IN Meunier Elect Indianapolis.....317-635-3511
IN Midwest Supply Elec Terre Haute.....812-232-0187
KY P I Burks Co Louisville.....502-589-3960
KY Radio Elect Equip Lexington.....606-255-6661
KY Peerless Elec Equip Louisville.....502-637-7674
LA Ralphs of Lafayette Lafayette.....318-234-4507
LA Industrial Elect Shreveport.....318-222-9459
MD ASI Elctns Baltimore.....301-265-5100
MD Pioneer / Wash Elect Gathersburg.....301-948-0710
MD Capitol Radio Wholesalers
Rockville.....301-881-2270
MD Radio El Service Co Baltimore.....301-823-0700
MA Sager Elect Supply Hingham.....617-749-6700
MA Land Elect Supply Lynn.....617-592-2220
MA In Stock Prods Co Newton
Upper Falls.....617-964-6200
MA A W Mayer Co W Newton.....617-965-1111
MA You-Do-It Electronics Needham.....617-449-1005
MA Gerber Elect Norwood.....617-769-6000
MI Wedemeyer Elect Supply Ann Arbor.....313-665-8611
MI RS Elctns Detroit.....313-491-1012
MN Elctn Ctr Mpls.....612-371-5200
MN Stark Elctn Mpls.....612-332-1325
MN Ellington Elect Supply Jackson.....601-355-0561
MO Walters Radio Supply Kansas City.....816-531-7015
MO Van Sickle Radio St Louis.....314-621-5000
MO Olive Indl Elect St Louis.....314-863-7800
MO Electronic Supply Co Kansas City.....816-921-0250
NE Scott Elect Supply Lincoln.....402-466-8221
NE Radio Equip Omaha.....402-341-7700
NH Evans Radio Concord.....603-224-9961
NH C & H Elect Hudson.....603-882-1133
NJ General Radio Supply Camden.....609-964-8560
NJ State Elctn Parts Hanover.....201-887-2550
NJ Route Elctns Springfield.....201-467-0166
NJ Federated Purchaser Springfield.....201-376-8900
NM Elctn Parts Albuquerque.....505-293-6161
NM Walker Radio Co Albuquerque.....505-247-2288
NY Summit Distr Buffalo.....716-884-3450
NY Corning Elect Corning.....607-962-0555
NY Fordham Radio Farmingdale.....516-752-0500
NY H L Dalis Inc Long Island City.....212-361-1117
NY Argil Elctns New York.....212-691-8111
NY Masline Elctns Rochester.....716-546-5373
NY Simcona Elctns Rochester.....716-328-3230
NY Rome Elctns Rome.....315-337-5400
NY Adirondack Elctns Schenectady.....518-842-8350
NY Broadline Elctns Hauppauge.....516-420-8320
NY Davis Elect Hempstead.....516-483-9200
NY Wise Components Port Chester.....203-531-4880

NC	Southeastern Radio Supply Raleigh.....	919-828-2311
OH	Akron Elctn Supply Akron.....	216-762-8818
OH	Hughes-Peters Inc Cincinnati.....	513-351-2000
OH	United Radio Cincinnati.....	513-662-2610
OH	Pioneer-Standard Elect Cleveland.....	216-587-3600
OH	Hughes-Peters Inc Columbus.....	614-294-5351
OH	ESCO Inc Dayton.....	513-226-1133
OH	Becker Elctns Dayton.....	513-226-1341
OH	Reppo Solon.....	216-248-8900
OH	Warren Radio Toledo.....	419-248-3364
OH	Pattison Supply Cleveland.....	216-441-3000
OH	Stotts-Friedman Dayton.....	513-298-5555
OH	Pioneer Elctns Dayton.....	513-236-9900
OK	Trice Wholesale Elect Okla City.....	405-524-4411
OK	Radio Inc Tulsa.....	918-587-9123
OR	EOFF Elec Portland.....	503-222-9411
PA	A A Peters Inc Allentown.....	215-344-5237
PA	Shap Elect Huntingdon Valley.....	215-322-7150
PA	Philadelphia Elctns Philadelphia.....	215-568-7400
PA	Herbach & Rademan Philadelphia.....	215-426-1700
PA	Almo Elctns Philadelphia.....	215-698-4000
PA	CAM/RPC Pittsburgh.....	412-782-3770
PA	Techni-Tool Plymouth Meeting.....	215-825-4900
PA	Barbey Elctns Reading.....	215-376-6116
RI	Wm Wandret & Co Providence.....	401-861-2800
SC	Wholesale Radio Supply Charleston.....	803-747-9672
TN	Electra Distrib Nashville.....	615-329-3971
TN	Randolph & Rice Nashville.....	615-255-5602
TN	Curle Elect Chattanooga.....	615-266-4727
TN	Radio Elect Supply Kingsport.....	615-247-8111
TX	Wholesale Elect Supply Dallas.....	214-824-3001
TX	Swico Inc Ft Worth.....	817-335-6521
TX	Electrotex Houston.....	713-941-7016
TX	Lenert Co Houston.....	713-225-1465
TX	Sherman Elect Supply San Antonio.....	512-224-1001
TX	Harrison Ind Elect Austin.....	512-458-3555
TX	Douglas Elect Corpus Christi.....	512-883-5103
TX	Ka Elect Sales Dallas.....	214-634-7870
TX	Wallace Elect Dallas.....	214-340-0400
TX	City Elect Supply Houston.....	713-621-1060
TX	Harrison Ind Elect Houston.....	713-652-4700
UT	Standard Supply SLC.....	801-486-3371
VA	Arlington Elctn Arlington.....	703-524-2412
VA	Distributors Inc Portsmouth.....	804-399-2446
VA	Avec Electronics Richmond.....	804-359-6071
VA	Peoples Radio & TV Supply Roanoke.....	703-342-8933
WA	Radar Elect Seattle.....	206-282-2511
WI	Satterfield Elctns Madison.....	608-257-4801
WI	Marsh Elctns Milwaukee.....	414-475-6000

SMALL BUSINESS COMPUTERS	OF NEW ENGLAND BOX 397 AMHERST NH 03031.....	603-673-0228
	G CALVANO EMP 7 \$1,000-\$2,500K	

SMALL COMPUTER CO	230 W 41 ST NEW YORK NY 10036.....	212-398-9290
C	SLATTERY EMP 25 ENG 7 \$1,000-\$2,500K	
DC	Small Computer Co Washington DC.....	202-861-8010
GA	Small Computer Co Roswell.....	404-998-0302
PA	Small Computer Co Pittsburgh.....	412-885-7100

SMALLWOOD LTD S G	699 WABANAKI DR KITCHENER ON N2C 2G4.....	519-894-2280
R	LUKAS EMP 120 ENG 3	

SMC CARBON PRODUCTS	1275 BLOOMFIELD AVE FAIRFIELD NJ 07006.....	201-227-2432
R	CONNELLY EMP 9 ENG 1 \$1,000-\$2,500K	

SMD TECHNOLOGY CENTER	5855 N GLEN PARK RD MILWAUKEE WI 53209 TWX 910-262-3083.....	414-228-7632
	L YOUSE	

SMK ELECTRONICS CORP USA	1901 NANCITA CIR PLACENTIA CA 92670 TWX 183081.....	714-996-0960
H	KURTZ EMP 96 ENG 5 OVER \$10,000K	

AL	Electro Mech Huntsville.....	205-533-2100
CA	SC Sales Cupertino.....	408-725-3531
CA	Quad Rep Irvine.....	714-261-8141
CA	SR Electronics San Diego.....	619-560-8330
FL	Over & Over Brandon.....	813-626-9100
FL	Over & Over Coral Springs.....	305-753-7050
GA	Electro-Mech Norcross.....	404-447-6478
IL	Metcom Assoc Park Ridge.....	312-696-1490
IN	John H Weaver Co Columbus.....	812-372-3625
KS	Rep-Tronics Olathe.....	913-764-1079
KY	H Weaver Co Indpls.....	317-257-7661
MD	Vince Iorio Assoc Annapolis.....	301-261-1716
MA	Compass Technology Woburn.....	617-933-3336
MN	Hightech/Quantum Sales Eden Prairie.....	612-944-7274
MO	Rep-Tronics St Louis.....	314-576-9816
NY	Fred Spellman Co Manhasset.....	516-627-3399
NY	Electra Sales Syracuse.....	315-463-1248
NC	Electro-Mech Raleigh.....	919-851-8165
OH	J & B Sales Westchester.....	513-874-0236
TN	Electro-Mech Jonesboro.....	615-753-2964
TX	Blackburn Assoc Richardson.....	214-783-2200
WA	Quadra Sales Corp Redmond.....	206-883-3550
WI	Metcom Assoc West Allis.....	414-476-1300
FR	Dynasty Toronto ON.....	416-626-7690
FR	Dynasty Quebec.....	514-620-7734

DISTRIBUTORS		
CA	Nesco Van Nuys.....	818-781-0505
CA	Cypress/RPS San Jose.....	408-945-8400
CA	Nesco Santa Ana.....	714-541-6181
CA	National Electro Sales Santa Ana.....	714-541-6181
CA	Force Electronics San Diego.....	619-569-9661
CO	Waco Elect Commerce City.....	303-289-4743
CO	Cypress/RPS Wheatridge.....	303-431-2622
CO	NEP Electronics Englewood.....	303-799-9898

CT	Cronin Elect Wallingford.....	203-265-3134
FL	Electronic Equip Co Miami.....	305-871-3500
GA	ERC Parts Inc Smyrna.....	404-352-1626
IL	Nep Elect Chicago.....	312-625-8400
MD	Petricko Sales Beltsville.....	301-937-4960
MA	Cronin Elect Needham.....	617-449-0500
MN	Joel Co Hopkins.....	612-935-6202
OR	Rose Elect Beaverton.....	503-629-9288
PA	Tri-Com Inc Essington.....	215-521-3080
TX	Cypress Electronics Dallas.....	214-869-1435
WA	Paccomm Redmond.....	206-883-9200
WI	NEP Electronics New Berlin.....	414-785-9100
FR	Carsten Elect Scarborough ON.....	416-495-9999
FR	Carsten Electronics Nepean ON.....	613-726-9250
FR	Carsten Elect St Laurent PQ.....	514-334-8321

SMOOTH-ON INC	1000 VALLEY RD GILLETTE NJ 07933.....	201-647-5800
D	HOADLEY EMP 24 ENG 3 \$2,500-\$5,000K	

SNAP-TITE INC	3250 W LAKE RD ERIE PA 16505 TWX 67-7382.....	814-438-3821
R	JOHNSON EMP 350 ENG 14 OVER \$10,000K	

SNC MFG INC	101 WAUKAU AVE OSHKOSH WI 54971-7299.....	414-231-7370
TX	910-266-1066	
M	KILGORE EMP 300 ENG 5	

AL	K & E Assoc Huntsville.....	205-883-9720
AZ	Sheller-Kahn Co Phoenix.....	602-257-9015
CO	Electrodyn Inc Aurora.....	303-695-8903
CT	Precision Sales Marlborough.....	203-295-0580
FL	Phoenix Components Sarasota.....	813-371-1163
GA	K & E Assoc Doraville.....	404-448-7025
IL	Scott Assoc Elmhurst.....	312-279-5681
IN	Nationwide Components Carmel.....	317-872-7207
MD	Chesapeake Mktg Phoenix.....	301-628-4848
MI	W R Hummon & Assoc Farmington Hills.....	313-474-8162
MN	Scott Elctns Mnpls.....	612-929-2985
MO	Acorn Elctns St Louis.....	314-644-2510
NJ	S Glassman Assoc Plainfield.....	201-876-3545
NM	Sheller-Kahn Co Albuquerque.....	505-296-0749
NY	Franklin Sales Pittsford.....	716-248-8251
NY	Franklin Sales New Hartford.....	315-793-3161
NC	DHR Mktg Raleigh.....	919-781-1961
OH	Nationwide Components Willoughby.....	216-946-8137
PA	Jack McCoy Inc Downingtown.....	215-363-0350
SC	DHR Mktg Greenville.....	803-235-3594
TX	Kruvand Assoc Dallas.....	214-437-3355
UT	Electrodyn Inc SLC.....	801-486-3801

SODERBERG MFG CO INC	20821 CURRIER RD BOX 506 WALNUT CA 91789 TWX 910-581-3818.....	714-595-1291
A	KNUDSEN EMP 65 ENG 4 \$1,000-\$2,500K	

SOHIO CARBORUNDUM BOX 339	NIAGARA FALLS NY 14302.....	716-278-2521
TX	6711401	
D	COOKE EMP 250 ENG 15 \$5,000-\$10,000K	
CA	Varigon Assoc El Segundo.....	213-322-1120
CA	Raynor Sales Cupertino.....	408-737-7940
FL	Reynolds & Assoc Melbourne.....	305-259-7000
IL	Thos B Hunter Assoc Highland Pk.....	312-433-7000
NY	Crane & Egert Corp Elmont.....	516-872-0800
OH	RRM Assoc Dayton.....	513-433-7761
TX	EPH Arlington.....	817-467-0377
FR	Watmet Inc Niagara Falls ON.....	416-356-4925

SOHIO ENGINEERED MATERIALS CO	BOX 156 NIAGARA FALLS NY 14302.....	716-278-2000
N	FORNESS EMP 3000	

SOKOL CRYSTAL PRODUCTS INC	121 WATER ST MINERAL POINT WI 53565 TWX 467581.....	608-987-3363
J	MAY EMP 160 ENG 5	
FL	CBC Elctns Longwood.....	305-831-5380
IA	Rep Assoc Marion.....	319-393-0231
KS	W W Wollard Co Parker.....	913-898-6552
MN	VJ Gensmer Assoc Bloomington.....	612-888-2492

SOLA ELECTRIC A UNIT OF	GEN SIGNAL 1717 BUSSE RD ELK GROVE VILLAGE IL 60007 TWX 28-0538.....	312-439-2800
F	LEMKE EMP 650 ENG 30 OVER \$10,000K	
AZ	Cartwright & Bean Huntsville.....	205-830-1540
AZ	Zeus Phoenix.....	602-253-6101
CA	Mouthrop Sales Inc Pleasanton.....	415-463-0450
CO	Zeus Denver.....	303-321-4246
FL	Cartwright & Bean Orlando.....	305-422-4531
GA	Cartwright & Bean Atlanta.....	404-233-2939
IL	Industrial Repts Chicago.....	312-647-7755
IN	Green-Wissler Sales Indpls.....	317-872-9981
LA	Erickson Sales Chalmette.....	504-271-1976
MA	JMG Inc Norwood.....	617-762-5333
MI	R C Merchant & Co Inc Southfield.....	313-354-4300
MN	Select Sales Mnpls.....	612-827-3637
NJ	Trinkle Sales Inc Cherry Hill.....	609-795-4200
NM	Zeus Albuquerque.....	505-842-6633
NY	L-Mar Assoc Rochester.....	716-323-1000
NC	Cartwright & Bean Raleigh.....	919-781-6560
OK	Baehr Greenleaf & Assoc Lakewood.....	216-221-9030
OK	Erickson Sales Broken Arrow.....	918-455-1800
OR	Earl & Brown Co Portland.....	503-245-2283
TN	Cartwright & Bean Knoxville.....	615-693-7450
TX	Erickson Sales Dallas.....	214-739-5833
UT	Zeus SLC.....	801-534-0500
WA	Earl & Brown Seattle.....	206-284-1121
WI	Industrial Repts Milwaukee.....	414-259-0965
FR	Sola Basic Ltd Toronto ON.....	416-252-6465

DISTRIBUTORS		
CA	Wiley Co Los Angeles.....	213-666-1611
NJ	Willgold Sales East Orange.....	201-678-7700

SOLAR ELECTRONICS CO	901 N HIGHLAND AVE HOLLYWOOD CA 90038.....	213-462-0806
A	PARKER EMP 10 ENG 2 \$250-\$500K	

SOLAREX CORP	1335 PICCARD DR ROCKVILLE MD 20850.....	301-948-0202
TX	710-828-9709	
T	BLUMENSTOCK EMP 400 ENG 50 OVER \$10,000K	

SOLARTRON INSTRUMENTS 2	WESTCHESTER PLAZA ELMSFORD NY 10523 TWX 145487.....	914-592-9168
R	MARCUS EMP 520 ENG 140	
CA	Solartron Instruments Irvine.....	714-250-1172

SOLATRON ENTERPRISES 421	E BEACH AVE INGLEWOOD CA 90302.....	213-678-4981
D	RATHUE EMP 16 ENG 5 \$500-\$1,000K	

SOLDER ABSORBING TECHNOLOGY	144 OAKLAND ST SPRINGFIELD MA 01108.....	413-788-6191
J	WHITE EMP 5 ENG 2 \$500-\$1,000K	

DISTRIBUTORS		
AR	Hisco Little Rock.....	501-568-3105
CA	Ora Electronics Chatsworth.....	818-701-5848
CA	All Elec Los Angeles.....	213-380-8000
CA	Arndt Elect Belmont.....	415-592-6718
MA	Edcom Newtonville.....	617-969-9710
NJ	RSR Electronics Rahway.....	201-38-8777
NY	Emtac Inc E Syracuse.....	315-437-5013
NC	Dillon Supply Raleigh.....	919-832-7771
OH	Consolidated Electronics Dayton.....	513-252-5662
PA	Gil Tec Broomall.....	215-543-7200
PA	Henry Mann Huntingdon Valley.....	215-355-7200
TX	Hargis Elec Waco.....	817-754-5667

SOLDER REMOVAL CO 1077	E EDNA PL BOX 1678 COVINA CA 91722 TWX 910-584-1820.....	818-967-3681
F	HENNESSY EMP 41	

SOLID CONTROLS INC 6925	WASHINGTON AVE S MINNEAPOLIS MN 55435.....	612-941-6110
R	HERLING EMP 100 ENG 20 \$5,000-\$10,000K	
NJ	D McCracken Bridgeton.....	609-451-7977

SOLID POWER CORP 440 EASTERN	PKWY FARMINGDALE NY 11735 TWX 510-224-6582.....	516-694-2883
C	FRAZER EMP 40 ENG 4	

SOLID STATE CIRCUITS INC	616 BOONVILLE SPRINGFIELD MO 65806 TWX 910-775-4762.....	417-869-4678
D	STEAD EMP 225 ENG 4 OVER \$10,000K	

SOLIDSTATE CONTROLS INC	875 DEARBORN DR COLUMBUS OH 43085 TWX 245-338.....	614-846-7500
R	HOLDEN EMP 180 ENG 34 OVER \$10,000K	
AZ	Utility Prods Inc Phoenix.....	602-840-3455
CA	Garland Affolter Engrg Redwood City.....	415-367-6400
CA	Garland Affolter Engrg Corp San Gabriel.....	213-287-1149
FL	Lewis M Crowe Co St Petersburg.....	813-894-0249
IL	Ray Knitter Assoc Wheaton.....	312-690-6363
MI	Power Electronics Southfield.....	313-540-9400
MN	Electrical Jobbers Equip Mnpls.....	612-721-4815
MO	Promac Inc St Louis.....	314-895-4565
PA	W G S Equip & Controls Conshohocken.....	215-825-8440
TX	Pan-Tech Engrg Co Houston.....	713-623-0640
UT	Process Engrd Prods SLC.....	801-292-5020
FR	Industrial Automation San Juan PR.....	809-759-8300

SOLID STATE DEVICES INC	14830 VALLEY VIEW AVE LA MIRADA CA 90638 TWX 910-583-4807.....	213-921-9660
D	PEDEN EMP 100 ENG 10 \$5,000-\$10,000K	
AZ	Arcom Sales Scottsdale.....	602-947-5745
CA	Cirolia Elctns Sales Escondido.....	714-743-3015
MA	Technology Prods Group Brookline.....	617-731-0858
MN	Bill Deming & Assoc Mnpls.....	612-888-5000
NJ	Comp-Tech Sales Hasbrouck Hts.....	201-288-7400
NM	Arcom Sales Albuq.....	505-883-1197

SOLID STATE ELECTRONICS CORP	18646 PARTHENIA ST NORTHBRIDGE CA 91324.....	818-993-8257
E	POLITI EMP 20 ENG 3 ADV PG 105	

SOLID STATE EQUIPMENT CORP	1015 VIRGINIA DR FORT WASHINGTON PA 19034 TWX 510-661-0197.....	215-643-7900
J	WORTH EMP 65 ENG 7 \$5,000-\$10,000K	
CA	Solid State Equip Corp Sunnyvale.....	408-732-5288

SOLID STATE TESTING INC		
	56 MIDDLESEX TPK BURLINGTON	
	MA 01803 TWX 710-332-1620.....	617-272-0972
	J DIGIACOMO EMP 80 ENG 5	
FL	Solid State Testing Palm Bay.....	305-729-0670
NJ	Solid State Testing Fairfield.....	201-575-7474

AZ	Piper Sales Tempe.....	602-949-0048
CA	TKO Elctns Canoga Pk.....	818-883-3822
CA	ATA Assoc San Clemente.....	714-498-7180
CO	Piper Sales Longmont.....	303-443-5337
CT	Tri-Com Washington.....	203-563-2241
GA	Glen White Assoc Norcross.....	404-441-1447
IL	RHI Sales Corp Elgin.....	312-888-0099
MD	Thiem Assoc Elliott City.....	301-465-4776
MA	Tri-Com Burlington.....	617-272-8163
MI	Jim Finnegan & Co Spring Lake.....	616-846-4980
MN	Gibb Electronics Minnetonka.....	612-935-4600
NJ	Rubin Sales & Assoc West Nyack NY.....	914-623-9237
NM	Piper Sales Co Albuquerque.....	505-883-9090
NY	S-J Sales Assoc Jamaica.....	718-291-3232
NY	Pitronics Syracuse.....	315-455-9346
NC	Glen White Assoc Raleigh.....	919-848-1931
OH	Jim Finnegan & Co Cleveland.....	216-238-5905
PA	Tritek Haddonfield NJ.....	609-429-1551
TX	ASC Sales Garland.....	214-530-1155
UT	Piper Sales Co SLC.....	801-466-9336
FR	Eli Manis Inc Montreal PQ.....	514-484-2923

DISTRIBUTORS

CA	Elmo Semiconductors Burbank.....	818-768-7400
CA	Zeus West Inc Anaheim.....	714-632-6880
FL	All American Elec Corp Miami.....	305-621-8282
MD	All Amer Trans Corp Rockville.....	301-251-1205
MA	ACI Woburn.....	617-935-7230
MO	Finnigan Elec St Charles.....	314-946-6201
NJ	ACI Elect Livingston.....	201-740-0334
NY	Zeus Components Port Chester.....	914-937-7400
NY	ACI Elect Plainview.....	516-293-6630
OH	Koehle Inc Centerville.....	513-435-5435
TX	Zeus Components Richardson.....	214-783-7010

SOLITRON MICROWAVE CONNECTOR DIV		
BOX 278 PORT SALERNO		
FL	33492 TWX 510-953-7500.....	305-287-5000
FL	FENEX EMP 350 ENG 19 OVER \$10,000K	

SOLOMAT CORP 652 GLENBROOK RD		
STAMFORD CT 06906 TWX 661913.....		
R STONIER EMP 15 ENG 5		

SO-LOW ENVIRONMENTAL EQUIPMENT		
CO INC 10310 SPARTAN DR		
CINCINNATI OH 45215.....	513-772-9410	
W SCHUM EMP 25 ENG 2 \$2,500-\$5,000K		

SOLTEC CORP 11684 PENDLETON ST		
SUN VALLEY CA 91352		
TWX 494-3094.....		
G PURSER EMP 50 ENG 4 \$5,000-\$10,000K		

AZ	Barnhill Assoc Scottsdale.....	602-947-7841
CA	Electronic Engrg Assoc San Carlos.....	415-593-2189

CO	Barnhill Assoc Englewood.....	303-779-3600
FL	Saber Assoc Melbourne.....	800-432-6288
GA	Saber Assoc Norcross.....	800-327-0853
IL	Dytec/Central Arlington Hts.....	312-394-3380
IN	Dytec/Central Indpls.....	317-247-1316
KS	Dytec/South Lenexa.....	913-880-0215
MD	Electronic Mktg Assoc Rockville.....	301-881-5300
MA	Eastern Sys Technology Hopkinton.....	617-435-9591
MI	WKM Assoc Madison Hts.....	313-588-2300
MN	Trask Engineering Mpls.....	612-537-2434
MO	Dytec/South Maryland Hts.....	314-569-2990
NM	Barnhill Assoc Albuquerque.....	505-299-7658
NC	Saber Assoc Clayton.....	800-327-0853
OH	WKM Assoc Dayton.....	513-434-7500
PA	Electronic Mktg Assoc Plymouth Mtg.....	215-828-7400
TX	Barnhill Assoc Houston.....	713-688-9971
UT	Barnhill Assoc Murray.....	801-262-3000
WA	Northwest Test & Mgmt Redmond.....	206-881-8857

SONATECH INC 640 MCCLOSKEY P1		
GOLETA CA 93117 TWX 658-489.....		
K LEONARD EMP 150 ENG 35 \$5,000-\$10,000K		

SONEX CORP 931 E LYCOMING ST		
PHILADELPHIA PA 19124		
TWX 710-670-1013.....		
M DADARIO EMP 30 ENG 7 \$1,000-\$2,500K		

SONICS & MATERIALS INC		
KENOSIA AVE DANBURY CT 06810		
TWX 969639.....		
R ARMSTRONG EMP 50 ENG 5 \$2,500-\$5,000K		

SONNENSCHN BATTERIES INC		
300 E JOHNSON BOX 339		
CHESHIRE CT 06410		
TWX 510-100-7052.....		
C WRIGHT EMP 20 ENG 2 \$2,500-\$5,000K		

AL	Raycom Inc Huntsville.....	205-859-2017
AZ	J F Hurlbut Co Phoenix.....	602-952-2079
CA	Impact Electronics Anaheim.....	714-533-1351
CA	West-Comp Inc Cupertino.....	408-996-1001
CO	J F Hurlbut Co Golden.....	303-279-7796
CT	G/M Assoc Vernon.....	203-646-4443
FL	Raycom Inc Melbourne.....	305-259-7988
GA	Raycom Inc Marietta.....	404-952-6061
IL	Metcom Assoc Park Ridge.....	312-696-1490
IN	Fred A Dorsey & Assoc Indpls.....	317-842-0060
KY	Fred A Dorsey & Assoc Louisville.....	502-426-3540
MA	G/M Assoc Framingham.....	617-872-4871
MI	R C Merchant & Co Farmington Hills.....	313-476-4600
MO	Forristal-Young Sales St Louis.....	314-968-9975
NE	Forristal-Young Sales Omaha.....	402-333-0800
NJ	R E Breuer Co Rahway.....	201-388-5045
NY	R E Breuer Co Farmingdale.....	516-694-6597
NY	Technical Comp Sales Rochester.....	716-342-2406
NC	Raycom Inc Raleigh.....	919-847-8276
OH	Omega Sales Centerville.....	513-434-5507
OR	Harry Levinson Co Portland.....	503-245-1902
TX	Delta Components Seagoville.....	214-287-6333
WA	Harry Levinson Co Seattle.....	910-444-2154

WI	Metcom Assoc West Allis.....	414-476-1300
FR	Duracell-Canada Mississauga ON.....	416-823-4410

DISTRIBUTORS

CA	Tauber Elect San Diego.....	619-274-7242
GA	Franklin Inc Fayetteville.....	404-461-4026
MN	Electro Mktg Inc Eden Prairie.....	612-944-5850
NY	Connector Concepts Pt Washington.....	516-883-3800
TX	M Hutton & Co Dallas.....	214-484-0580

SONOBOND ULTRASONICS INC		
200 E ROSEDALE AVE WEST		
CHESTER PA 19380 TWX 902497.....		
P KRAUSE EMP 50 ENG 10		

FL	P Lyon Orlando.....	305-855-0717
IL	E Mahachek Chicago.....	312-992-2140
IN	J Counseller Columbus.....	812-372-0076
MI	C Hildebrand Royal Oak.....	313-549-4050
MN	Flexmaster Systems Mpls.....	612-544-0044
NJ	C Giannandrea Clark.....	201-382-4559
NY	B Mamula Canandaigua.....	716-394-5560
NC	L Hatley Assoc Davidson.....	704-892-8326
WA	J Holcomb Seattle.....	206-762-4260
WI	R Mueller Brookfield.....	414-782-6011
FR	G Ford Markham ON.....	416-475-6677

SONY COMMUNICATIONS PRODS CO		
SONY DR PARK RIDGE NJ 07656.....		
EMP 43000 OVER \$10,000K		

CA	Sony Info Prods Div San Francisco.....	415-956-7669
CT	Sony Info Prods Div West Hartford.....	203-233-9601
GA	Sony Info Prods Div Atlanta.....	404-451-7502
IL	Sony Info Prods Div Des Plaines.....	312-635-6699

SORENSEN CO A UNIT OF RAYTHEON CO		
676 ISLAND POND RD MANCHESTER		
NH 03103 TWX 710-220-1339.....		
R UNGER EMP 900 ENG 25 OVER \$10,000K		

AL	Currie Peak & Frazier Huntsville.....	205-536-1506
AZ	Trembly Assoc Tempe.....	602-967-2058
CA	Power Specialists Los Alamitos.....	213-594-9414
CA	Jay Stone & Assoc Los Altos.....	415-948-4563
CO	Trembly Assoc Wheat Ridge.....	303-421-8940
FL	Currie Peak & Frazier Orlando.....	305-855-0803
GA	Currie Peak & Frazier Norcross.....	404-449-7662
IL	Dytec/Central Arlington Hts.....	312-394-3380
IN	Dytec/Central Indpls.....	317-247-1316
LA	Kemp Engrg Co Lafayette.....	318-269-9452
MI	Comtel Instr Southfield.....	313-358-2505
NV	Trembly Assoc Las Vegas.....	702-739-9707
NJ	Sci-Rep Inc Pennsauken.....	609-662-5222
NM	Trembly Assoc Albuquerque.....	505-266-8616
NY	Crane & Egert Corp Elmont.....	516-872-0800
NY	Tae-Rep Inc Whitney Point.....	607-692-3705
NC	Currie Peak & Frazier Greensboro.....	919-373-0380
OH	Comtel Ints Co Cleveland.....	216-442-8080
PA	Comtel Instr Pittsburgh.....	412-922-5720
TX	Currie Peak & Frazier Nashville.....	615-366-4009
UT	Kemp Engrg Addison.....	214-931-7100
UT	Trembly Assoc SLC.....	801-486-5292
VA	Scientific Assoc Fairfax.....	703-385-0600
WA	Northwest Test & Mgmt Redmond.....	206-881-8857
FR	Allan Crawford Assoc Mississauga ON.....	416-890-2010

SORENSEN LIGHTED CONTROLS INC		
75 LOCUST ST HARTFORD		
CT 06114 TWX 710-425-4093.....		
T D'ALLESANTO EMP 200 ENG 2		

DISTRIBUTORS

CA	Pacific Switch Cont Van Nuys.....	213-873-4802
CA	Cal Switch Gardena.....	213-538-9830
CA	Electric Switches Los Angeles.....	213-660-1310
CA	Western Switches Tustin.....	714-731-4333
CT	Atlantic Switch Cont W Htfd.....	203-523-5259
FL	Switch Controls Lakeland.....	813-644-7564
IL	Conectrix Wheaton.....	312-653-1460
IL	Classic Components Northbrook.....	312-272-9650
MA	Comtek Assoc Canton.....	617-828-5849
MI	Spemco St Clair Shores.....	313-771-2700
MN	Bergquist Co Mpls.....	612-835-2322
MO	Jerome M Mertens Co Clayton.....	314-993-6600
NJ	Jerseywitch Mt Laurel.....	609-778-8190
NY	Switches Unlt Woodside.....	212-478-5000
OH	Ohio Switch Columbus.....	614-885-0319
SC	Dixie Elect Columbia.....	803-779-5332
TX	Texaswitch Dallas.....	214-357-1768
WI	Lake-View Electronics Mequon.....	414-377-8250
FR	A Deskin Sales Ville St Laurent PQ.....	514-331-2860
FR	A Deskin Sales Vancouver BC.....	604-324-6331
FR	A Deskin Sales Markham ON.....	416-495-1412

SORGEL TRANSFORMERS DIV		
SQUARE D CO 838 W NATIONAL		
AVE BOX 04549 MILWAUKEE		
WI 53204 TWX 2-6785.....		
H EDEREGGER		

CA	Dennis Don & Assoc Costa Mesa.....	714-957-0844
IL	Weldy Lamont Assoc Mt Prospect.....	312-777-8575
IA	Midwest Equip Co Of Iowa Des Moines.....	515-288-4000
MD	Bradley Electro Sales Corp Columbia.....	301-995-1820
MA	F Dolloff Randolph.....	617-961-2785
NY	Keeler-Miller Lynbrook.....	516-887-7711

SOSHIN ELECTRIC CO LTD		
1-18-18 NAKAMAGOME OHTA-KU		
TOKYO JAPAN TWX 246-6377.....		
N HIRAIDE EMP 900 ENG 80 OVER \$10,000K		

DISTRIBUTORS

CA	Arco Electronics Chatsworth.....	818-882-8707
NY	Capar Comps Corp Melville.....	800-645-9626

SOS LIGHTING DEVICES DIV MEMCO		
3050 N HOPE ST DEPT EBG 86		
PHILADELPHIA PA 19133-4291		
TWX 494-5021.....		
P JUDGE EMP 10 ENG 2 \$250-\$500K		

SOSSNER STEEL STAMPS INC		
39-29 ST ST LONG ISLAND		
CITY NY 11011.....		
EMP 30 ENG 2 \$1,000-\$2,500K		

CT	Production Components Oxford.....	203-735-2749
IL	Fleetwood Sales Burr Ridge.....	312-920-9050
MA	L F O'Leary Co S Weymouth.....	617-331-3450
MI	Collier Smith Machy Co Jackson.....	517-787-8227
NH	R R Russell Broadbrook.....	203-623-1826
NJ	Production Supply & Equip Waldwick.....	201-447-3525
NY	H & C Tool Supply Rochester.....	716-235-5700
NC	W L Krueger Co Mooresville.....	704-663-2227
OH	Prime Equip Co Chagrin Falls.....	216-247-2850
PA	T Mackin Ft Washington.....	215-646-2925

SOUNDOLIER DIV AMER TRADING		
PROD CORP 9380 WATSON		
INDUSTRIAL PK ST LOUIS		
MO 63126 TWX 910-760-1650.....		
P GROTE EMP 400 ENG 10		

AZ	J R Morgan Agency Phoenix.....	602-268-3464
CA	EESCO Los Angeles.....	818-242-8823
CA	Warren Assoc Santa Clara.....	408-988-7762
CO	CB Electronic Mktg Arvada.....	303-422-0551
FL	Bensick Assoc Ocala.....	904-732-9775
GA	SECOM Systems Atlanta.....	404-455-0672
IL	Ziskind Assoc Rolling Meadows.....	312-577-1624
IN	Monfort Electronic Mktg Indpls.....	317-872-8877
MA	Piper Assoc Needham.....	617-449-1144
MI	Riley & Petchell Sales Detroit.....	313-937-3000
MN	R & W Sales St Paul.....	612-646-2710
MO	Rancilio Assoc St Louis.....	314-631-3326
NY	LSM Assoc Phelps.....	315-548-4891
NY	R & S Sales Yonkers.....	914-423-4747
OH	AVCOM Inc Olmsted.....	216-777-2060
PA	Richard S Pass Assoc Langhorne.....	215-757-6100
SC	Hai C Norman Sales Greenville.....	803-244-6254
TX	Miller & Assoc Richardson.....	214-437-5733
WA	Vector Corp Seattle.....	206-322-4343
FR	Atlas Electronics Ltd Toronto ON.....	416-789-7761

DISTRIBUTORS

PA	Control Assembly Pittsburgh.....	412-561-0293
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SOUND TECHNOLOGY 1400 DELL AVE		
CAMPELL CA 95008 TWX 357445.....		
K MCGUIRE EMP 40 ENG 4		
IL	Sound Technology Palatine.....	312-358-2622
NJ	Hartmann Sales Union.....	201-688-7079
NC	Sound Technology Charlotte.....	704-542-3380

SOURIAU INC 25158 AVE STANFORD		
VALENCIA CA 91355		
TWX 910-336-1553.....		
B VOCKERATH EMP 75 ENG 6 OVER \$10,000K		

AZ	O'Donnell Assoc Phoenix.....	602-944-9542
AR	Electra Reps Fort Smith.....	501-452-4030
CA	Recht Assoc Los Altos.....	415-964-6321
CO	Component Prod Sales Boulder.....	303-530-2800
FL	Gugel-Tuttle Assoc Altamonte Sprgs.....	305-788-0845
GA	JHU Assoc Atlanta.....	404-662-0792
IL	WG Controls Lisle.....	312-963-5954
IN	C C Electronics Indpls.....	317-255-1508
IA	W G Controls Anamosa.....	319-482-2266
KS	R W Kunz & Assoc Prairie Vlg.....	913-648-3535
MD	Pro Rep Columbia.....	301-992-7460
MA	Today Component Sales Corp Stow.....	617-897-7500
MI	C C Electronics Pontiac.....	313-338-7400
MN	Holmgren Assoc Spring Lake Park.....	612-786-7641
MO	R W Kunz & Assoc St Louis.....	314-966-4977
NJ	Grimm Siegel Assoc West Caldwell.....	201-575-9300
NM	O'Donnell Assoc Albuquerque.....	505-883-1030
NY	Leonard D Allen Syracuse.....	315-437-8387
NY	Leonard D Allen Poughkeepsie.....	914-462-0037
NC	JHU Assoc Greensboro.....	919-852-9097
OR	Venture Elctns Forest Grove.....	503-357-5112
PA	PWC Inc Spring House.....	215-643-2550
TX	Electra Reps Dallas.....	214-248-3852
WA	Venture Electronics Bellevue.....	206-454-4594
FR	Gidden-Morton Mississauga ON.....	416-671-8111
FR	Gidden-Morton St Laurent PQ.....	514-335-9575

TX Southco Inc Dallas.....363-5072
 WA Frank W Aurich & Co Seattle.....284-5561
 FR Metal & Wood Fastening.....222-2786
 Dev Co Toronto ON.....222-2786
 FR Metal & Wood Fastening.....274-9433
 Dev Co Montreal PQ.....633-2452
 FR Steeves Agencies Winnipeg MB.....

SOUTHERN AVIONICS CO BOX 5345
 BEAUMONT TX 77706 TWX 779450.....409-842-1717
 B GOODHUE EMP 38 ENG 3 \$1,000-\$2,500K

SOUTHERN COMPUTER CORP
 3684 CLEARVIEW AVE ATLANTA
 GA 30340 TWX 317-867.....404-455-8018
 R GESELL

DISTRIBUTORS
 FL Graham Elect Largo.....813-541-4434
 GA Graham Elect Norcross.....404-662-0923
 IN Graham Elect Indpls.....317-634-8202
 MI Graham Elect Ann Arbor.....313-971-9093
 OH Graham Elect Cincinnati.....513-772-1661
 TN Graham Elect Nashville.....615-242-2682

SOUTHERN ELECTRONICS CO
 726 S FLOWER ST BURBANK
 CA 91502 TWX 910-498-5707.....818-845-2458
 R HEAD

SOUTHERN SCREW DIV FARLEY
 METALS INC BOX 1360
 STATESVILLE NC 28677.....704-873-7213
 S CARTER

CA Southern Screw Bell.....213-263-7171
 IL Southern Screw Niles.....312-647-9666
 TX Southern Screw Dallas.....214-637-6600

SOUTHWALL TECHNOLOGIES
 1029 CORPORATION WAY PALO ALTO
 CA 94303.....415-962-9111

SOUTHWEST PRODUCTS CO BOX 1028
 MONROVIA CA 91016.....818-358-0181
 K HACKMAN EMP 100

SP AMERICA INC 1181 N FOURTH ST
 SAN JOSE CA 95112.....408-947-0311
 TWX 910-338-2229
 D HALL EMP 20 ENG 5 OVER \$10,000K

FL Tech-Rep Assoc Clearwater.....813-530-1619
 GA Tek-Rep Mktg Lawrenceville.....404-963-1600
 IL ES Healy Assoc Crystal Lake.....815-459-4386
 IN TMC Corp Carmel.....317-844-8462
 MA Ray Perron & Co Needham.....617-449-6162
 MI Jay Mktg Assoc Plymouth.....313-459-1200
 MO Reps St Louis.....314-241-4432
 PA TCA Assoc Broomall.....215-353-2022
 TX TL Marketing Dallas.....214-357-1752

SPARRELL ENGINEERING RESEARCH
 CORP BOX 130 BRISTOL RD
 DAMARISCOTTA ME 04543.....207-563-3224
 EMP 2 ENG 1

SPARTON CORP 2400 E GANSON ST
 JACKSON MI 49202.....517-787-8600
 TWX 810-253-1925
 EMP 3000 ENG 300 OVER \$10,000K

SPARTON ELECTRONICS DIV
 SPARTON CORP 2400 E GANSON
 JACKSON MI 49202 TWX 810
 253 1925.....517-787-8600
 A LUEMPERT OVER \$10,000K
 VA Sparton Electronics Arlington.....703-486-5050

SPARTON OF CANADA LTD BOX
 5125-100 ELM ST LONDON
 ON N6A4N2 TWX 064-5876.....519-455-6320
 R IRVINE EMP 120 ENG 41 OVER \$10,000K

SPARTON TECHNOLOGY INC
 4901 ROCKAWAY BLVD SE
 RIO RANCHO NM 87124.....505-892-5300
 TWX 910-989-1657
 D SCHWALM ENG 35

AZ Adtek, Inc Glendale.....602-931-9289
 CA CSS Telecomm Mt View.....415-964-4335
 GA Fisher Engr Marietta.....404-973-4434
 IL Dunlap & Assoc Park Forest.....312-747-9488
 KS J R McGinley Sales Prairie Vig.....913-642-7524
 MN R-Com Telecomm Prods Minnetrista.....612-472-3475
 NJ Eastcom Assoc Raritan.....201-772-7774
 TX Gridley Assoc Austin.....512-327-2008
 WA Control Communications Bellevue.....206-454-9297

SPATIAL DATA SYSTEMS INC
 BOX 2346 MELBOURNE FL 32902
 TWX 56-4383.....305-729-8346
 T HARRINGTON EMP 32 ENG 6 \$1,000-\$2,500K
 AL Newcomb Assoc Huntsville.....205-852-0304
 NJ Wild & Rutkowski Jericho.....516-935-6600
 VA H J Heffernan Co Arlington.....703-522-6666

DISTRIBUTORS
 AZ PLS Assoc Phoenix.....602-246-6477
 CA Micro Assoc Hacienda Hts.....213-330-6819
 MA Tech Sales Assoc Chelmsford.....617-250-0352
 MO PLS Assoc West Valley City.....801-973-0684
 OH MicroGraphics Inc Cuyahoga Falls.....216-923-3915
 WA Penryn Inc Seattle.....206-782-8879

SPAULDING INSTRUMENTS 275
 N HALSTEAD PASADENA CA 91107.....213-351-8924
 M WRIGHT EMP 30 ENG 3 \$1,000-\$2,500K

SPC TECHNOLOGY 1101 W IRVING
 PARK RD BENSENVILLE IL 60106
 TWX 285-304.....312-766-6711
 S KRAUSE EMP 30 ENG 3 \$100-\$250K

DISTRIBUTORS
 IL Newark Electronics Chicago.....312-638-4411

SPECIAL SYSTEMS INC 8045
 NEWELL ST SILVER SPRING
 MD 20910.....301-587-2260
 P SHARKITT EMP 11 ENG 5 \$500-\$1,000K

SPECIALTIES MFG CO 23425
 HARPER ST BOX 386 ST
 CLAIR SHORES MI 48080.....800-482-2828
 H JANISSE

AL Hollingsworth & Still Mobile.....205-344-1641
 FL Hollingsworth & Still Orlando.....305-862-3451
 GA Hollingsworth & Still Norcross.....404-447-1700
 MD Mid Atlantic Sales Silver Spring.....301-593-7749
 NC Hollingsworth & Still Greensboro.....919-855-9033

SPECIALTY ELECTRONICS INC
 208 E RUTHERFORD ST LANDRUM
 SC 29356.....803-457-3824
 J GALLI JR EMP 10 ENG 1 \$250-\$500K

DISTRIBUTORS
 CA El-Com Sales Cerritos.....213-404-2961
 CA El-Com Sales Santa Clara.....408-496-0880
 FL Interlec Components Longwood.....305-834-7777
 PA Peak Electronics Wayne.....215-293-9000

SPECO DIV COMPONENTS SPECIALTIES
 INC 1172 RTE 109 BOX 624
 LINDENHURST NY 11757
 TWX 96-7754.....516-957-8700
 M HULKOWER EMP 35 ENG 2 \$2,500-\$5,000K

CA John Mackenzie Inc Rancho
 Cordova.....916-635-5899
 CA Art Slerpitz Sales Co Van Nuys.....818-782-1765
 CO MKP Mktg Denver.....303-759-5661
 FL Mel Yarish Assoc Hollywood.....305-625-1300
 GA Cavendish & Assoc Atlanta.....404-449-5104
 HI Omega Hawaii Honolulu.....808-946-2983
 IN Jim Church Mktg Indpls.....812-334-0383
 LA Associates Mktg Kenner.....504-443-5072
 MA Jonel Sales Assoc Milford.....617-478-4650
 MI Harvey Sales Livonia.....313-591-1975
 MN Select Sales Mpls.....612-827-3637
 MO KRB & Co St Louis.....314-647-2400
 NY Kaller Assoc Lindenhurst.....516-226-7733
 NY Richard W Bieniek Sales Webster.....412-743-4164
 NC Wallace Elect Sales Kernersville.....919-996-2742
 OH Banner Mktg Brook Park.....216-433-1450
 OK Associates Mktg Okla City.....405-722-8832
 OR Roger Minthorne Portland.....503-246-4556
 TN Cavendish & Assoc Cookeville.....615-537-9282
 TX Associates Marketing Dallas.....214-241-7190
 VA Crown Assoc Charlottesville.....804-823-5404
 WI Tom Huber Sales Greenfield.....414-282-8790

DISTRIBUTORS
 MD Centronic Wholesalers
 Hyattsville.....301-277-6700
 NJ Interstate Electronics Hazlet.....201-264-3900
 NY Gem Electronics Farmingdale.....516-249-6996

SPECTRACOM CORP 101 DESPATCH DR
 EAST ROCHESTER NY 14445
 TWX 910-350-9587.....716-381-4827
 R HESSELBERTH

AL Periphex Corp Huntsville.....205-883-6699
 AZ Jayson Co Phoenix.....602-867-1964
 CA OHalloran Assoc North Hollywood.....213-877-0173
 CA OHalloran Assoc Palo Alto.....415-969-1600
 CO Herb Bass Assoc Boulder.....303-530-7509
 FL Lee Assoc Winter Haven.....813-294-5815
 GA Periphex Corp Marietta.....404-980-9328
 IL Electronic Inst Assoc Park Ridge.....312-298-2290
 IN Electronic Inst Assoc Indpls.....317-257-7231
 KS Ramsey Assoc Lenexa.....913-541-1007
 MD Gawler-Knoop Co Silver Spring.....301-589-4406
 MA RJ Sickles Assoc Lexington.....617-862-5100
 MN Electronic Instr Assoc Mpls.....612-374-5628
 MO Ramsey Assoc St Louis.....314-878-5042
 NJ Mark Roberts Assoc Mt Arlington.....201-398-8425
 NY TAE-Rep Rochester.....716-586-8710
 NY TAE-REP Inc Whitney Point.....607-692-3705
 NC Periphex Corp Winston Salem.....919-723-8102
 OH Micro Sales Corp North Olmsted.....216-374-3080
 OR Westcon Inc Portland.....503-283-0132
 PA Robt Meyers Assoc Philadelphia.....215-224-1663
 TX Airep Electronics Dallas.....214-349-4360
 UT Herb Bass Assoc Bountiful.....801-295-7100
 WA Westcon Inc Woodinville.....206-486-8854
 WV Micro Sales Corp Parkersburg.....304-422-8024
 FR Allan Crawford Assoc Mississauga
 ON.....416-890-2010
 FR Allan Crawford Assoc Burnaby BC.....604-294-1326
 FR Allan Crawford Assoc St
 Laurent PQ.....514-731-8564
 FR Allan Crawford Assoc Calgary AB.....403-291-3417
 FR Allan Crawford Assoc Dartmouth.....902-463-8640

SPECTRA DIODE LABS INC
 3333 N FIRST ST SAN JOSE
 CA 95134-1995.....408-946-3483

SPECTRAL DYNAMICS DIV SCIENTIFIC-ATLANTA
 INC 4255 RUFFIN RD BOX 23575
 SAN DIEGO CA 92123 TWX 910
 335 2022.....619-286-7100
 R SAUNDERS EMP 300 ENG 45 OVER \$10,000K

SPECTRA-MAT INC 1240 HWY 1
 WATSONVILLE CA 95076.....408-722-4116
 TWX 910-379-0015
 R REAVES EMP 125 ENG 3 \$5,000-\$10,000K

SPECTRA-PHYSICS INC BOX 7013
 MOUNTAIN VIEW CA 94039
 TWX 910-379-6941.....415-961-2550
 N STOKER EMP 2000 ENG 100 OVER \$10,000K
 CA Spectra-Physics.....800-227-8054
 NJ Spectra-Physics.....800-631-5693

SPECTRA-STRIP OPERATIONS
 7100 LAMPSON AV BOX 415
 GARDEN GROVE CA 92642
 TWX 910 596-1314.....714-892-3361
 D PAPST EMP 250 ENG 25 OVER \$10,000K

SPECTROLAB INC 12500 GLADSTONE
 AVE SYLMAR CA 91342
 TWX 910-496-1488.....818-365-4611

SPECTROL ELECTRONICS CORP
 17070 E GALE AVE CITY
 OF INDUSTRY CA 91749
 TWX 910 584-1314.....213-964-6565
 D MATHEWS EMP 600 ENG 40

SPECTRON GLASS & ELECTRONICS INC
 595 OLD WILLETS PATH BOX 13368
 HAUPPAUGE NY 11788 TWX 968296.....516-582-5600
 R MARSHALL EMP 50

SPECTRONICS CORP 956 BRUSH
 HOLLOW RD BOX 483 WESTBURY
 NY 11590 TWX 510-222-5877.....516-333-4840
 J WEGELAR EMP 140 ENG 10

SPECTRON ENGINEERING INC
 800 W 9 AVE DENVER CO 80204.....303-623-8987
 P HERZ EMP 8 ENG 4

CA Western Technology Mktg 130 Flynn Mtn View
 CO SCT Sales 2901 S Shoshone Denver
 IL BEA Electro-Optics 690 First Av Des Plaines
 NY Eastern Metro Assoc 3 Eva La Plainview

SPECTRON CONTROL INC 2185
 W EIGHTH ST ERIE PA 16505
 TWX 510-699-6871.....814-455-0966
 H BOSTROM EMP 500 ENG 70 OVER \$10,000K
 CA Rich Colburn Valencia.....805-257-2280
 CA M Bukowski Sunnyvale.....408-735-9015
 FL M Menosky Melbourne.....305-724-4900
 IL T Ligan Elgin.....312-888-8011
 MA D DiLillo Chelmsford.....617-458-9079
 NJ W Watts Brielle.....201-528-8420
 TX M Barker Irving.....214-251-1669

DISTRIBUTORS
 CA Cypress Electronics San Jose.....800-538-5112
 CA Cypress Electronics Torrance.....213-533-6005
 CO Cypress Electronics Wheatridge.....303-431-2622
 FL Summit Dist Dania.....305-920-6253
 IL Newark Electronics Chicago.....312-784-5100
 NJ Metuchen Capacitors Perth Amboy.....201-442-0500
 NY Summit Dist Buffalo.....716-887-2800
 NY Summit Dist Rochester.....716-344-8110
 OH Aschbacher & Assoc Dayton.....513-252-7785
 TX Captronics Dallas.....214-980-0123
 TX Captronics Austin.....512-459-4328

SPECTRUM TECHNOLOGY INC
 300 LOPEZ RD GOLETA CA 93116
 TWX 910-334-1163.....805-964-7791
 G FURMAN EMP 100 ENG 3 \$2,500-\$5,000K
 AZ Sedco Sales Mesa.....602-835-6281
 CA Frequency Control Assoc San Jose.....408-446-0200
 CT Todino Engrg Sales Co Milford.....203-874-6643
 FL Rainbow Sales Melbourne.....305-727-3305
 IL R K Elctns Elgin.....312-695-8552
 MA Todino Engrg Sales Co Needham
 Hts.....617-444-7925
 NJ Mesa Tech Assoc Haddonfield.....609-429-9531
 NM IMEC Albuquerque.....505-883-9010
 NY Compar New York Clifton NJ.....201-546-3660
 OK Ion Assoc Tulsa.....918-664-0186
 TX ION Assoc Grand Prairie.....214-647-8225
 FR Solid State Eng Sales Montreal
 PQ.....514-481-3313

SPEECH PLUS INC 461 N BERNARDO
 AVE MTN VIEW CA 94043
 TWX 278838.....415-964-7023
 A YATAGAI EMP 28 ENG 14 \$2,500-\$5,000K

AL Reynolds & Assoc Huntsville.....800-255-1965
 AZ Mar-Tech Assoc Tempe.....602-968-4944
 CA Schlines Representation Tustin.....714-544-9941
 CT R H Sturdy Co Ansonia.....203-734-2186
 FL Reynolds & Assoc Melbourne.....800-251-1985
 GA Reynolds & Assoc Atlanta.....800-255-1965
 MA R H Sturdy Co Wellesley.....617-235-2330
 MN Jen-Ray Systems Mpls.....612-831-5060
 MO Engineering Services St Louis.....314-997-1515
 NJ Hansen & Hughes Ridgewood.....201-652-7055
 NC Reynolds & Assoc Winston-Salem.....800-255-1965
 OH Dolfuss-Root Dayton.....513-433-6776
 OK Cunningham Components Tulsa.....918-492-0390
 PA Dolfuss-Root Bridgeville.....412-221-4420
 TX Cunningham Components Dallas.....214-669-9706

SPEED DETECTORS INC 32 W MONROE
 BEDFORD OH 44146.....216-232-4100
 L SEABECK EMP 40 ENG 5 \$1,000-\$2,500K

SPEEDFAM CORP 509 N THIRD AVE
 DES PLAINES IL 60016.....312-827-8891
 J KEEFE EMP 65 ENG 5 OVER \$10,000K

SPEEDY CIRCUITS INC 5332

COMMERCIAL DR HUNTINGTON BEACH
CA 92649 714-898-4901
S DARRIN
ADV PG 362

SPELLMAN HIGH VOLTAGE ELECTRONICS

CORP 7 FAIRCHILD AVE
PLAINVIEW NY 11803
TXW 510-221-2155 516-349-8686
T STUTZBACH EMP 170 ENG 15 \$5,000-\$10,000K
CA FLW Costa Mesa 714-751-7512
CA FLW Hayward 415-786-9070
FL Gra-Mar Inc Orlando 305-894-3351
MA Whitehead Assoc Wakelield 617-246-5070
MN Knox Assoc St Paul 612-488-5402

SPPERX CORP 16131 S MAPLE AVE
GARDENA CA 90248 TWX 194567 213-323-6162
J BORRE EMP 10 ENG 3 \$500-\$1,000K

SPERRY CORP AEROSPACE &

MARINE GROUP BOX 21111
PHOENIX AZ 85036
TXW 910-950-1952 602-869-2311
EMP 8683 ENG 1100 OVER \$10,000K
CA L Webel El Segundo 213-772-3101
GA F Miles Atlanta 404-952-4445
MO R Ropp St Ann 314-291-3901
MO Carboline St Louis 314-644-1000
NY B Tucker Melville 516-420-1280
OH W Shelton Middleburg Hts 216-243-8877
TX J Khouri Irving 214-258-1507
VA W Squires Arlington 703-892-0100
WA R Nevees Seattle 206-575-0113

SPERRY INSTRUMENTS INC A W

245 MARCUS BLVD HAUPPAUGE
NY 11788 516-231-7050
D CARROLL EMP 40 ENG 3

SPIRE CORP PATRIOTS PARK

BEDFORD MA 01730 TWX 951072 617-275-6000
T DEARMIN EMP 190 \$5,000-\$10,000K

SPIVEY INC JAMES S BOX 34609

BETHESDA MD 20817 301-656-6028
J SPIVEY EMP 3

SPRAGUE ELECTRIC CO 92

HAYDEN AVE LEXINGTON MA 02173
TXW 710-369-1360 617-862-5500
T FISCHER EMP 10000 OVER \$10,000K

AL EPI Inc Huntsville 205-883-0520
AL Electramark Inc Huntsville 205-883-9948
AZ Sprague Elec Co Mesa 602-831-6762
AZ Sprague Elec Co Tucson 602-746-0955
CA Wm J Purdy Co Burlingame 415-347-7701
CA Sprague Elec Co Costa Mesa 714-549-9913
CA Sprague Elec Co Van Nuys 818-994-6500
CA Martonix Fallbrook 619-728-7678
CA Sprague Elec Co San Jose 408-241-7111
CA Miner Assoc San Diego 619-566-9891
CO Wm J Purdy Co Denver 303-753-6800
CO Todd & Fry Assoc Longmont 303-776-7331
CT Data Mark Inc Guilford 203-453-0575
CT Sprague Elec Co Southbury 203-264-9592
CT Sprague Elec Co Wallingford 203-284-8300
FL Sprague Elec Co Altamonte Springs 305-831-3636

FL Sprague Elec Co Ft Lauderdale 305-491-7411
FL Sprague Elec Co Tampa 813-935-8203
GA Electramark Inc Norcross 404-446-7915
GA Electronic Mktg Assoc Atlanta 404-448-1215
IL Sprague Elec Co Park Ridge 312-296-6620
IL EPI Inc St Louis, MO 314-962-1411
IN Sprague Elec Co Indpls 317-253-4247
KS EPI Inc Overland Park 913-648-4154
MD Sprague Elec Co Laurel 301-792-4890
MD Trinkle Sales Cherry Hill 609-795-4200
MA Sprague Elec Co Framingham 617-875-3200
MA Nova Sales Inc Lexington 617-861-1820
MA Sprague Elec Co North Adams 413-664-4411
MA Ray Perron & Co Needham 617-449-6162
MI Sprague Elec Co Ann Arbor 313-761-2014
MN HMR Inc Minneapolis 612-888-2122
MS EPI Inc Huntsville AL 205-883-0520
MO EPI Inc St Louis 314-962-1411
NH Ray Perron & Co Dover 603-742-2321
NJ Sprague Elec Co Wayne 201-696-8200
NJ Trinkle Sales Inc Cherry Hill 609-795-4200
NM Wm J Purdy Co Albuquerque 505-266-7959
NY Sprague Elec Co Central Islip 516-234-8700
NY Sprague Elec Co Syracuse 315-437-7311
NY Sprague Elec Co Larchmont 914-834-4439
NY Paston-Hunter Co Syracuse 315-437-2843
NC Electronic Mktg Assoc Raleigh 919-847-8800
NC Sprague Elec Co Charlotte 704-527-1306

OH Electronic Sales Masters
Beechwood 800-362-2616
OH Sprague Elec Co Dublin 614-761-1881
OR Sprague Elec Co Vancouver WA 503-225-0493
OR Wm J Purdy Co Beaverton 503-641-9373
PA Trinkle Sales Cherry Hill 215-922-2080
SC Electronic Mktg Assoc Greenville 803-233-4637

TN Electronic Mktg Assoc Raleigh NC 919-847-8800
TN EPI Inc Huntsville AL 205-883-0520
TX Sprague Elec Co Dallas 214-235-1256
TX Sprague Elec Co Austin 512-458-2514
VA Sprague Elec Co Lexington 703-463-9161
VA Sprague Elec Co Laurel MD 301-953-1717
VA Trinkle Sales Cherry Hill 609-795-4200
WA Sprague Elec Co Seattle 206-632-7761
WA Sprague Elec Co Vancouver 206-892-0361
WA Wm J Purdy Co Redmond 206-882-3144
WI D Dolin Sales Milwaukee 414-482-1111
FR Sprague Elec of Can Ltd
Downsview ON 416-665-6066
FR Sprague Elec of Can Ltd
Ottawa ON 613-238-2542
FR Lenbrook Elctns Surrey BC 604-585-9599

SPRAGUE ELECTRIC INTEGRATED

CIRCUITS DIV 115 NORTHEAST
CUTOFF WORCESTER MA 01606
TXW 710-340-6304 617-853-5000
EMP 700 ENG 50
CA Sprague Elec Co Los Angeles 213-642-0932
IL Sprague Elec Co Chicago 312-635-4021
MA Sprague Elec Co Boston 617-875-0968
For Sales Offices/Reps See Sprague Electric Co Listings

SPRAGUE-GOODMAN ELECTRONICS INC

134 FULTON AVE GARDEN
CITY PARK NY 11040 TWX 14-4533 516-746-1385
D TAUB EMP 90 ENG 4 \$5,000-\$10,000K
ADV PG 77

AZ Sanford Sales Box 10659 Phoenix 602-957-3570
CA SMC Fountain Valley 714-962-2023
CA W J Purdy 770 Airport Blvd
Burlingame 415-347-7701

CO Wm J Purdy Co 5570 E Yale
Av Denver 303-753-6800
FL Cole-Tek Box 780 Pompano Beach 305-781-8110
GA Spartech 704 Holcomb Br

Rd Norcross 404-446-7300
IL BNI Elctns Chicago 312-775-1717
IN Denton Mktg Inc 13006 Hardisty

St Wayne 219-627-5515
IA M-S-B Assoc 260 7 Ave Marion 319-377-6261
KS M-S-B Assoc Box 189 Shawnee
Mission 913-432-2131

MD Imagitron Sales Co Box
15060 Pikesville 301-521-2020
MA KSA of NE 155 Boston Rd
South Boro 617-485-9432

MI Fred H Gehrke & Assoc Southfield 313-559-5363
MO M-S-B Assoc 209 N 5 St
St Charles 314-946-5577

NJ Richman/Kagan 18 Tilghman
Dr Wayne 201-684-7682
NY Richman Sales Co 24 Florida
Av Commack 516-543-5532

NY Sweetco Assoc Utica 315-797-6721
OH Stegman Blaine Mktg 8444
Winton Rd Cincinnati 513-729-1969

TX Delta Components 312 Glendale
Seagoville 214-287-6333
WA Harry Levinson Seattle 206-382-1300

FR Norgay Enterprises Ltd
Toronto ON 416-239-3025
FR Norgay Datron Vancouver BC 604-299-4626

DISTRIBUTORS

AZ Arizona Components Phoenix 602-269-5655
CA National Capacitor Garden Grove 800-854-2451
CA Megacap Garden Grove 714-891-5176
CA Projections Unlimited Santa Ana 714-261-2323
MA Cronin Elect Needham 617-449-5000
NY Bomark Elect Stony Brook 516-689-8999
NY Varitech Lynbrook 516-593-9300
PA Alvo Electronics State College 814-238-0505
TX Capronics Dallas 214-340-3592
TX J & S Electronics Garland 214-487-8808
WA Kam Elect Seattle 206-382-1300

SPRAGUE SOLID STATE 3900

WELSH RD WILLOW GROVE
PA 19090 TWX 510-661-7267 215-657-8400
P PALZER EMP 500 ENG 80 OVER \$10,000K
For Sales Offices, Reps & Distributors see
Sprague Electric Co Listings.

SPRENGNETHER INSTRUMENTS INC

4150 LACLEDE AVE ST LOUIS
MO 63108 TWX 44-2399 314-535-1682
G TAFRA EMP 35 ENG 6 \$2,500-\$5,000K

SPRING CITY ELECTRICAL MFG CO

5 S MAIN ST BOX A SPRING CITY
PA 19475 215-948-4000
M KANTER EMP 90 ENG 4 \$5,000-\$10,000K

AZ Abbott Assoc Phoenix 252-6181
AR Geo E Anderson Co Inc Sherwood 717-2377
CA S L Bliss & Co Novato 897-5511
CA Total Lighting Dimensions
Chula Vista 425-1080
CO Stenco Sales Co Denver 355-3573
CT Ray Neelon Co Wallingford 265-2339

FL Fox-Rowden-McBrayer Tampa 623-2681
GA Hopper & McCoy Norcross 448-0540
HI Agencies/Pacific Honolulu 395-8343
IL Zemke & Martin Co Elmhurst 279-1455
IN Arthur A Boyle Co Indpls 257-4363
IA G F Pickel Sales Dubuque 588-3630
KS Fleming & Co Shawnee Mission 362-7150
KY Pfeiffer Sales Co Louisville 634-8314
LA Rapco Assoc Metairie 887-9500
MD Specialty Elec Sales Co

Owings Mills 356-7700
MA Ltg Eng Sales Reading 944-4610
MI Elec-Hesco Inc Madison Hts 546-7750
MN Lee-Noonan Co Minnetonka 938-1112
MS Rapco Assoc Hattiesburg 268-2681
MO Cooper Elec & Sales St Louis 638-3434
NY Warshaw Electric Jamaica 525-8150
NY Walter E Daw Co Inc Syracuse 463-8541
NC United Assoc Ltg Raleigh 781-8633
OH W W Baerbalck & Assoc Cincinnati 984-5050
OK G E Anderson Co Inc Tulsa 250-3115
OR Carlson Ziegler & Assoc Portland 297-8691
PA Renko Sales Pittsburgh 321-7900
SC Hopper & McCoy Taylors 244-3719
TN Lasley & Assoc Nashville 883-7557
TX Geo E Anderson Co Inc Dallas 428-3731
UT Mesa Intermtn SLC 266-4040
VA Specialty Elec Sales Richmond 638-6146
WI M & M Electrical Kaukauna 766-7703
FR Sales & Co San Juan PR 725-3703

SPRINGFIELD WIRE INC BOX 638

SPRINGFIELD MA 01101
TXW 95-5476 413-781-6950
J SCHENKEL EMP 250 ENG 10 OVER \$10,000K

SPRUCE PINE MICA CO INC

CARTERS RIDGE RD SPRUCE PINE
NC 28777 704-765-4241
B PITTMAN EMP 45

CA Straube Assoc Menlo Park 415 323-2476
NC Agents & Distributors Smithfield 919-934-7592
NC ADI Smithfield 919-934-8136
SC Federated Services Florence 803-346-3959

SQUARE D CO EXECUTIVE PLAZA

PALATINE IL 60067 TWX 25-5274 312-397-2600
R O'NEAL EMP 22,600 OVER \$10,000K
Sales Offices in all principal cities

SR ENGINEERING INC 13961

NAUTILUS DR GARDEN GROVE
CA 92643 TWX 364412 714-554-4200
C CONRAD EMP 40 ENG 5 \$2,500-\$5,000K

AL Spada & Assoc Huntsville 205-533-2732
AZ The Knight Co Phoenix 602-994-1311
CA Liaison Inc Hayward 41-783-1131
CA The Knight Co Los Angeles 213-670-2833
CO The Knight Co Colorado Spgs 303-574-5577
FL Southern Elctn Sales Jupiter 305-744-0028
IL Bierhaus Sales La Grange Park 312-354-5100
IA H Brown Sales Co Cedar Rapids 319-366-0635
MI Jack M Thorpe Co Detroit 313-779-6363
MN Northstar Motion & Control
St Paul 612-770-5311

MO R R Burton & Assoc Grandview 816-763-5385
NY Travco Assoc Roslyn Heights 516-621-2223
OH Geotronics Inc Cleveland 216-526-2535
TX Swearingen Sales Austin 512-339-8663
VA R W Mitscher Co Ashland 804-798-6777
WA Liaison Inc Seattle 206-767-3870
FR ISP Ltd Rishon Le Zion Israel 03-952331

SRS INDUSTRIES 903 S ALTA

VISTA AVE MONROVIA CA 91016
TXW 910-585-3486 818-357-3287
H SEXSON EMP 125 ENG 4

SSAC INC BOX 395 LIVERPOOL

NY 13088 TWX 646-221 315-622-1000
EMP 200 ENG 10

DISTRIBUTORS

CA Steven Engineering S San Francisco 415-588-9200
CA Control Design Buena Park 714-521-5040
CT Sager Elect Supply Wallingford 203-265-4600
FL A A Electric Lakeland 813-665-6941
GA Georgia Control Ctr Atlanta 404-876-8833
GA A A Electric Norcross 404-449-8670
IL Automation Equip Co Mt Prospect 312-398-7550
IN Control Design Indpls 317-788-4559
KS Delta Elect Supply Wichita 316-262-3756
MA Sager Elect Supply Hingham 617-749-6700
MA Tectrol Assoc W Springfield 413-733-3695
MN United Elec Supply Mpls 612-338-1915
MN Control Design Mpls 612-721-1628
MO Barr-Thorp Elec Co KC 816-531-8840
MO French Gerleman Maryland Hts 314-569-3122
MO SMC Electric Supply Springfield 417-865-2822
NJ Relay Specialties Fairlawn 201-797-3313
NJ A A Electric E Rutherford 201-777-5477
NJ Brownell Instr & Controls Edison 201-287-3030
NY Carlen Distributors Penfield 716-381-9050

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 NC Dixie Indus Supply Shelby..... 704-482-5641
 NC Brownell Instr & Controls
 Charlotte..... 704-597-1270
 OH Fee & McCarthy Inc Toledo..... 419-535-3163
 OH Milner Electric Cleveland..... 216-361-0300
 OH Amfac Electric Clackamas..... 503-657-3020
 PA Cumberland Elect Harrisburg..... 717-233-5883
 PA Control Design Malvern..... 215-296-0150
 TX Watson Electric Dallas..... 214-742-8441
 VA Hermitage Dist Glen Allen..... 804-798-3830
 WI Control Design New Berlin..... 414-784-1015
 FR Banke Electronics Scarborough ON..... 416-292-5152

SSI TECHNOLOGIES INC BOX 5002
 JANESVILLE WI 53547..... 608-755-1900
 J ANDERSON EMP 300 ENG 8 OVER \$10,000K

STABRO LABS INC 25 KENSINGTON
 AVE SALT LAKE CITY UT 84115..... 801-487-1344
 D EBBERT EMP 300 ENG 1 \$1,000-\$2,500K

DISTRIBUTORS

UT Intermountain Inst Inc SLC..... 801-487-3151

STACKPOLE, CARBON DIV 201
 STACKPOLE ST ST MARYS
 PA 15857 TWX 510-693-4511..... 814-781-1234
 B SPEEDY

THE STACKPOLE CORP ELCTN
 COMPONENTS DIV 201 STACKPOLE
 ST ST MARYS PA 15857
 TWX 510-693-4511..... 814-781-1234
 R BRAUND EMP 4200 ENG 150

AL Electronic Sales Huntsville..... 205-533-1735
 AL R W Mitscher Co Huntsville..... 205-539-0009
 AZ Luscombe Engineering Co
 Scottsdale..... 602-949-9333
 CA Luscombe Eng of LA Pasadena..... 213-684-2000
 CA Luscombe Eng San Fran Campbell..... 408-370-2020
 CA Luscombe Eng San Diego San Diego..... 619-295-4300
 CO Western Region Mktg Westminster..... 303-430-8883
 FL Electrocraft Inc Largo..... 813-530-4749
 FL Electrocraft Inc Winter Park..... 305-628-4705
 FL Electrocraft Inc Coral Springs..... 305-753-8666
 GA Electronic Sales (ESI) Norcross..... 404-448-6554
 IL Stackpole of IL Des Plaines..... 312-297-0270
 IN Stackpole of IN Bloomington..... 812-339-6166
 KS Electri Rep Inc Overland Pk..... 913-649-2168
 MD R W Mitscher Co Laurel..... 301-498-6090
 MA Stackpole of NE Wilmington..... 617-658-3800
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NY Metropolitan Sales Brooklyn.....718-336-7600
OH United Radio Inc Cincinnati.....513-761-4030
OR United Radio Supply Portland.....503-233-7151
TX R & T Henry Elect Channelview.....713-452-4451
TX Cooper Alarm Supply Houston.....713-868-1794
TX Wholesale Elec Supply Dallas.....214-824-3001
TX Foxfire Dallas.....214-353-9543
WI NEP Electronics New Berlin.....414-785-9100
FR Lenbrook Electronics Markham ON.....416-477-7722

STAR MICROWAVE 546 DIVISON ST
CAMPBELL CA 95008.....408-370-6868
B ESPINOSA EMP 20 ENG 7 \$500-\$1,000K
IL Dytec Central Arlington Hts.....312-394-3380
PA Eastern Instrumentation Bensalem.....215-245-6660
VA Creative Mktg Assoc McLean.....703-442-9100

STAR PORCELAIN CO 61 MUIRHEAD
AVE TRENTON NJ 08638.....609-392-3154
A WEIGOLD EMP 100 ENG 2 \$2,500-\$5,000K

STARRETT CO THE L S 121
CRESCENT ST ATHOL MA 01331
TWX 710-390-0271.....617-249-3551
C MORROW EMP 2000 OVER \$10,000K

STAR-TRON CORP 58 CURTIS ST
PROVIDENCE RI 02909
TWX 929490.....401-274-5090
A CARBONE EMP 49 ENG 2 \$1,000-\$2,500K
NY SGS Sales & Mktg Ltd Syosset.....516-921-5335

STATEK CORP 512 N MAIN ST
ORANGE CA 92668
TWX 910-593-1355.....714-639-7810
G BUNCH EMP 100 ENG 10 \$5,000-\$10,000K
AL Mackay Smith & Assoc Huntsville.....205-539-8000
AZ Eltron Phoenix.....602-266-2164
CA Weseloh/Swanson & Assoc Mt View.....415-961-0565
CA Martronix El Toro.....714-858-0632
CA Mesa Engineering San Diego.....619-278-8021
CO Elcom Inc Denver.....303-337-2300
FL MacKay Smith & Assoc Orlando.....305-423-4353
FL MacKay Smith & Assoc Maderia Bch.....813-530-1873
GA MacKay Smith & Assoc Norcross.....404-449-7444
IL Raines & Assoc Northbrook.....312-498-0980
IN M/S Sales & Assoc Ft Wayne.....219-432-3023
IN M/S Sales Indpls.....317-257-8916
KS Thos L Dowell & Assoc Overland Pk.....913-648-7373
MD Professional Reps Columbia.....301-992-7460
MA Radian Assoc Woburn.....617-933-7386
MI Gehrke Assoc Southfield.....313-559-5363
MN Murnco Inc Bloomington.....612-854-4161
MO Thos L Dowell & Assoc St Louis.....314-849-4234
NJ Tai Corp Bellmawr.....609-933-2600
NY Pl Tronics Syracuse.....315-455-7346
NY Win-Cor Electronics Manhasset.....516-627-9474
NC MacKay Smith & Assoc Charlotte.....704-372-1187
OH Omega Sales Inc Centerville.....513-434-5507
OK Norcom Inc Tulsa.....918-832-7747
TX Norcom Inc Dallas.....214-386-4488
UT Elcom Inc SLC.....801-485-4815
WA Halbar Assoc Redmond.....206-882-0990

DISTRIBUTORS
AL Contact Electronics Huntsville.....205-811-9321
CA Target Electronics Mt View.....408-734-5611
CA Ryno Electronics Irvine.....714-261-2500
CA Ryno Electronics San Diego.....619-453-8430
CO Industrial Elect Englewood.....303-694-9444
FL Intertec Distributors Longwood.....305-834-7777
IL Ohm Electronics Palatine.....312-359-5500
IN Mar Electronics Indpls.....317-875-4510
MD Aztech Electronics Columbia.....301-995-1760
MA First Frequency Woburn.....617-935-3885
NY Summit Distr Buffalo.....716-884-3450
NY QAR Ind Elctn Mt Vernon.....914-699-2224
OH Olive Electronics St Louis.....314-426-4500
OR Rose Electronics Lake Oswego.....503-629-9288
TX Ewing Electronics Richardson.....214-231-6725

STATE OF THE ART INC 2470
FOX HILL RD STATE COLLEGE
PA 16803-1797 TWX 866633.....814-355-8004
B RAY EMP 80 ENG 4 \$2,500-\$5,000K
AZ Eltron Inc Phoenix.....602-266-2164
CA Meade Assoc Santa Clara.....408-748-1991
CA Select Elctns La Miranda.....714-739-8891
CT Masten-Wright Inc New Haven.....203-288-1638
FL Micro Mktg Inc Orlando.....305-788-0886
IL Crimson Engrg Sales Glenview.....312-470-0024
MN Peterson Sales & Assoc Edina.....612-944-0030
NY Compar New York Huntington.....516-423-5660
NY Watmet Inc Lewiston.....716-285-3595
PA E L Assoc Colmar.....215-822-2510
TX Merino Sales Co Dallas.....214-233-6002
WA Mars Bellevue.....206-747-3292
FR Waters Metal Prods Niagara Falls ON.....416-356-4925

DISTRIBUTORS
MA Semi-Dice South Easton.....800-345-6633
MA Semi-Dice Los Alamitos.....213-594-4631
NJ C H P S Fairfield.....201-882-0997

STATES CO DIV MULTI-AMP CORP
4271 BRONZE WAY DALLAS
TX 75237 TWX 910-861-9052.....214-333-3201
B DEPTA EMP 350 ENG 50 OVER \$10,000K
CA Multi-Amp Corp Hollywood.....213-461-1865
UT Multi-Amp Corp Red Bluff.....916-527-3195
CO Mountain States Mch Co Denver.....303-934-2451
GA Multi-Amp Corp Norcross.....404-448-4224
MA Danek Assoc Needham Hts.....617-444-8838
MO Cleaves-Bessmer-Marietti KC.....816-353-6011
NJ Multi-Amp Corp Somerset.....201-745-9099
NC Multi-Amp Corp Goldsboro.....919-734-1924
PA Multi-Amp Corp McMurray.....412-941-1670
TX Multi-Amp Corp Houston.....713-580-2457
UT Rogers-Strong Assoc SLC.....801-486-4778

DISTRIBUTORS
WI Multi Amp Corp Milwaukee.....414-281-6310

STATIC INC BOX 80 SKIPPACK
PA 19474 TWX 846079.....215-584-9600
B BROD EMP 50

STAVER CO INC 41-51 SAXON AVE
BAY SHORE NY 11706
TWX 6711657.....516-686-8000
A LAZARUS EMP 135 ENG 3 \$2,500-\$5,000K

STA-WARM ELECTRIC CO INC
BOX 150 DEPT 23 RAVENNA
OH 44266 TWX 751868.....216-296-6461
T FUREY EMP 15 ENG 1
AL Applebee-Church Birmingham.....879-4417
AZ Montgomery Bros Inc Tempe.....966-5864
CA Montgomery Bros Burlingame.....697-6500
CA Montgomery Bros City of Commerce.....721-6784
CO E & M Sales Inc Englewood.....761-6202
CT Dittman & Greer Inc Middletown.....347-4655
FL J J Galeher Co Clearwater.....461-7706
GA Applebee-Church Inc Atlanta.....451-2747
IL Tourtelot Co Itasca.....250-9300
IN Couchman-Conant Inc Indpls.....849-9890
IA Volco Co Davenport.....326-5233
KS Heat Process & Control Prairie Vlg.....341-1800
LA Ross & Pethtel Inc Baton Rouge.....293-0520
MD Faber-Renoff Inc Glen Burnie.....768-4554
MA Leo C Pelkus Inc Boston.....235-8040
MI Randy Smith Inc St Clair Shores.....776-8800
MN Volco Co Mpls.....933-6631
MO BDC Inc St Louis.....993-5810
NJ Faber Assoc Clifton.....773-8900
NY Niagara Electric Sls Co Buffalo.....886-4000
NC Carolina Tech Reps Matthews.....847-4494
OH Anderson-Bolds Inc Cleveland.....229-4700
OK Don Shuhart Co Tulsa.....747-4136
OR Montgomery Bros Portland.....285-5000
PA Skahan Heating Inc King of Prussia.....337-0991
SC Applebee-Church Inc Columbia.....772-3142
TN Applied Thermal Sys Nashville.....292-7016
TX Gaumer Co Houston.....460-5200
UT Montgomery Bros Inc SLC.....972-8989
VA Virginia Tech Assoc Richmond.....266-9654
WA Montgomery Bros Seattle.....881-9393
WI Electric Thermal Sys Butler.....781-1150

STD MICROSYSTEMS 399 SHERMAN AVE
PALO ALTO CA 94306.....415-327-6800
G WHITTAKER EMP 20 ENG 7

STEARNS COMPUTER SYSTEMS
10371 W 70 ST BOX 9384
MINNEAPOLIS MN 55440
TWX 882792.....612-829-0361
M LANE EMP 25 ENG 3 \$5,000-\$10,000K

STEP ENGINEERING 661 E
ARGUES BOX 61166 SUNNYVALE
CA 94088 TWX 910-339-9506.....408-733-7837
S TRUMBULL EMP 50 ENG 20
CA J Lange/B Ellis Orange.....714-937-9255
MA S O'Brien Brookline.....617-734-4250
TX J Clary Lindale.....214-593-9960

STERLING ELECTRIC INC 16752
ARMSTRONG AVE IRVINE CA 92714
TWX 678-458.....714-474-0520
EMP 250 ENG 9 OVER \$10,000K

AZ Weeco Sales Phoenix.....239-7527
AR Turner Sales Co Little Rock.....227-7073
CA R L Hanley & Assoc San Mateo.....347-1492
CA Anderson-Skidmore Co Fullerton.....924-4217
CO Ted Miller Assoc Denver.....758-3912
FL Industrial Appar Co Ft Lauderdale.....561-0340
GA Industrial Appar Co Atlanta.....875-8086
IL Sterling Electric Arlington Hts.....640-8626
IN J Hans Dienelt & Assoc Ft Wayne.....484-7961
IA I L Dalton Co Des Moines.....265-0288

MA M C Bright Co Chelmsford.....256-5061
MI Electro Power Sales Brighton.....229-2933
MO I L Davidson Co St Louis.....291-1684
NY Prime Indus Components Paramus.....262-9090
NJ H D McCleary Assoc E Aurora.....652-1042
NC Jake Rudisill Assoc Charlotte.....377-8901
OH Midwest Drives Cincinnati.....841-0600
OR Leahy Assoc Portland.....645-5924
PA Hostvedt & Assoc Phila.....247-9328
TX Jemco Industries Houston.....537-2580
UT Hanley-Brewton & Assoc SLC.....467-1239
WA Leahy Assoc Bellevue.....474-4847
WI Motion Equip Inc Milwaukee.....548-1805
FR Sterling Power Sys Hamilton ON.....547-2345

STERLING GROUP REICHHOLD
CHEMICALS 1950 OHIO RIVER BLVD
SEWICKLEY PA 15143
TWX 710-668-3877.....412-766-7600
T J KING EMP 105 ENG 10 \$5,000-\$10,000K

STERLING INSTRUMENT DIV
DESIGNATRONICS INC 55
S DENTON AVE NEW HYDE PARK
NY 11040 TWX 510-223-0642.....516-328-3300
M ORES EMP 210 ENG 6 \$1,000-\$2,500K
AZ Tri Fab Sales Rep Co Phoenix.....265-3341
CA Western Components Chatsworth.....818-822-6226
CO Manufactures Market Corp Wheatridge.....303-238-8361
FL Irby & Connolly Inc Orlando.....305-949-5197
IL Allen Woods & Assoc Des Plaines.....312-283-7400
MD Imagination Sales Pikesville.....301-484-1411
MI R C Nordstrom Co Lathrup Vlg.....313-559-7373
NY KLM-Garner Inc Clark Mills.....716-684-6250
OH Rockford Controls Euclid.....614-231-5890
TX Zonk & Assoc Richardson.....214-238-7651

STERLING MFG CO 1845 E 30TH ST
CLEVELAND OH 44114.....216-781-7136
J FINE EMP 100 ENG 4
IL Saffro Assoc Evanston.....312-328-0140
MA Jesco Inc Lexington.....617-863-1598
MI Jay Mktg Assoc Plymouth.....313-459-1200
MO Midland Engr Sales Shawnee Mission.....913-236-7300
NY A Schluman Wantagh.....516-826-5550
OH Bradcor Elctns Co Cleveland.....216-261-0888
PA DVS Company Washington Crossing.....215-493-4642

STERLING TRANSFORMER CORP
510 DRIGGS AVE BROOKLYN
NY 11211.....718-782-4200
P ODESSEY EMP 45 ENG 3 \$1,000-\$2,500K
CA Tim-Co Sales Van Nuys.....781-7370
OH Lessis Assoc Dayton.....513-294-1551

STETSON INTERNATIONAL INC
90 BROADWAY BUFFALO NY 14203
TWX 911-336.....716-854-3443
R CULLITON EMP 35
AL EPI Inc Madison.....205-461-7000
CA Nor-Cal Assoc Palo Alto.....415-966-6612
CA Darco Culver City.....212-827-2202
CO Hal-Tech Sales Englewood.....303-781-5475
ID Cascade Components Boise.....208-343-9886
IL M Gottlieb Assoc Chicago.....312-775-1151
IN M Gottlieb Assoc Indpls.....317-846-5788
MA Northeast Reps Hingham.....617-749-8700
MI Murnco Bloomington.....612-854-4161
MO Hughes Assoc Corinth.....601-287-2915
NJ P Sattler Assoc Ocean.....201-922-3014
NY P Sattler Assoc Lynbrook.....516-593-7880
NY P Tronics Syracuse.....315-455-7346
OH Technical Devices Dayton.....513-890-6811
VA FBD Sales Corp Portsmouth.....801-484-3162

DISTRIBUTORS
CA National Electro Sales Van Nuys.....213-781-0505
CA National Electro Sales Santa Ana.....714-541-6181
CO Denver Wiretronics Arvada.....303-431-7161
CT Cronin Electronics Wallingford.....203-265-3134
CT Sager Elec Supply Wallingford.....203-265-4600
FL Nurmec Elec Supply West Palm Bch.....305-686-8553
IL Classic Components Northbrook.....312-272-9650
MA Cronin Electronics Needham.....617-449-5000
MA Sager Elec Supply Hingham.....617-749-6700
NC Kirkman Electronics Winston-Salem.....919-722-9131
WA Shannon Ltd Kent.....206-763-0545
WI Classic Components New Berlin.....414-786-5300

STETTNER ELECTRONICS INC
6135 AIRWAYS BLVD CHATTANOOGA
TN 37421 TWX 810-573-5224.....615-892-0291
EMP 30 ENG 3

DISTRIBUTORS
AZ Arizona Components Phoenix.....602-269-5655
CA California Components San Marcos.....619-471-0123
CA Capacitors Unltd San Jose.....408-946-7676
CA Capscos Sales Sunnyvale.....408-734-3020
CA Component Service West Covina.....818-960-4761
CA Cypress Elect Torrance.....213-533-6005
CA Inductive Products Garden Grove.....800-421-4830

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FL Southeast Comp Svcs Longwood..... 305-767-0209
NJ B & R Elect Garfield..... 201-470-0700
NY Masline Elect Rochester..... 716-546-5373
PA Century Elect Comps Norristown..... 215-631-5400
PA Electronic Comps For Industry
York..... 717-843-8971
TX Prime Dist Co Allen..... 214-231-0170

STEVENS PRODUCTS INC 128
N PARK ST EAST ORANGE
NJ 07019..... 201-672-2140
J THOMSON \$1,000-\$2,500K

STEWART MFG CO D M BOX 510
CHATTANOOGA TN 37401..... 615-867-4100
D LAYTON EMP 200 ENG 12 OVER \$10,000K
ADV PG 249

STEWART STAMPING CORP 630
CENTRAL PARK AVE YONKERS
NY 10704 TWX 710-560-0008..... 914-965-0816
EMP 450 ENG 20 OVER \$10,000K

STICHT CO INC HERMAN H
27 PARK PL NEW YORK NY 10007..... 212-732-8163
P PLOTKIN EMP 35 ENG 5 \$2,500-\$5,000K
IL Murphy & Dickey Westchester..... 344-5660
MD W H Cooke & Co Finksburg..... 833-8200
MI George R Peters Assoc Troy..... 362-1220
NC W K Hile Co Matthews..... 247-1925
OH Annett Indust Sales Cincinnati..... 271-0030
OR James L Kearns Co Wilsonville..... 236-1165
PA Wistex Norristown..... 630-0770
TX Brice Co Ballaire..... 800-392-8697
WI Tr Bickler Assoc Wauwatosa..... 784-2600
FR Mario R Franceschini Inc
Santurce, PR..... 723-4511

STIMPSON CO INC 900 SYLVAN AVE
BAYPORT NY 11705..... 516-472-2000
E DEWALTERS EMP 900 OVER \$10,000K
RI Stimpson Co Cranston..... 401-942-1311

STOCK DRIVE PRODUCTS INC
DIV DESIGNATRONICS 55
S DENTON AVE NEW HYDE PARK
NY 11040 TWX 510-223-0642..... 516-328-0200
M ORES EMP 210 ENG 6
For Sales Reps See Sterling Instrument Div Listings

STOCKER & YALE INC RTE
128 & BRIMBAL AVE BEVERLY
MA 01915..... 617-927-3940
M LAVEY EMP 135 ENG 12 \$2,500-\$5,000K

STOELTING CO 1350 S KOSTNER
CHICAGO IL 60623 TWX 314176..... 312-522-4500
D MILLER EMP 60 ENG 4 \$2,500-\$5,000K

STONE CORP MEMORY PRODUCTS DIV
1501 MICHIGAN ST SIDNEY
OH 45365 TWX 810-450-2722..... 513-492-1111
J FAIR EMP 220 ENG 35 OVER \$10,000K
CA Stolle Corp Cupertino..... 408-446-1881

STONER COMMUNICATIONS INC
9119 MILLIKEN AVE RANCHO
CUCAMONGA CA 91730 TWX 676-468..... 714-987-4624
J REID ENG 2 \$2,500-\$5,000K

STONE SAFETY CORP BOX 798
WALLINGFORD CT 06492
TWX 963454..... 203-265-7131
D BURT EMP 380 ENG 20 OVER \$10,000K

MA
STONITE COIL CORP RTE 156
BOX 11036 TRENTON NJ 08620..... 609-585-6600
EMP 20 ENG 2

STORM PRODUCTS CO 112 S
GLASGOW BOX 1668 INGLEWOOD
CA 90301..... 213-776-8141
EMP 390 ENG 7

AZ Storm Prods Phoenix..... 602-269-3485
CA Storm Prods Santa Clara..... 408-749-9400
CO Storm Prods Broomfield..... 303-466-1991
IL Storm Prods Hinsdale..... 312-323-9121
TX Storm Prods Dallas..... 214-330-1381
WA Storm Prods Woodinville..... 206-488-7400

STRAINDYNE ENGINEERING CO
13661 LA PALOMA RD LOS
ALTOS HILLS CA 94022..... 415-948-3227
K MCFARLAND EMP 10 ENG 2 UP TO \$100K

STRAINSTRET CO UNION HILL IND PK
WEST CONSHOHOCKEN PA 19428
TWX 510-660-8059..... 215-825-3310
EMP 30 ENG 3 \$1,000-\$2,500K

FL Structural Engrg & Test
Clearwater..... 813-442-7767
IL J E M Enterprises Cary..... 312-639-1770
KS Aero-Hill Sales Inc Wichita..... 316-682-2052
NY Metallurgical Equip Mt Vernon..... 914-664-6238
OH Stress Analysis Svcs Medina..... 216-725-7733
PA Measurements Inc Exton..... 215-524-0310
SC Henry A Cook Assoc Spartanburg..... 803-576-8594
TX Chauvin Engrg Co Houston..... 713-795-5466
UT Applied Engr Prods Co SLC..... 801-532-5343
VA Measurements Inc Fredericksburg..... 703-373-5520
WA Brett Assoc Seattle..... 206-431-8090
FR Intertechnology Ltd Don Mills ON..... 416-445-5500

STRANDBERG ENGINEERING LABS INC
1001 S ELM ST GREENSBORO
NC 27406 TWX 574363..... 919-274-3775

C STRANDBERG JR EMP 65 ENG 7 \$1,000-\$2,500K

STRATUS COMPUTER INC 55
FAIRBANKS BLVD MARLBORO
MA 01752 TWX 294-112..... 617-460-2000
W THOMPSON EMP 800 ENG 130 OVER \$10,000K
AZ J Kloos Phoenix..... 602-952-8262
CA T Mendoza Los Angeles..... 213-410-9516
CA J Jones San Francisco..... 415-433-9120
CO G Hupp Denver..... 303-779-8440
DC C Sparks Washington..... 703-448-8500
FL T Matson Tampa..... 813-879-9853
GA W Kunz Atlanta..... 404-257-9825
IL M Wallrich Arlington Hts..... 312-228-6880
MA B Hawkes Boston..... 617-237-0110
MI G Voight Detroit..... 313-353-5411
MN R Wilson Mnpls..... 612-854-9449
NJ E LaFrance Newark..... 201-939-5526
NY B Stoltz New York..... 212-509-4044
OH R Zeisler Cincinnati..... 513-489-4660
TN Stratus Computer Knoxville..... 615-691-2913
TX T Orsco Dallas..... 214-458-0402

STRAWBERRY TREE COMPUTERS
1010 W FREMONT SUNNYVALE
CA 94087..... 408-736-3083

DISTRIBUTORS
CA Everett/Charles Mktg Svcs
Fontana..... 714-899-2411

STREETER RICHARDSON DIV
155 WICKS ST GRAYSLAKE
IL 60030 TWX 6871111..... 312-223-4801
M TINSLEY EMP 250 ENG 30 OVER \$10,000K
AL Streeter Richardson Birmingham..... 205-595-0587
CA Streeter Richardson Concord..... 415-827-3233
CA Streeter Richardson Montebello..... 213-723-7035
GA Streeter Richardson Marietta..... 404-953-3601
IL Streeter Richardson Elmhurst..... 312-833-9431
LA Streeter Richardson Metairie..... 504-831-2131
MD Streeter Richardson Baltimore..... 301-682-2292
MA Streeter Richardson Avon..... 617-588-3770
MN Streeter Richardson Eden Prairie..... 612-944-8665
NJ Streeter Richardson Clifton..... 201-471-3400
OR Streeter Richardson Beaverton..... 503-641-8045
PA Streeter Richardson Pittsburgh..... 412-561-2733
TX Streeter Richardson Houston..... 713-467-0229
WI Streeter Richardson Milwaukee..... 414-462-0680

STRIPPI 12975 CLARENCE
CENTER RD AKRON NY 14001..... 716-542-4511
S AUGUSTINE EMP 700 ENG 20 OVER \$10,000K

AL Strippi Birmingham..... 312-593-8440
CA Strippi Div Los Angeles..... 714-632-8600
CA R Gorman San Francisco..... 714-632-8600
CO Campbell Denver..... 303-373-8525
FL S Knochner Orlando..... 312-593-8440
GA Strippi Atlanta..... 312-593-8440
IL Strippi Elk Grove Vlg..... 312-593-8440
KS Strippi Wichita..... 714-632-8600
MA Robt E Morris Co Boston..... 617-964-1500
MI Strippi Detroit..... 312-593-8440
MN R Sprick Minneapolis..... 312-593-8440
NY Strippi Akron..... 716-542-4511
OK G Wagner Greensboro..... 312-593-8440
OH J Rondas Cleveland..... 312-593-8440
NC Fabrication Systems Tulsa..... 918-836-4300
PA Pennco Lancaster..... 717-559-0420
SC G Wagner Greenville..... 312-593-8440
TX Cambell Machinery Arlington..... 312-593-8440
UT Smith Machinery Salt Lake City..... 801-355-4545
WA Halladie Seattle..... 206-383-0600
WI R Sprick Milwaukee..... 312-593-8440

STROBLITE CO INC 430 W 14 ST
NEW YORK NY 10014..... 212-929-3778
R ANDERSEN EMP 2 ENG 1 UP TO \$100K

STRONGBOX BOX 84508 LOS ANGELES
CA 90073..... 213-204-0472
L MARTINEK EMP 3 ENG 1 \$100-\$250K

NM Betatron Albuquerque..... 505-344-2381

STRUTHERS-DUNN INC LAMB'S RD
PITMAN NJ 08071
TWX 510-686-7510..... 609-589-7500
W CAPEWELL EMP 433 ENG 10 OVER \$10,000K

AL REP Inc Huntsville..... 205-881-9270
AZ Hecht, Henschen & Assoc Phoenix..... 602-275-4411
AR Controls & Power Inc Little Rock..... 501-661-1737
CA Wiley Co La..... 213-666-1611
CA Mollard Mktg Santa Clara..... 408-727-2050
CO Lindberg Co Denver..... 303-758-9033
CT Zaslow Sales Co Bloomfield..... 203-242-7781
FL Ludlum Assoc Miami..... 305-592-6524
IL Rockford Controls Co Glen Elyn..... 312-469-6016
IA BSI, Ltd Bettendorf..... 319-355-5623
KS Avionics Engrg Sales Co Wichita..... 316-264-6201
LA Kemp Engrg Co Lafayette..... 318-269-9452
MI L H Dickelman Co Southfield..... 313-353-8210

MN Hitt & Assoc Maryland Hts..... 314-878-5404
MO Grimm, Siegel Assoc West
Caldwell..... 201-575-9300
NJ H C Zang Agency Buffalo..... 716-877-3677
NY Jake Rudisill Assoc Charlotte..... 704-377-6901
NC Struthers Dunn Inc Stronhville..... 412-572-1333
PA Russell F Clark Co Pittsburgh..... 412-242-9500
TN Controls & Power Inc Memphis..... 901-332-0036
TX W Pat Fralla Co Bedford..... 817-267-3577
VA Jake Rudisill Richmond..... 804-320-0201
WA Eicher-Richards, Co Seattle..... 206-523-7888
FR Renfrew Elect Mktg Ltd
Scarborough ON..... 416-752-4611

DISTRIBUTORS
AL M-G Elec Birmingham..... 205-328-4525
AL Brownell-Electro Mobile..... 205-479-8581

AZ Electro Comps Phoenix..... 602-258-2665
CA Western Electro Mech Oakland..... 415-452-1936
CA Integrated/Jaco Chatsworth..... 213-998-2200
CA Master Dist LA..... 213-452-1229
CA Norstan Elec Santa Ana..... 714-250-4903
CO Component Spec Aurora..... 303-341-0160
FL A-A Elec Lakeland..... 813-665-6941
FL ESL Elect Dist Miami..... 305-593-6060
GA Brownell Electro Atlanta..... 404-762-5181
GA A A Electric Norcross..... 404-449-8670
IL Electric Sply Wood Dale..... 312-595-3170
IN Klaus Radio Peoria..... 309-691-4840
IN Graham Elec Ft Wayne..... 219-423-3422
IN Graham Elect Indpls..... 317-634-8202
KS Kornfeld-Thorp KC..... 913-321-7070
LA Menard Elec Baton Rouge..... 504-355-0323
ME Leen Co Portland..... 207-774-6266
MD Graybar Elec Baltimore..... 301-342-5500
MD Whitney Baltimore..... 301-944-8080
MD Apparatus Svc Alliston..... 617-787-1300
MA T F Cushing Springfield..... 413-788-7341
MI Newark Elect Grand Rapids..... 616-241-6681
MN Jasper Engr & Equip Hibbing..... 218-262-3421
MN Stark Elect Sup Mnpls..... 612-332-1325
MS Elington Electron Jackson..... 601-355-0561
MO L Comp Maryland Hts..... 314-291-6200
MO Interstate Ind Elect St Louis..... 314-423-4322
NE Graybar Elec Omaha..... 402-592-7676
NJ Relay Specialties Fairlawn..... 201-797-3313
NM Electronic Devices Albuquerque..... 505-293-1935
NY ACI Plainview..... 516-293-6630
NY Brownell-Electr New York..... 212-924-6000
NC Brownell-Electro Charlotte..... 704-597-1270
OH Milner Electric Cincinnati..... 216-361-0300
OH F N Cuthbert Inc Toledo..... 419-385-0881
OK Electric Enrtps Okla City..... 405-427-6591
OR Johnstone Warehouse Portland..... 503-484-6333
PA Advance Industrial Sales
Monroeville..... 412-372-0151

PA CAM/RPC Pittsburgh..... 412-782-3770
SC Hammond Elect Greenville..... 803-233-4121
TN Brownell-Electro Nashville..... 615-889-8230
TX Graybar Elec Dallas..... 214-744-1421
TX Lenet Co Houston..... 713-225-1465
UT Stuart Elect Sply S L C..... 801-466-8603
VA Sterling Elect Richmond..... 804-226-2190
VA Williams Supply Roanoke..... 703-343-9333
WA Eicher-Richards Seattle..... 206-523-7888
WV Fairmont Supply Co Bluefield..... 304-327-3451
WI Automation Engr Cedarburg..... 414-377-7500
WI Marsh Electron Milwaukee..... 414-475-6000

STRUTHERS ELECTRONICS CORP
10 EXECUTIVE BLVD FARMINGDALE
NY 11735 TWX 510-224-6112..... 516-420-9000
J OCCHIUTO EMP 75 ENG 6

S T SEMICON INC 415 N COLLEGE
AVE BLOOMINGTON IN 47401
TWX 810-351-1384..... 812-332-1435
B MULDOON EMP 125 ENG 10 \$5,000-\$10,000K

AZ G & B Ecltns Litchfield Pk..... 602-935-3984
CA Angle Irvine..... 714-833-0692
FL Jack Krutek & Assoc Deerfield
Beach..... 305-427-4202
IL Saffro & Assoc Lincolnwood..... 312-677-9270
IN Science Sales Ossian..... 219-622-7383
MA Stone Comp Sales Framingham..... 617-875-3266
MI Dem Ecltn Sales Warren..... 313-575-9444
MN Scott Electronic Sales
Minneapolis..... 612-929-2985
MO Acorn Ecltns St Louis..... 314-644-2510
NJ Simberloff Sales South Orange..... 201-763-7900
NC DHM Marketing Raleigh..... 919-876-5450
OH Del Steffen & Assoc Cleveland..... 216-461-8333
OR Leahy Assoc Portland..... 503-645-5924
PA Rayco Inc Parkland..... 215-757-1899
TX KITE Ecltn Sales Irving..... 214-986-0321
WI Erdman Sales Co Milwaukee..... 414-281-1330
FR Frank Eakin Ltd Rexdale ON..... 416-245-3600

DISTRIBUTORS
CA Kea Elect Hayward..... 415-887-2900
FL ESL Elect Dist Miami..... 305-633-6973
IL OHM Elect Palatine..... 312-359-5500
IN Graham Elect Indpls..... 317-634-8202
LA Radio Parts New Orleans..... 504-581-5959
MI Shand Elect Flint..... 313-743-8940
MI Wademyer Elect Sup Ann Arbor..... 313-665-8611
MO Walters Radio Supply KC..... 816-531-7015
NJ State Elect Parts Hanover..... 201-887-2550
NY General Radio Sply Camden..... 609-964-8560
NY Summit Dist Buffalo..... 716-884-3450
NC Southeastern Elect Raleigh..... 919-828-2311
OH Stotts-Friedman Co Dayton..... 513-298-5555
TX Harrison Equipment Houston..... 713-879-2600
WI Marsh Elect Milwaukee..... 414-475-6000

STURDILITE/FLEXIBLE FURNITURE DIV
323 ACORN ST PLAINWELL
MI 49080..... 800-858-0055
S HAMBRIGHT EMP 100 ENG 6

SUBCON MFG CORP 201 BERG ST
ALGONQUIN IL 60102..... 312-658-6525
C WALNECK EMP 30

SUBMARINE SIGNAL DIV RAYTHEON CO
1847 W MAIN RD BOX 360
PORTSMOUTH RI 02871
TWX 710-382-6923..... 401-847-8000
J MARTIN EMP 2500 ENG 850 OVER \$10,000K
VA Raytheon Corp Arlington..... 703-522-6060

SUB-TRONICS INC BOX 69 STACY
MN 55079..... 612-462-2541
J STEWART EMP 50 ENG 1 \$500-\$1,000K

SUCKLE CORP 733 DAVIS ST
SCRANTON PA 18505.....717-346-3871
J CASTELLINO EMP 200 ENG 6 OVER \$10,000K
CT CEA Assoc West Redding.....203-226-4605
GA R Panyik Liburni.....404-472-8009
MA CEA Assoc Whitehorse Bck.....617-224-6255
NH CEA Assoc Hudson.....603-889-8792
NJ J Cammarato Cherry Hill.....609-772-2321
PA J Castellino Scranton.....717-346-4097

SULLINS ELECTRONICS CORP
801 E MISSION RD BOX 189
SAN MARCOS CA 92069
TWX 910-322-1472.....619-744-0125
K PHILLEY EMP 100 ENG 1 \$5,000-\$10,000K
CA KCP Enterprises LA.....818-796-1813
CA Nova-Tronics Santa Clara.....408-727-9530
CO Cluff & Assoc Arvada.....303-423-9354
CT Cycle Sales Hanson MA.....617-293-9134
FL OEM Marketing Orlando.....305-299-1000
GA Effective Mktg Force Atlanta.....404-948-6023
IN Sukup & Cox Indpls.....317-253-5501
IA M-S-B Assoc Marion.....319-377-6261
MA M-S-B Sales Marlboro.....617-293-9134
MN RK Sales Mpls.....612-796-5713
MO M-S-B Assoc St Charles.....314-946-5577
NJ Component Consultants Medford.....609-654-5300
NY HLJ Comp Tech Lynbrook.....516-599-2999
OH Electronic Sales Masters
Beachwood.....216-831-9555
TX T L Marketing Dallas.....214-357-1752
TX T L Marketing Austin.....512-453-4586
UT Cluff & Assoc Salt Lake City.....801-261-5426
WA Electronic Mktg Group Bellevue.....206-746-5915
WI Artmor Ltd Mequon.....414-241-4040

DISTRIBUTORS
AZ Arizona Components Phoenix.....602-269-5655
CA Cypress Electronics Torrance.....213-533-6005
CA Cypress Electronics San Jose.....408-945-8400
CA Sigma Electronics San Diego.....714-565-2000
CO Denver Wintronics Denver.....303-934-2406
CO Cypress Electronics Wheatridge.....303-431-2622
FL Electronic Equip Co Winter Park.....305-644-4833
GA Deanco Winter Park.....305-671-5100
FL Deanco Marietta.....404-429-0126
IL Belford Electronics Melrose Pk.....312-865-2400
IL Lectro Components Carol Stream.....800-323-2282
MD Deanco Gaitersburg.....301-948-5444
MA Impact Elec Needham.....617-444-3971
MA EPC Elect Canis.....617-821-2111
MN Glen Mark Mpls.....612-941-4825
MO Ragon Electronics Independence.....816-254-3410
NJ Deanco Fairfield.....201-575-7960
NY Deanco Ithaca.....607-257-4444
TX Connec/Tek Addison.....214-733-4411
WA Carlyle Tech Sales Seattle.....206-575-6750

SULMAR SYSTEMS ENGINEERING
BOX 530 BELMONT MA 02178.....617-862-6358
D BOTOS EMP 6 ENG 3 \$100-\$250K
SUMMAGRAHICS CORP 777 STATE
ST EXT FAIRFIELD CT 06430
TWX 964348.....203-384-1344
J LIVESAY EMP 450 ENG 45
TX Digital Products Houston.....713-461-4487

DISTRIBUTORS
AZ Peripherals Inc Phoenix.....602-242-7800
CA N Burns Sunnyvale.....408-773-0880
CO Davis Assoc Littleton.....303-795-1400
IL Ad-Tech Park Ridge.....312-692-7320
MA J Lloyd Woburn.....617-933-4216
MO Digital Systems Ft Chester.....816-765-3337
NY Radiation Elec Port Chester.....914-937-2300
OH W C Koepf Assoc Chagrin Falls.....216-247-5129
TX Cospec Houston.....713-461-4487
FR ATELCO Scarborough ON.....416-497-2208

SUMMIT CAD CORP 5222 FM1960 W102
HOUSTON TX 77069 TWX 790036.....713-440-1468
J PAGE EMP 75 ENG 7 OVER \$10,000K

SUMMIT ELECTRONICS INC
855 E COLLINS BLVD RICHARDSON
TX 75081.....800-645-2074
S MOLE EMP 100 ENG 10
AL Mackay Smith & Assoc.....205-539-8000
AZ Harris & Croy.....602-951-9121
CA Sourceconics.....408-773-1931
GA Mackay Smith & Assoc.....404-449-7444
IL Kingston Components.....312-359-7990
IN Wilson Tech Sales.....317-298-3345
MD Robert Electronic Sales.....301-995-1900
MA R F Duffy.....617-848-3550
MN Electro Serv.....612-338-3475
MO C-Tron Inc.....913-829-0073
NY Mamula Sales.....316-394-5560
NY T & K Sales.....516-724-3456
NC Mackay Smith & Assoc.....704-372-1688
OH Arthur Baier Corp.....216-461-6161
OR Electronic Marketing Group.....206-882-0962
PA Arthur Baier Corp.....412-364-3058
TX Barry Sales Inc.....214-234-0255

DISTRIBUTORS
CA KEA Electronics Hayward.....415-887-2900
TX OSC Dallas.....214-247-0052
UT Bell Industries.....801-972-6969

SUNBANK ELECTRONICS INC
1740 COMMERCE WAY PASO ROBLES
CA 93446 TWX 910-351-5805.....805-238-2840
D CONNOLLY EMP 250 ENG 5
AL H & H Mktg Atlanta.....404-296-9830
AZ System Sales of AZ Tempe.....602-829-9338
CA Par Marketing Mission Viejo.....714-768-6021
CA PenMark Sales Santa Clara.....408-980-1303
CO Nelligan Co Englewood.....303-761-2121

CT Underwood Sales Wethersfield.....203-563-3046
FL Gugel-Tuttle Assoc Altamonte
Springs.....305-788-0845
GA H & H Mktg Stone Mtn.....404-296-9830
IN Denton Marketing Fort Wayne.....219-627-5515
IA Thunderbird Wichita.....316-684-3941
KS Thunderbird Leawood.....913-642-7220
MD Mills-Brown Baltimore.....301-752-5366
MA Underwood Sales Lowell.....617-256-8191
MI Berberich Assoc Dayton.....513-433-0342
MN Hell's T.E.M.I. Bloomington.....612-941-8555
MO Thunderbird St Louis.....314-567-6488
NJ Mills-Brown Haddonfield.....609-429-1005
NY T A Adamo Sales Pompton.....201-835-5344
NY Alan Lupton Assoc Rochester.....716-482-7700
OH Stegman-Blaine Mktg Vandalia.....513-890-7975
TX Space Electronics Irving.....214-251-3636
WA Comtec Bellevue.....206-453-1188

DISTRIBUTORS
AZ Time Elect Tempe.....602-967-2000
CA Powell Elctns San Jose.....408-943-9020
CA Time Elect Torrance.....213-320-0880
FL Time Elect Ft Lauderdale.....305-974-4800
GA Electro Air Atlanta.....404-351-3545
MD Powell Elctns Columbia.....301-621-4070
MA Time Elect Woburn.....617-935-8080
NJ BTC Elect Components Old Bridge.....800-526-2828
NJ Powell Elctns Englewood.....201-894-0800
NY Time Electronics Hauppauge.....516-273-0100
OH Electro-Line Dayton.....513-461-5683
PA Powell Electronics Philadelphia.....215-365-1900
PA Time Elect Broomall.....215-359-1207
TX Powell Elctns Irving.....214-258-6841

SUNDSTRAND DATA CONTROL INC
BOX 97001 REDMOND WA
98073-9701 TWX 910-449-2860.....206-885-3711
J KEMPEN EMP 1600 ENG 200
CA Sundstrand L A.....213-670-0231
CT Sundstrand Glastonbury.....203-633-3597
FL Sundstrand Miami.....305-592-1923
MO Sundstrand St Louis.....314-576-4480
NY Sundstrand Elmont.....516-285-7855
OH Sundstrand Dayton.....513-461-3232
TX Sundstrand Arlington.....817-640-1834
VA Sundstrand Arlington.....703-276-1626
WA Sundstrand Bellevue.....206-453-1393

SUN ELECTRONIC SYSTEMS INC
1601 NW 38 AVE FT LAUDERDALE
FL 33311.....305-587-5577
K CRONEY EMP 15 ENG 2 \$500-\$1,000K
ADV PG 86
CA Nichols & Assoc San Jose.....408-294-2077
IL Lee Associates Chicago.....312-545-7324
MD Brimberg Sales Inc Wheaton.....301-946-2670
MA Leo C Pelkus Inc Wellesley Hills.....617-235-8040

SUN MICROSYSTEMS INC 2550
GARCIA AVE MTN VIEW CA 94043
TWX 469327.....415-960-1300
EMP 1200 ENG 160

SUNNE CONTROLS DIV PECO INC
4707 SE 17 ST PORTLAND
OR 97202 TWX 910-464-5066.....503-233-6401
H TAYLOR EMP 300 ENG 6 OVER \$10,000K
MN Sunne Controls Bloomington.....612-881-1393
PA Sunne Controls Harrisburg.....717-652-7599

SUNNEX INC 87 CRESCENT RD
NEEDHAM MA 02194 TWX 92-2547.....617-444-4730
EMP 12 ENG 1 \$1,000-\$2,500K

SUNRISE ELECTRONICS INC
524 S VERMONT AVE GLENDORA
CA 91740 TWX 910-584-3847.....818-914-1926
EMP 15 ENG 4 \$1,000-\$2,500K

AZ Odyssey 1 Phoenix.....602-246-8846
CA Reptronics San Jose.....408-947-0770
CA Basic Systems Corp Inglewood.....213-673-4300
CA Basic Systems Corp San Diego.....619-268-8000
CO Odyssey 1 Castle Rock.....303-688-3555
CT Burton Forrester Assoc Hamden.....203-248-4380
FL Teespec Palm Harbor.....813-785-2276
GA Teespec Atlanta.....404-399-6980
IL Berndt Assoc Chicago.....312-283-0713
IN Carter, McCormic & Peirce Indpls.....317-844-4175
MA Burton Forrester Assoc Braintree.....617-848-7234
MI Carter, McCormic & Peirce
Farmington Hills.....313-477-7700
MN Electronic Instr Consultants
Eden Prairie.....612-937-9701
MO Engineering Services Co St Louis.....314-997-1515
NH Sunrise Electronics Nashua.....603-888-5095
NJ Rical Assoc Ridgeland.....201-945-5250
NJ Javier Bickel Inc Marlton.....609-596-6900
NY Odyssey 1 Albuquerque.....505-265-6645
NM ABC Elctns Williston Pk.....516-747-6610
NC Teespec Winston Salem.....919-723-8102
OH Carter, McCormic & Peirce
Cleveland.....216-779-5100
OK Genzel Sales & Assoc Broken
Arrow.....918-258-8656
PA Carter, McCormic & Peirce
Pittsburgh.....412-372-4415
TN Teespec Morristown.....615-587-0980
TX Abcor Inc Dallas.....214-231-8977
WA DL Assoc Renton.....206-235-7042
WI Berndt Assoc Milwaukee.....414-545-8400

SUNSHINE SEMICONDUCTOR INC
2727 NEWPORT BL W NEWPORT
BEACH CA 92663.....714-675-6171
AZ Howard Eng Assoc Phoenix.....602-955-3193
CA Eddy Assoc Mtn View.....415-969-6313
CA Solid State Sales Costa Mesa.....714-650-8414
FL D J Ellis & Assoc Maitland.....305-645-1101
IL Coombs Assoc Arlington Hts.....312-439-9880

MN Bill Deming Assoc Mpls.....612-888-5000
PA Electro Comp Sales Bala Cynwyd.....215-667-9360

SUPERCON INC 830 BOSTON TPK
SHREWSBURY MA 01545.....617-842-0174
J WONG

SUPERCOOL US INC BOX 9066
SAN RAFAEL CA 94912
TWX 171 463.....415-459-3777
U MOREN

SUPERIOR CARBON PRODUCTS INC
9115 GEORGE AVE CLEVELAND
OH 44105.....216-883-4880
P KLING EMP 110 ENG 3

SUPERIOR ELECTRIC CO THE
383 MIDDLE ST BRISTOL
CT 06010 TWX 710-454-0682.....203-582-9561
H LORENSON EMP 1000 ENG 40 OVER \$10,000K
ADV PGS 284,290,390,433,460,501

AZ Holder Hauer Inc Phoenix.....602-242-4025
CA Superior Elec Carson.....213-830-7750
CA Superior Elec Santa Clara.....408-748-7772
CO Wm J Purdy Co Denver.....303-777-1411
FL G F Bohman Assoc Apopka.....305-886-1882
FL G F Bohman Assoc Ft Lauderdale.....305-979-0008
GA Skor Inc Doraville.....404-395-9641
HI B V Wittenberg Co Honolulu.....808-833-1602
IL Superior Elec Glen Ellyn.....312-858-2960
IA SPS Assoc Ltd Des Moines.....515-225-0607
MI Superior Elec Brighton.....313-229-2381
MN Engineering Prods Assoc Edina.....612-835-9022
MS Doby Assoc Jackson.....601-981-1138
MO Forristal-Young Sales Co KC.....816-358-6771
MO Forristal-Young Sales Co
St Louis.....314-968-9975
NY Superior Elec Smithtown.....516-361-9177
NY Ross Equipment Rochester.....716-271-5660
NY Ossman Instruments E Syracuse.....315-437-7052
NC Heritage Electl Sales
Kernersville.....919-996-4374
OH EQS Systems Chesterland.....216-729-2222
OR Electronic Sources Tigard.....503-684-0040
TX Superior Elec Carrollton.....214-492-8675
TX B & R Elctn Sales Corp Plano.....214-985-0028
WA Superior Elec Issaquah.....206-392-8559
WA Electronic Sources Bellevue.....206-451-3500
FR Superior Elec Co Ltd Toronto.....416-255-2318
FR Superior Elec GMBH Frankfurt Main
Superior Elec Eng Services.....20971
FR Superior Elec Nederland
B V Harlow Essex.....070-679590
B V The Hague.....070-679590

SUPERIOR FLUX & MFG CO
95 ALPHA PK CLEVELAND
OH 44143.....216-461-3315
Y BASKIN EMP 8 ENG 2 \$500-\$1,000K

DISTRIBUTORS
AZ Scottsdale Tool & Supply Phoenix.....602-273-2776
CA Com-Kyl Sunnyvale.....408-734-9660
CA Wassco El Segundo.....213-640-1060
IL Ames Metal Chicago.....312-523-3230
OR Murphy Indust Sply Portland.....503-620-8680
VA State Elect Martinsville.....703-638-2327
WI Acro Sales Menominee Falls.....414-781-8940

SUPERIOR TECHNICAL CERAMICS CORP
BOX 1028 ST ALBANS VT 05478.....802-527-7726
J LININGER EMP 60 ENG 1 \$2,500-\$5,000K
ADV PG 81

ME Fred Sholler Assoc Goding
Rd Lebanon.....207-457-1076
NJ Harry Thaw Sales Co 75
Brooklake Florham Park.....201-992-2711

SUPERIOR TUBE CO BOX 191
NORRISTOWN PA 19040
TWX 510-660-6410.....215-489-5200
R YEATON EMP 628 ENG 10

SUPERITE GEAR & INSTRUMENT CORP
66 ENTER LA HAUPPAUGE
NY 11787.....516-582-9080
G MACDONALD EMP 25 ENG 2 \$500-\$1,000K

SUPERTEX INC 1225 BORDEAUX
BOX 3607 SUNNYVALE CA
94088-3607 TWX 6839143.....408-744-0100
C BERGHOFF EMP 250 ENG 75 OVER \$10,000K

AL Macro Mktg Huntsville.....205-883-9630
AZ SMS & Assoc Scottsdale.....602-998-0831
CA Custom Technology Sales San Jose.....408-225-9901
CA Orion Sales Glendale.....818-240-3151
CO Elcom Denver.....303-337-2300
CT Ed Glass Assoc Englewood
Cliffs NJ.....201-592-0200
FL Dyne-A-Mark Corp Ft Lauderdale.....305-771-6501
GA Macro Mktg Norcross.....404-662-5580
IL Janus Corp Itasca.....312-250-9650
IN Technical Rep Inc Columbus.....812-367-9226
KS Advanced Tech Sales Overland Pk.....913-642-6675
MD Delta III Assoc Columbia.....301-730-4700
MA Mill-Bern Assoc Burlington.....617-273-1313
MI SAI Mktg Brighton.....313-227-1786
MN Smiley-Scott Assoc Bloomington.....612-888-5551
MO Advanced Tech Sales St Louis.....314-878-2921
NJ Calita Hauppauge NY.....516-582-5432
NM SMS & Assoc Albuquerque.....505-883-9765
NY Gen-Tech Elect Sales Liverpool.....315-451-3480
OH Omega Sales Centerville.....513-434-5507
OR Electronic Comp Sales Tigard.....503-245-2342
PA Delta Tech Sales Northham.....215-443-5503
TX T L Mktg Dallas.....214-357-1752
UT Elcom Salt Lake City.....801-532-7940
VA Delta III Assoc Midlothain.....804-379-1816

WA Electronic Comp Sales Mercer
Island.....206-232-9301
WI Janus Inc Milwaukee.....414-476-9104

SUPPORT SYSTEMS INTL CABLES
& ACCESS DIV 150 S SECOND ST
RICHMOND CA 94804
TWX 910-382-8130.....415-234-9090
S ELDER EMP 100 ENG 7 \$5,000-\$10,000
IL Support Sys Intl Corp Chicago.....312-786-1044
WA Computer Support Resources
Seattle.....206-285-8792

DISTRIBUTORS
CA Henderson Communications Irvine.....714-552-0166
CA Jacobson & Assoc Newark.....415-791-2336

**SURCON ASSOC INC 305 WISCONSIN
AVE OCEANSIDE CA 92054.....619-722-6162**
**D GORDON EMP 2 ENG 2 \$500-\$1,000K
ADV PG 75**

SURGE ELECTRONICS INC BOX 59220
CHICAGO IL 60659.....312-761-0403
J BOGIE EMP 15 ENG 2

SURGEONICS LTD 344 MAIN ST
MT KISCO NY 10549.....914-241-3203
C DIPIETRO EMP 10 ENG 2 \$1,000-\$2,500K

SWIFT & SONS INC M BOX
150 10 LOVE LA HARTFORD
CT 06141.....203-522-1181
A VAN VLACK EMP 200
CA M Swift & Sons Inc Glendale.....245-7181
MO M Swift & Sons Inc Maryland Hts.....434-8004
FR M Swift & Sons Can Ltd
Montreal, Que.....WE 2-5541

SWIFT TEXTILE METALIZING CORP
BOX 150 HARTFORD CT 06141
TWX 99257.....203-522-1181
E SMITH EMP 20 ENG 1

SWINTEK ENTERPRISES 587
DIVISION ST CAMPBELL CA 95008
TWX 172-150.....408-378-8091
D HILL EMP 20 ENG 2 \$1,000-\$2,500K

CA Allan Gordon Entprs LA.....213-466-3561
CA Associated Sound Sacramento.....916-443-4773
FL R & H Assoc.....813-442-7506
CA W3 Marketing Doraville.....404-938-3008
MO B & W Communications St Louis.....314-878-6117
NY Goodman Assoc Oswego.....315-343-5739
NY Andrews Audio Consultants
New York.....212-674-6934
NY Video Components Spring Valley.....914-356-3700
PA Pass Assoc Langhorne.....215-757-6100
TX Peregrine Southwest Reps Houston.....713-772-6765
FR Cinequip Toronto ON.....416-920-5424
FR Commercial Electronics
Vancouver BC.....604-669-5525

DISTRIBUTORS
AZ Stage Sound Phoenix.....602-275-6060
CA A-1 Audio Hollywood.....213-465-1101
CA Acvo Media Los Angeles.....213-410-4141
CA Cinema Prod LA.....213-478-0811
CA Fox Corp Inc San Jose.....408-293-7006
CO Film Video Denver.....303-778-8616
FL Gray Communications Tampa.....813-886-1411
IL Ancha Elect Elk Grove.....312-437-7712
IL Swider Ski Elk Grove.....312-364-1900
MD RTZ Av Camera Beltsville.....212-719-5800
NY Aitel Sound New York.....414-356-3700
OH Britte Lites Columbus.....614-272-1404
OK Ford Audio & Acoustics Okla City.....405-946-9966
PA Tek Com Philadelphia.....215-627-6700
TX Audio Specialty Co Dallas.....214-239-2230
FR Commercial Ect Ontario.....416-920-5424

SWISS CONTROLS INC 2603
E BARKER BOX 567 MICHIGAN CITY
IN 46360.....219-872-5544
EMP 60 ENG 3 \$2,500-\$5,000K

CA Hall Associates Glendale.....213-956-1626
MI Riley-Cotter Sales Birmingham.....313-644-0161
MN D D Harris Minneapolis.....612-333-7327

DISTRIBUTORS
IL Mohawk Mfg & Supply Chicago.....312-647-9350

SWISS JEWEL CO LAFAYETTE BLDG
PHILADELPHIA PA 19106
TWX 831-368.....215-925-2867
P STEEL JR EMP 4 ENG 1

SWITCHCRAFT INC 5555 N
ELSTON AVE CHICAGO IL 60630
TWX 910-221-5199.....312-792-2700
K BANDOLIK EMP 1100 ENG 50 OVER \$10,000K

SWITCHING SYSTEMS INTERNATIONAL
1827 N CASE ST ORANGE
CA 92665 TWX 714-921-0671.....714-921-1153
C EDMAN EMP 30 ENG 1 \$5,000-\$10,000K

SWS SILICONES CORP 3301
SUTTON RD ADRIAN MI
49221-9397 TWX 510-450-2700.....517-263-5711
B BREIDER EMP 400 ENG 100

CA L J Stone San Francisco.....415-544-9314
GA J Cannon Atlanta.....404-952-1775
IL B Breider Oak Brook.....312-691-4350
MI M Myers Adrian.....517-263-5711
NJ J Whaler Edison.....201-549-5911

SYCON-WESTON DIV SYCON CORP
959 CHENEY AVE MARION
OH 43302.....614-382-5771
EMP 50 ENG 4

SYLVANIA CONTROL DEVICES RTE 35
STANDISH ME 04084.....207-642-4535
J DOUGHERTY EMP 1000 ENG 35 OVER \$10,000K

MI Sylvania Dearborn.....313-582-8754
OH Sylvania Dayton.....513-223-6227

**SYLVANIA MINIATURE LIGHTING
W MAIN ST HILLSBORO OH 03244.....603-464-5533**
TWX 710-366-0387
**J DONELAN EMP 350 ENG 6 OVER \$10,000K
ADV PGS 223,238**

MI Sylvania 10800 Ford Rd Dearborn.....313-582-8754

SYMBOL TECHNOLOGIES INC
1101 LAKELAND AVE BOHEMIA
NY 11716 TWX 6711519.....516-563-2400
R FISHER EMP 160

SYMMETRIC COMPUTER SYSTEMS
1620 OAKLAND RD-D200 SAN JOSE
CA 95131.....408-279-0700
J HERRIOT EMP 10-4 \$500-\$1,000K

CA Western Scientific Mktg
San Diego.....619-565-6699
NY TRAC Assoc Hicksville.....516-933-6020

SYM-TEK SYSTEMS INC 3912
CALLE FORTUNADA SAN DIEGO
CA 92123 TWX 249036.....619-569-6800
G WHITLOCK EMP 330 ENG 40 OVER \$10,000K

SYMTRON CORP 2415 E CHARLESTON
RD MT VIEW CA 94043
TWX 910-379-5002.....415-965-4500
J PORTER EMP 250 ENG 6

SYNEKTRON CORP 12000 SW
GARDEN PL PORTLAND OR 97223
TWX 517441.....503-684-3090
M LOPEZ

CA Thorson West Mtn View.....415-964-9300
CO Thorson Rocky Mtn Englewood.....303-779-0666

SYNERTEK INC 3001 STENDER
WAY M/S 59D SANTA CLARA
CA 95054 TWX 910-338-0135.....408-988-5600
D KONRAD

SYNTHANE-TAYLOR CORP BOX O OAKS
PA 19456 TWX 846-323.....215-666-0300
EMP 400 ENG 32 OVER \$10,000K

CA Synthane-Taylor Los Angeles.....213-966-7461
CA Synthane-Taylor San Francisco.....415-591-8929
IL Synthane-Taylor Des Plaines.....312-699-6080
MI Synthane-Taylor Detroit.....313-632-5403
MO Synthane-Taylor St Louis.....314-721-1300
NY Synthane-Taylor Rochester.....716-586-0413
PA Synthane-Taylor Valley Forge.....215-666-0300
TX Synthane-Taylor Dallas.....214-231-9939
WI Synthane-Taylor Milwaukee.....312-699-6080
FR Synthane-Taylor Agincourt Ont.....416-293-4181
FR M Anderson Co Hato Rey PR.....809-751-2026

SYNTHATRON CORP 50 INTERVALE
BOX 145 PARSIPPANY NJ 07054
TWX 219702.....201-335-5000
G DIGIOVINE EMP 30 ENG 5 \$5,000-\$10,000K

SYNTRONIC INSTRUMENTS INC
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TN	Centrio Inc Memphis.....	901-357-1261
TX	Central Eng & Supp Dallas.....	214-741-5247
UT	Priz Co Sandy.....	801-571-7311
WI	GWS Supply Appleton.....	414-739-6066
TAYLOR-WINFIELD CORP 1052 MAHONING AVE NW WARREN OH 44482 TWX 098-2433.....		
	T ORWIG EMP 300 ENG 40 OVER \$10,000K	216-399-8861
CA	Denton & Anderson Co Monrovia.....	818-359-9304
CO	Moncktons Machine Tools Denver.....	303-571-4933

FL	Denton & Anderson Co Jacksonville.....	904-721-1451
IL	Denton & Anderson Co Westchester.....	312-562-3903
MI	Denton & Anderson Co Troy.....	313-583-4270
OH	Denton & Anderson Co Cleveland.....	216-831-2010
PA	Denton & Anderson Co Levittown.....	215-736-8040
TX	Denton & Anderson Co Garland.....	214-270-7635
T-BAR INC 141 DANBURY RD WILTON CT 06897 TWX 710-479-3216.....		
	D DAHM EMP 550 ENG 50 OVER \$10,000K	203-834-8227
CA	Van Gott & Assoc Arcadia.....	818-445-9728
CA	Horne Electro Sales Palo Alto.....	415-494-6777
FL	Tech-Rep Assoc Clearwater.....	813-530-1619
GA	CSR Electronics Dunwoody.....	404-396-3720
MD	Sonkin Gaithersburg.....	301-589-9040
NY	Bonkin Assoc Yonkers.....	914-968-8282
NC	CSR Electronics Raleigh.....	919-878-9200
TX	McCoy Assoc Richardson.....	214-238-1017
FR	J G Weiss Co Ltd St Laurent PQ.....	514-337-5022
DISTRIBUTORS		
IL	Newark Elect Chicago.....	312-638-4411
MA	Sager Elec Sply Hingham.....	617-749-6700
TCL INC 41829 ALBRAE ST FREMONT CA 94538.....		
	EMP 55 ENG 5.....	415-657-3800
TDJ CO 1154 MORENA BLVD SAN DIEGO CA 92110.....		
		619-276-5920
TDK CORP 13-1, 1-CHOME NIHONBASHI CHUO-KU TOKYO JAPAN TX J24270.....		
	M KURIHARA EMP 12,520 ENG 3,000 OVER \$10,000K ADV PGS 64,66,67,74,83,100,101,158, 189,190,249,252,253,332,427,471	03-278-5111
AL	TDK Corp of America Huntsville.....	205-539-4551
CA	TDK Corp of America Torrance.....	213-539-6631
CA	TDK Corp of America San Jose.....	408-435-8565
IL	TDK Corp of America Skokie.....	312-679-8200
IN	TDK Corp of America Indpls.....	317-872-0370
MI	TDK Corp of America Southfield.....	313-353-9393
NY	TDK Corp of America Port Washington.....	516-625-0100
NC	TDK Corp of America Greensboro.....	919-292-0012
TX	TDK Corp of America Irving.....	
DISTRIBUTORS		
ID	Keppo Inc Flushing.....	718-461-7000
NJ	MH & W Intl Corp Mahwah.....	201-891-8800
TEALE MACHINE CO INC BOX 936 ROCHESTER NY 14603.....		
	TXW 510-253-2344.....	716-244-6700
M WHITNEY EMP 45 ENG 2 \$1,000-\$2,500K		
CA	KCE Corp San Diego.....	213-990-0511
CA	Paul Oneal Assoc Corte Madera.....	415-924-1691
GA	H M Walton Co Atlanta.....	404-634-5402
IA	Scherer Polk City.....	515-964-1746
KY	G W Thelen Co Fort Mitchell.....	606-341-8181
MI	F L Neward & Co Detroit.....	537-2890
NH	J M Murphy & Co Hampstead.....	603-328-5400
NJ	Affiliated Sales Inc Edison.....	201-589-8113
NY	A J Murphy Co Inc E Syracuse.....	468-1365
TN	DRF Indus Sales Clarksville.....	615-645-9465
TX	Wells & Co Dallas.....	214-369-5936
WI	Joys Co Milwaukee.....	414-352-2370
TEAPO ELECTRONIC CORP OF AMERICA 6725-C JIMMY CARTER BLVD NORCROSS GA 30071 TWX 4611052.....		
	S WALLACE EMP 1100 ENG 100 OVER \$10,000K ADV PGS 72,352	404-449-0034
AZ	More Sales Phoenix.....	602-265-8291
CA	Tegni-Rep Assoc Sun Valley.....	818-768-4223
CA	South Bay Sales Fremont.....	415-659-9500
CO	Protronics Englewood.....	303-781-6050
FL	SRT Marketing Tampa.....	813-884-4805
FL	SRT Marketing Winter Springs.....	305-699-0505
GA	CSR Elctns Atlanta.....	404-396-3720
IL	Gaertner & Assoc Arlington Hts.....	312-593-2332
IN	Gaertner & Assoc Indpls.....	317-842-0373
MA	Bay Colony Reps Westboro.....	617-870-1930
MI	Inter-Corn Grand Blanc.....	313-695-0666
MN	Northport Engineering S St Paul.....	612-457-8000
MO	Acorn Electronics St Jacob IL.....	618-644-3600
NJ	JIC Assoc South Plainfield.....	201-753-2270
NC	Wallace Electronic Sales Kernersville.....	800-334-3518
OH	Inter-Corn Grand Blanc.....	313-695-0666
TX	Swearingen Sales Austin.....	512-346-8901
TX	Swearingen Sales Austin.....	
DISTRIBUTORS		
AZ	Electronic Dist Phoenix.....	602-955-8303
CA	South Bay Electronics Fremont.....	415-656-7700
CA	Electronic City Burbank.....	818-842-5275
CA	Marvac Costa Mesa.....	714-540-3280
CA	R-Vac El Toro.....	714-566-1210
FL	Walder Electronics Miami.....	305-379-4794
GA	Prehier Electronics Atlanta.....	404-447-5540
IL	Prehier Electronics Chicago.....	312-384-6100
MA	Interface Elect Corp Hopkinton.....	617-435-6858
MI	Prehier Electronics Farmington Hills.....	313-473-7200
MN	Prehier Electronics Bloomington.....	612-854-4106
NV	Hurley's Electronics Las Vegas.....	702-384-5664
OH	Prehier Electronics Middleburg Hts.....	216-243-5510
TX	Tinkertronics Inc Austin.....	512-926-4420
TECCOR SEMICONDUCTORS 1801 HURD DR IRVING TX 75062 TWX 910-860-5068.....		
	EMP 700 ENG 15.....	214-252-7651

TECDIA INC 2672 BAYSHORE PKWY 702 MOUNTAIN VIEW CA 94043.....		
	A LIGOURI ADV PG 68.....	415-967-2828
TECH-ETCH INC 45 ALDRIN RD PLYMOUTH MA 02360.....		
	P THOMAS EMP 182 ENG 18 \$2,500-\$5,000K	617-747-0300
TECH LABORATORIES INC BERGEN & EDSSAL BLVDS PALISADES PARK NJ 07650.....		
	A KONRAD EMP 30 ENG 4 \$1,000-\$2,500K ADV PG 455	201-944-2221
CA	Mollard Marketing 3350 Scott Bl Santa Clara.....	408-727-2050
CA	C & W Comp Sales Box 3493 Granada Hills.....	213-368-4032
CT	NBS Assoc Main St New Preston.....	203-868-0501
GA	Grady Duckett Sales Box 29067 Atlanta.....	404-451-3529
IL	Crimson Eng Co Box 286 Glenview.....	312-470-0024
KS	Midtec Assoc 7702 Mize De Soto.....	913-441-6565
MI	Norwood Scroggs Co 2221 Arbor Hills Rd Jackson.....	517-750-1170
MN	Quantum Sales 7710 Computer Av Mnpls.....	612-831-8583
NJ	Bob Cameron Inc 99 Hampshire Hill Upper Saddle River.....	201-825-1304
NJ	Gray Assoc 8 E Mt Vernon Av Haddonfield.....	609-429-5300
NY	Net Sales 1245 Marsh Rd Pittsford.....	716-467-4538
NY	L K Haner Assoc Box 463 Huntington Sta.....	516-462-5185
OH	Patco & Assoc Box 15220 Cincinnati.....	513-761-5500
PA	Waggoner-Verhill Assoc 3550 Laketon Rd Pittsburgh.....	412-241-5202
TX	Southwest Elect Ind 9226 Markville Dallas.....	214-690-9881
WA	SPS Elctns Box 22315 Seattle.....	206-323-4140
FR	Solid State Engr Box 355 Sta NDG Montreal.....	514-481-3313
TECHMAR CORP 2232 S COTNER LOS ANGELES CA 90064.....		
	T COUPER EMP 12 \$500-\$1,000K	213-478-0046
TECHNAR INC 205 N 2 AVE ARCADIA CA 91006.....		
	G DOWNS EMP 150 ENG 14 \$5,000-\$10,000K	818-447-1187
TECHNICAL ARTS CORP 15660 NE 36 ST REDMOND WA 98052.....		
	E RIZK EMP 22 ENG 12 \$500-\$1,000K	206-885-1185
TECHNICAL COMMUNICATIONS CORP 100 DOMINO DR CONCORD MA 01742 TWX 923407.....		
	J MCCALMONT EMP 85 ENG 10 \$5,000-\$10,000K	617-862-6035
TECHNICAL DEVICES CO 560 ALASKA AVE TORRANCE CA 90503 TWX 510-600-2153.....		
	C NUSSMAN EMP 40 ENG 2 \$1,000-\$2,500K	213-618-8437
TECHNICAL MATERIALS INC 5 WELLINGTON RD LINCOLN RI 02865 TWX 710-384-0600.....		
	P SHAW EMP 250 ENG 6 OVER \$10,000K	401-333-1700
CA	E Jordan Brookes Co LA.....	213-723-8431
CA	E Jordan Brookes Co Santa Clara.....	408-988-1201
IL	Technical Materials Inc Elmhurst.....	312-832-1263
IN	Larry Woodling Co Carmel.....	317-844-7365
TECHNICAL RESEARCH & MFG INC GRENIER FIELD RFD 10 MANCHESTER NH 03103 TWX 710-220-6765.....		
	A MARIN	603-668-0210
TECHNICAL SPECIALTIES CO INC 400 AIRPORT EXEC PARK SPRING VALLEY NY 10977.....		
	S HADER EMP 60 ENG 2 \$1,000-\$2,500K	914-425-9700
TECHNICRAFT DIV TECH SYSTEMS CORP 401 WATERTOWN RD THOMASTON CT 06787 TWX 710-475-0537.....		
	R JACQUES EMP 300 ENG 13	203-283-5801
TECHNIPOWER A PENRIL CO COMMERCE DR BOX 222 DANBURY CT 06810 TWX 710-456-9280.....		
	L CARBONE EMP 140 ENG 6 \$2,500-\$5,000K ADV PG 348	203-748-7001
CA	J Matteson Thousand Oaks.....	805-493-2244
FL	EIR Inc Maitland.....	810-853-9213
MA	J Cassettina Boston.....	617-443-7347
MN	Electromec Sales Burnsville.....	612-894-8200
MO	Rothkopf & Assoc St Louis.....	314-961-4485
PA	Ar-Jay Technical Assoc Pennsauken.....	609-663-4260
TX	Scientific Sales Co Richardson.....	214-231-6541
FR	Vitrix Ltd Guelph ON.....	519-836-1480
DISTRIBUTORS		
CA	N A D'Arcy Co Oakland.....	415-638-7773
CA	Cal-State Elect LA.....	213-933-8187
CA	Yale Radio Hollywood.....	213-465-3186
CA	Action Elect Santa Ana.....	714-547-5169
IL	Delta Tech Prods Chicago.....	312-478-1134
MA	Abbott Elect N Woburn.....	617-935-2040
MI	Industrial Temp Control Dearborn.....	313-278-2210
MN	Gopher Elect St Paul.....	612-483-3322
MO	Olive Elect St Louis.....	314-426-4500
NY	Midway Ind Elect Farmingdale.....	516-293-6800
NY	Adirondack Radio Sply Albany.....	518-456-0203

NC Jenkins Elec Charlotte..... 704-392-7371
OK Inotek Corp Tulsa..... 918-627-1500
PA PEI/Genesis Phila..... 215-568-7400
TX Inotek Corp Dallas..... 214-243-7000

TECHNITROL INC 1952 E ALLEGHENY
AVE PHILADELPHIA PA 19134
TWX 834-245..... 215-426-9105
G SHILLING EMP 400 ENG 30 OVER \$10,000K

AZ Integrated Sys & Device
Sales Phoenix..... 602-971-6250
CA Wright Assoc San Rafael..... 415-457-9940
CA Detomasi & Grupp Inc Torrance..... 213-327-1775
CA Dixie Tech Mktg Norcross..... 404-447-6832
IL Cudahy Sales Wauconda..... 312-526-2484
IA The Beams Co Des Moines..... 515-255-1148
MD Callas Elctns Baltimore..... 301-744-7711
MA Normell Assoc Newton..... 617-969-5478
NJ Kendon Co Easton, PA..... 215-253-3100
NM Syntech Albuquerque..... 505-268-7951
NY TAC Sales Fairport..... 716-425-1070
NY J Square Mktg Jericho..... 516-935-3200
OH Reironics Galion..... 419-468-4568
TX Electronics Mktg Assoc Houston..... 713-498-8120
WA Gentech Redmond..... 206-881-6456

TECHNO-COMPONENTS CORP
7803 LEMONA AVE VAN NUYS
CA 91405 TWX 910-495-2015..... 818-781-1642
L COHEN EMP 100 ENG 2 \$2,500-\$5,000K

DISTRIBUTORS
CA Passive Components Chatsworth..... 818-341-1745
CA Petell Electronics San Fernando..... 818-365-9841
CA Shelley Ragon Chatsworth..... 818-988-3333
CA SAI Inc Sunnyvale..... 408-720-0750
CA Zuess Components Anaheim..... 714-632-6880
MD Aziech Electronics Columbia..... 301-995-1570
MA TLC Inc Burlington..... 617-273-0140
NY Andco N Syracuse..... 315-699-2650
NY Command Electronics Farmingdale..... 516-293-1212
NY L & S Electronics Valley Stream..... 516-561-2474
NY Jacob Elect Hauppauge..... 516-273-5500
NY Prime Components Ronkonkoma..... 516-737-1730
OH Televox Inc Dayton..... 513-294-4499
TX Patco Supply Ft Worth..... 817-429-8596

TECHNO INC 2101 JERICHO TPK
NEW HYDE PARK NY 11040
TWX 510-223-0642..... 516-328-3300
P THORNTON EMP 30 ENG 6

TECHNOLOGY DYNAMICS INC
91 E CARVER AVE WESTWOOD
NJ 07675..... 201-664-7636
J LOGAN EMP 40 ENG 7 \$1,000-\$2,500K

TECHNOLOGY 80 INC 658 MENDELSON
AVE N MINNEAPOLIS MN 55427..... 612-542-9545
J BURKETT

AL FM Assoc Huntsville..... 205-882-0689
AZ Trembley Assoc Phoenix..... 602-927-2058
CA Advanced Digital Group LA..... 213-598-9645
CA Manco Santa Clara..... 408-496-6611
CO Trembley Assoc Denver..... 303-233-9544
FL FM Assoc Orlando..... 305-851-5710
GA FM Assoc Atlanta..... 404-451-2293
IL Dytac Central Arlington..... 312-394-3380
IN Wilson Technical Sales Indpls..... 317-298-3345
KS Dytac South Lenexa..... 913-888-0215
MA Martindale Assoc North Reading..... 617-942-0514
MI EQS Systems Detroit..... 313-961-3042
MN JR Assoc Mpls..... 612-546-4110
MO Dytac South St Louis..... 314-569-2990
NJ Trembley Assoc Las Vegas..... 702-739-6816
NV Technimat Englewood..... 201-569-4200
NM Trembley Assoc Albuquerque..... 505-266-8616
NY T-Squared Elec Syracuse..... 315-463-8592
NC FM Assoc Ramseur..... 919-824-2196
OH EQS Systems Cleveland..... 216-729-2222
OR Cascade Data Mktg Portland..... 503-641-9226
PA Multi-Measurements Philadelphia..... 215-675-3082
WA Cascade Data Mktg Seattle..... 206-747-6190
FR Tracac Elect Ottawa PQ..... 613-722-7667
FR Tracac Elect Lachine PQ..... 514-636-8380
FR Tracac Elect Vancouver BC..... 604-984-4141

TECHNOLOGY GLASS DIV 33195
LEWIS AVE UNION CITY CA 94587
TWX 346458..... 415-487-5860
M WILLIAMS EMP 215 ENG 20

TECHNOLOGY MODELING ASSOC INC
445 BURGESS DR MENLO PARK
CA 94025 TWX 4941639..... 415-327-6300
C BLOOM EMP 12 ENG 8

TECHON SYSTEMS INC 1059
E BEDMAR ST CARSON CA 90746
TWX 350328..... 213-603-8888
J KLOCKE EMP 25 ENG 2 \$1,000-\$2,500K

DISTRIBUTORS
AZ K R Anderson Co Tempe..... 602-829-1898
CA K R Anderson Co Sunnyvale..... 408-738-6730
FL Kimco Dist Co Boca Raton..... 305-428-5507
MI Ellsworth Adhesive Sys Woburn..... 617-938-6500
WI Ellsworth Adhesive Systems
Milwaukee..... 800-558-6972
FR Cammda Co Ltd Cobourg ON..... 416-372-0123

TECHRAND CORP OF AMERICA
1261 HOLTON RD MUSKEGON
MI 49445..... 616-744-1663
B GORENFLO EMP 25 ENG 2

TECHRON 1718 W MISHAWAKA RD
ELKHART IN 46517
TWX 810-294-2160..... 219-294-8300
H KING EMP 400 ENG 15 OVER \$10,000K

TECH SYSTEMS CORP PRECISE
POWER DIV 401 WATERTOWN RD
THOMASTON CT 06787
TWX 710-475-0537..... 203-283-5801
A BLUM EMP 300 ENG 13

TECHTROL CYCLOMETRICS INC
815 MARKET ST NEW CUMBERLAND
PA 17070 TWX 510-650-7003..... 717-774-2746
EMP 25 ENG 3 \$5,000-\$10,000K

TECHTRONICS ECOLOGICAL CORP
501 FLUSHING AVE BROOKLYN
NY 11205..... 718-522-3838
C LING EMP 20 ENG 1 \$500-\$1,000K

TEC INC 2727 N FAIRVIEW BOX 5646
TUCSON AZ 85703
TWX 910-952-1377..... 602-792-2230
B HAMILTON EMP 625 ENG 10 OVER \$10,000K

AZ WJM Sales Tucson..... 602-888-4847
CA ETA Orange..... 714-998-9241
CA Savage Assoc San Diego..... 619-457-2644
CT United Components Madison..... 203-245-4810
FL Lobo Mktg Assoc Newport Richey..... 813-848-8578
IL Lancaster Ltd Barrington..... 312-381-6780
IN John Sukup Inc Indpls..... 317-253-5501
MD Mechronic Sales Rockville..... 301-340-2130
MA United Components Norwood..... 617-226-0556
MN Grayden & Flemmer Inc Edina..... 612-941-1120
MO MYA-Midwest Lee Summit..... 616-525-1290
NY Advanced Comps Corp N Syracuse..... 315-699-2671
NY F & F Metro Great Neck..... 516-482-4080
OH Electronic Sales Masters
Beachwood..... 216-831-9555
OR Caruso & Northcutt Beaverton..... 503-646-4973
PA Jacobson Assoc Hatboro..... 215-674-2937
TN Sunbelt Sales Greenville..... 803-877-9088
TX Sunbelt Sales Tait..... 615-425-6164
TX Mech-Tron Mktg Dallas..... 214-343-3786

DISTRIBUTORS
CA Merit Comp Supply Burbank..... 213-849-3016
NY ASAP Elect Mt Vernon..... 914-669-2727
OH RPA Co Dayton..... 513-252-7064

TECKNIT 129 DERMODY ST CRANFORD
NJ 07016 TWX 710-996-5951..... 201-272-5500
J BARBUTO EMP 400 ENG 20 OVER \$10,000K
ADV PG 122

CA Technit Santa Barbara..... 805 963-5811
CA Nova-Tronix Santa Clara..... 408-727-9530
CA C & W Comp Sales Granada Hills..... 213-368-4032
CO Deltron Co Denver..... 303-373-0300
FL Lawrence Assoc Boca Raton..... 305-368-7373
FL EIR Inc Fern Park..... 305-830-9600
GA Dixie Tech Mktg Norcross..... 404-447-6832
IL Enco-Rep Inc Springfield..... 314-423-3835
IL Technology Sales Chicago..... 312-991-6600
MD Mechronics Sales Rockville..... 301-340-2130
MA Com-Sale Needham..... 617-444-8071
MI Lowell-Wendt Mktg Co Livonia..... 313-464-2722
MN REPCO St Paul..... 612-642-2828
MN Electronic Innovators Inc
Eden Prairie..... 612-941-0830
MO Enco-Rep Inc St Louis..... 314-423-3935
NH E M C Sales Hudson..... 603-889-5751
NJ Meridian Enterprises Union..... 201-687-6220
NJ Brady Co North Plainfield..... 201-753-7988
NY R W Mitscher Co Buffalo..... 617-374-0789
OH Jay Enggr Co Dayton..... 513-253-2151
OH McFadden Sales Columbus..... 614-459-1280
TX Scanlon & Co Inc Dallas..... 214-231-4661
WA Quest Marketing Bellevue..... 206-747-9424
FR Norgay Entrps Ltd Toronto ON..... 416-239-3025

TECO CORP BOX A WINNISQUAM
NH 03289..... 603-524-1998
S MURPHY EMP 50 ENG 3 \$1,000-\$2,500K
CA Sara Scien Sales Co Oakland..... 415-934-1331
MA Cummings Assoc Sharon..... 617-784-5600
NJ Mesa Tech Assoc Haddonfield..... 609-429-9531
NY Henry Abbott Assoc Seaford..... 516-781-5256
NY R D Sherman Inc Fayetteville..... 315-637-9861
OH Rockford Controls OH Euclid..... 216-731-5250
VT Twin State Sales Burlington..... 802-658-7868
VA TyTronics Tech Sales Reston..... 703-471-0440

TEC SYSTEMS 830 PROSPER
RD BOX 30 DE PERE WI 54115
TWX 26-3471..... 414-336-5715
C VERHELST EMP 360 ENG 70 OVER \$10,000K

TECTROL INC 39 KODIAK CRES
DOWNSVIEW ON M3J 3E5
TWX 06-217645..... 416-630-8108
F DEBRUYN EMP 280 ENG 10 OVER \$10,000K

TEDEA USA 7800 DEERING AVE
CANAOGA PARK CA 91304
TWX 499-8137..... 818-884-8818
T SMALARZ EMP 10 ENG 1

TEJAS CONTROLS INC 7604
KEMPWOOD DR BOX 55601 HOUSTON
TX 77055 TWX 287851..... 713-956-4800
G DOSS EMP 140 ENG 47 OVER \$10,000K
GA Equity Utility Service
Co Marietta..... 404-422-1005
IL Memeco Sales & Service
Elk Grove Vlg..... 312-228-9555
MN Marsh Ltd Minneapolis..... 612-729-9345
NC W R Daniels & Assoc Charlotte..... 704-376-8603
OK Lucas Controls Co Tulsa..... 918-749-6491
TN J Wiley Bowers Chattanooga..... 615-877-3575

TX GEA of Texas Houston..... 713-781-3005

TEKA PRODUCTS INC 45 SALEM ST
PROVIDENCE RI 02907
TWX 710-381-1606..... 401-785-4110
R MONDILLO EMP 80 ENG 10 \$5,000-\$10,000K

TEK-COM CORP 120 CHARCOT AVE
SAN JOSE CA 95131 TWX 27216..... 408-435-9515
B HUNTINGTON EMP 23 ENG 3 \$2,500-\$5,000K

DISTRIBUTORS
CA Allen Edwards & Assoc Torrance..... 213-328-9770
CA Comlink Inc Sacramento..... 916-922-5416
CA Data Communications San Jose..... 408-943-9710
CA DMA Communications Anaheim..... 714-630-9113
CA Leasing Ventures Oakland..... 415-638-1078
IL Data Accessories Dist Hinsdale..... 312-850-7488
MD Automated Digital Sys Rockville..... 301-340-1800
MI Lowry Computer Prod Brighton..... 313-229-7200
NJ Glasgal Communications Northvale..... 201-768-8082
NC J L Highsmith & Co Charlotte..... 704-527-2382
OH Data Processing Sciences Cinn..... 513-961-0776
OH Gerhard & Assoc Columbus..... 614-458-9575
TX Flair Data Systems Dallas..... 214-696-5650
WA Datec Inc Seattle..... 206-575-1470

TEKFORM PRODUCTS DIV GEN
CERAMICS INC GREENWOOD AVE
HASKELL NJ 07420..... 201-839-1600
B CASSIDY EMP 275 ENG 8 OVER \$10,000K

TEKNALON INDUSTRIES INC
480 CLINTON AVE S ROCHESTER
NY 14620..... 716-232-1291
T BAILEY EMP 35 ENG 6 \$500-\$1,000K
CA Paul Onsal & Assoc Corte Madera..... 415-924-1691
CA Van D Gott Assoc Arcadia..... 818-445-9728
IL Chadra-Schilke Assoc Wheaton..... 312-653-8126
MA John Grant Assoc Westford..... 617-652-2279
NY Brandon Assoc Canandaigua..... 716-424-3260
NC Mc Gee Assoc Raleigh..... 919-781-9579

DISTRIBUTORS
CA Alatec Prods No Hollywood..... 213-875-1790
CA Bisco Industries San Jose..... 408-946-8980
CA Bisco Industries Anaheim..... 714-635-0380
CA Arrow Fastners Hayward..... 415-487-2100
FL American Fastner Comps
Casselberry..... 305-831-6630
IL Bisco Industries Franklin Pk..... 312-451-1230
MA Electronic Packaging &
Comps Woburn..... 617-935-0400
MA Mac Bearing Woburn..... 617-933-2110
MA Rush Ind Winchester..... 617-729-5800
NY Merit Fastner Bayshore..... 516-242-1800
PA Cumberland Electric Harrisburg..... 717-233-5883

TEKNECOMP SPA DIV ZINCOLEERE
12 VIA ABATE BERTONE
CAVAGLIA VC ITALY 13042
TWX 200039..... 161-96195
E CORNAGLIOTTI
ADV PG 362

TEKSIL INC BOX 1571 BUTLER
PA 16001 TWX 710-790-4835..... 412-352-4433
N CHRISTENSEN EMP 4 ENG 2 \$100-\$250K

TEKTONE SOUND & SIGNAL MFG INC
1331 S KILLIAN DR LAKE PARK
FL 33403..... 305-844-2383
C MIRA EMP 60 ENG 2 \$1,000-\$2,500K

CA Lichtenauer & Assoc Antioch..... 415-757-1200
CA Westech Mktg Culver City..... 213-870-9286
CO Mountain Reps Denver..... 303-623-0972
IL Majestic Sales Co Chicago..... 312-582-4300
LA Wm B Allen Supply Co New Orleans..... 504-525-8222
MN Universal Agents & Assoc
Burnsville..... 612-894-3660
NY Lee Dan Hauppauge..... 516-231-1414
OH Dardon & Assoc Olmstead Twp..... 216-234-4555
VA Howard Golenpaul & Assoc
Arlington..... 703-525-5899
WA Chuck Olson & Assoc Renton..... 206-271-5416
WI Alarmonics Edina MN..... 612-831-3630
FR Betatron Concord ON..... 416-669-6354
FR Hallwood Agencies Burnaby BC..... 604-299-1266

TEKTRONIX INC BOX 500 D/S Y3-314
BEAVERTON OR 97077
TWX 910-467-8708..... 800-547-6711
EMP 20000 OVER
\$10,000K

AZ Tektronix Inc Huntsville..... 205 881-2912
AL Tektronix Inc Phenix..... 602-268-8861
CA Tektronix Inc Irvine..... 714-556-8080
CA Tektronix Inc Santa Clara..... 408-496-0800
CO Tektronix Inc Englewood..... 303-634-1011
CT Tektronix Inc Milford..... 203-877-1494
FL Tektronix Inc Orlando..... 305-894-3911
GA Tektronix Inc Norcross..... 404-449-4770
HI EMC Corp Honolulu..... 808-836-1138
IL Tektronix Inc Rolling Meadows..... 312-259-7580
IN Tektronix Inc Indpls..... 317-545-2351
KS Tektronix Inc Overland Pk..... 913-341-3344
LA Tektronix Inc Kenner..... 504-466-4445
MD Tektronix Inc Rockville..... 301-948-7151
MA Tektronix Inc Lexington..... 617-861-6800
MI Tektronix Inc Farmington..... 313-478-5200
MN Tektronix Inc St Paul..... 612-484-8571
MO Tektronix Inc Hazelwood..... 314-731-4696
NJ Tektronix Inc Woodbridge..... 201-636-8616
NM Tektronix Inc Albuquerque..... 505-265-5541
NY Tektronix Inc North Syracuse..... 315-455-6661
NY Tektronix Inc Woodbury..... 516-364-9060
NC Tektronix Inc Raleigh..... 919-782-5624
OH Tektronix Inc Middleburg Hts..... 216-243-8500
OK Tektronix Inc Oklahoma City..... 405-848-3361
OR Tektronix Inc Tigard..... 503-620-9100

PA	Tektronix Inc Blue Bell	215-825-6400
TN	Tektronix Inc Knoxville	615-690-6422
TX	Tektronix Inc Irving	214-258-0525
UT	Tektronix Inc SLC	801-486-1091
VA	Tektronix, Inc Newport News	804-874-0099
WA	Tektronix Inc Kent	206-575-0180
FR	Tektronix Canada Ltd Pte Claire PO	514-697-5340
FR	Tektronix Can Ltd Dartmouth N.S.	902-469-9476
FR	Tektronix Can Ltd Ottawa ON	613-225-2850
FR	Tektronix Canada Ltd Burnaby BC	604-438-4321

TEKTRONIX INC CAE SYSTEMS DIV		
5302 BETSY ROSS DR SANTA		
CLARA, CA 95054	408-727-1234	
EMP 400 ENG 150		

TEKTRON MICRO ELECTRONICS INC		
7483-A CANDLEWOOD RD		
LINTHICUM HTS MD 21090	301-850-4200	
A RUBIN EMP 37 ENG 7 \$2,500-\$5,000K		
CA Peninsula Tech	415-965-3636	
CA Relcom	818-991-4221	
MA ESI Holliston	617-429-2493	
NY Gama/Metro Stoney Brook	516-751-2072	

TELATEMP CORP BOX 5160		
FULLERTON CA 92635-0160	714-879-2901	
R DARRINGER EMP 14 ENG 3 \$500-\$1,000K		
MI Michigan Electronics Flint	313-232-6550	

TELAUTOGRAPH CORP 8700		
BELLANCA AVE LOS ANGELES		
CA 90045 TWX 910/328-6117	213-641-3690	
F MAY EMP 400 ENG 8 OVER \$10,000K		
CA Telsatograph Corp San Francisco	415-467-3212	
CO Telsatograph Corp Aurora	303-364-4156	
FL Telsatograph Corp Miami	305-558-1207	
GA Telsatograph Corp Norcross	404-587-2022	
HI Hawkins Audio Engrs Honolulu	808-841-5031	
IL Telsatograph Corp Elk Grove Vlg.	312-228-6868	
LA Telsatograph Corp New Orleans	504-561-6913	
MI Telsatograph Corp Troy	313-524-0223	
MO Telsatograph Corp Maryland Hgts.	314-385-1153	
NJ Telsatograph Corp Clifton	201-772-2740	
NY Telsatograph Corp Great Neck	212-225-3232	
OH Telsatograph Corp Beachwood	216-267-4557	
PA Telsatograph Corp Pittsburgh	412-787-3310	
TX Telsatograph Corp Houston	713-895-0245	
VA Telsatograph Corp Falls Church	202-827-0900	
WA Telsatograph Corp Seattle	206-622-5356	
FR Telsatograph Corp Mississauga ON	416-624-2038	
FR Telsatograph Corp St Laurent PQ	514-331-5481	

TELETYPE TECHNOLOGY INC		
270 E PULASKI RD GREENLAWN		
NY 11740 TWX 510-226-0449	516-423-3232	
D STRICKER EMP 55 ENG 7 \$1,000-\$2,500K		
IL Computer & Sys Sales Schaumburg	312-397-4440	
PA Lynbar Group Huntingdon Valley	215-947-3554	
FR CD Nova Ltd Vancouver BC	604-672-8106	

DISTRIBUTORS		
AL Mid-South Data Birmingham	205-942-2453	
AZ Zeus Dist Phoenix	602-263-6022	
CT T Comm Enterprises Bethel	203-792-9025	
GA Codarum Corp Roswell	404-587-5710	
MA Stark Assoc Sherborn	617-655-1963	
MN On-Line Mnpis	612-888-4444	
NJ Glasgal Communications Northvale	201-768-8082	
NY Data Pages North Caldwell	201-256-8565	
NJ Computer Cable & Prods Farmingdale	516-293-1610	
NY Global Computer Sps Plainview	516-420-0044	
PA Blue Bear Group Pittsburgh	412-372-5530	
VA Solunet Inc Arlington	703-243-2442	
VA Combyte Inc Alexandria	703-750-2443	
WA Nidi Northwest Bellevue	206-746-7970	

TELECOMMUNICATION DEVICES INC		
2320 WISCONSIN AVE DOWNERS		
GROVE IL 60515	312-971-3460	
K PADERA EMP 45 ENG 2		
AZ Clovertron Scottsdale	602-998-1846	
CA Logan Sales Santa Clara	408-496-0660	
FL Southern Elctn Mktg Casselberry	305-695-3334	
IL Momak Sales Downers Grove	312-963-6400	
MA Wayland Engineering Natick	617-655-6080	
MI Gregg Stiles & Assoc Grand Rapids	616-942-0472	
MN Gil Sales St Paul	612-224-9927	
NY Spellman Assoc Manhasset	516-627-3399	
PA RCA Assoc Broomall	214-353-2022	

DISTRIBUTORS		
CA Dunlap Elect Sacramento	916-444-8070	
FL The Battery Bank Orlando	305-295-5714	

TELECOMMUNICATIONS TECHNIQUES		
CORP 444 N FREDERICK AVE		
GAITHERSBURG MD 20877		
TXW 908736	301-258-5011	
EMP 100 ENG 25 OVER \$10,000K		

TELECONSULT INC 2555 M ST		
WASHINGTON DC 20037		
TXW 892794	202-466-3250	
A BANDE EMP 53 ENG 48 \$2,500-\$5,000K		

TELECRAFTERS CORP 999 PLEFFERS		
LA HARRISBURG PA 17109	717-564-8993	
G WACHTMAN EMP 9 ENG 1 \$100-\$250K		

TELECTRO SYSTEMS CORP 96-18		
43RD AVE CORONA NY 11368	212-651-8900	
H SUSSMAN EMP 75 ENG 15 \$1,000-\$2,500K		

TELEDYNE ACOUSTIC RESEARCH		
330 TURNPIKE ST CANTON		
MA 02038 TWX 92-4310	617-769-4200	
R FALKENSTEIN		
CA Damar Indus Chatsworth	213-998-6501	
CA O P Mktg Hayward	415-782-6821	
CO Performance Plus Mktg Aurora	303-671-8900	
CT Marketing Group Simsbury	203-658-2775	
FL L P Hensch Co Miami	305-251-4343	
GA United Mktg Assoc Grayson	404-963-6575	
HI Micro Hawaii Hilo	808-959-9416	
IL Audio Reps Northbrook	312-480-0105	
KS Sound Professionals Shawnee Mission	913-649-6241	
MD Whitman & Assoc Phoenix	301-667-1180	
MI Morton Assoc Southfield	313-352-8292	
MN Marketing Plus St Louis Park	612-928-8090	
NJ Roth Paris Mktg Marlboro	201-780-6580	
NY Bernard Darmstedter Assoc Baldwinsville	315-638-1261	
OH Moore & Assoc Miamisburg	513-433-0762	
TX Advance Mktg Carrollton	214-248-4993	
WA Naeseth/Solaas & Assoc Mercer Island	206-236-0918	

TELEDYNE ANSONIA SOLDERLESS		
CONNECTOR DIV 1 RIVERSIDE DR		
ANSONIA CT 06401 TWX 963408	203-735-9311	
F STUEBBE		
CA Western Components	818-791-9794	
CA David Cox Assoc	415-441-8666	
CO Mikro Sales	303-841-4131	
CT Barton Assoc Glastonbury	203-633-9417	
GA Shaw & Co	404-755-4536	
IL OKC Corp Hinsdale	312-655-0668	
IN Repco Enterprises	317-521-2915	
MI Techrep	313-572-1950	
MS Technical Marketing	601-863-8315	
MO Kattelmann & Co	314-524-8200	
NE Perry Assoc	402-334-5250	
NJ Cambridge Allen	201-464-0203	
NY Lachut Electrical Sales	315-458-6486	
NC Geo Pickett Jr	919-467-7533	
OH Loesch Assoc Cleveland	216-333-0077	
OK OK Electrical Sales	214-243-0831	
OR Olympic Agencies	503-652-2104	
PA Mallon Sales Pennsauken NJ	609-685-2033	
SC Marden Sales	803-881-2931	
TN LDA Sales	901-458-7952	
TX Techna Marketing	713-224-2226	

TELEDYNE AVIONICS BOX 6400		
CHARLOTTESVILLE VA 22906		
TXW 510-587-5469	804-973-3311	
D LANGE EMP 310 ENG 33 \$5,000-\$10,000K		
CA Peninsula Indus El Segundo	772-2841	

TELEDYNE CRYSTALONICS 147		
SHERMAN ST CAMBRIDGE MA 02140		
TXW 710-320-1196	617-491-1670	
B KILGARIFF EMP 180 ENG 25 \$5,000-\$10,000K		

DISTRIBUTORS		
CA Zeus West Anaheim	213-924-0454	
MA Zeus New Eng Lexington	617-863-8800	
NY Zeus Components Port Chester	914-937-7400	
TX Zeus Components Dallas	214-783-7010	

TELEDYNE GEOTECH 3401 SHILOH RD		
GARLAND TX 75041 TWX 732394	214-271-2561	
F KISSINGER EMP 400 ENG 150 OVER \$10,000K		
ADV PG 361		

TELEDYNE-GURLEY 514 FULTON ST		
TROY NY 12181		
TXW 710-443-8156	518-272-6300	
G GORDON \$5,000-\$10,000K		

TELEDYNE HASTINGS-RAYDIST		
BOX 1275 HAMPTON VA 23661		
TXW 710-882-0085	804-723-6531	
J SHIELDS EMP 125 ENG 12		
AZ Williams-Assoc Scottsdale	602-947-4297	
CA Jewett Co N Hollywood	818-789-8103	
CA Far West Eng Sales San Leandro	415-351-6211	
CO Williams-Assoc Commerce City	303-289-5647	
FL Harra Tech Sales Clearwater	813-797-7527	
GA G H Crossley & Assoc Atlanta	404-261-4278	
IL Byron Ellis Assoc Des Plaines	312-298-7626	
KY Fluidaire Co Louisville	502-589-2041	
LA Hahn Sales/Enstocko Baton Rouge	504-926-9310	
MA Industrial Equip & Sales Wellesley	617-431-1490	
MI Anger Assoc Dearborn	313-336-3320	
MN Plant Equip Inc Mnpis	612-559-1066	
MO Adelphi Inc St Louis	314-821-1232	
NJ KLS Assoc Cedar Grove	201-785-4450	
NM Williams-Assoc Albuquerque	505-255-1638	
NY Geo O Miller Co Syracuse	315-455-5748	
OH G H Drysdale & Assoc Cincinnati	317-243-8788	
OK Telstar Instrument Tulsa	818-628-1011	
PA Tyler Griffin Co Paoli	215-644-7710	
TX Mion Inst Sales Co Houston	713-469-1489	
UT Williams-Assoc SLC	801-485-6511	
WA Penryn Inc Seattle	206-782-8879	
FR M R Franceschini Inc Santurce PR	809-725-7080	

TELEDYNE MICROELECTRONICS		
12964 PANAMA ST LOS ANGELES		
CA 90066 TWX 910-343-7436	213-870-9831	
W KENNEDY EMP 1200 ENG 450		

TELEDYNE MICRONETICS 7155		
MISSION GORGE RD SAN DIEGO		
CA 92120 TWX 910-335-2085	619-583-3525	
S AMARILLAS EMP 150 ENG 23		

TELEDYNE MICROWAVE 1290		
TERRA BELLA MTN VIEW CA 94043		
TXW 910-379-6939	415-968-2211	
R ROY EMP 515 ENG 85 OVER \$10,000K		

TELEDYNE PHILBRICK ALLIED		
DRIVE AT RTE 128 DEDHAM		
MA 02026 TWX 710-348-6726	617-329-1600	
D LOYER EMP 300 ENG 22		

TELEDYNE RELAYS 12525 DAPHNE ST		
HAWTHORNE CA 90250		
TXW 910-321-4610	213-777-0077	
T GARLAND		
ADV PG 399		

AL M21 Huntsville	205-830-0498	
AZ Arcam Sales Scottsdale	602-947-5745	
CA Teledyne Relays Saratoga	408-996-9944	
CO Thorson Rocky Mtn Englewood	303-779-0666	
CT Gerald Rosen Co Stratford	203-375-5456	
FL Hutto-Hawkins & Perego		
Pompano Beach	305-971-5750	
Hutto-Hawkins & Perego Maitland	305-831-2474	
FL Hutto-Hawkins & Perego		
Clearwater	813-797-4447	
GA M21 Norcross	404-447-6124	
IL Teledyne Relays Glen Ellyn	312-858-1090	
R F Carlson Co St Louis	314-961-4485	
IN Schillinger Assoc Kokomo	317-452-4057	
IA Stan Clothier Co Cedar Rapids	319-395-0245	
KS C-Tron Inc Olathe	913-829-0073	
MA Gerald Rosen Co Frammingham	617-879-5505	
MN Stan Clothier Co Mnpis	612-944-3456	
NJ Vantage Sales Pennsauken	609-663-6660	
IL Teledyne Relays Cranford	201-272-0020	
NM Reptronix Albuquerque	505-292-1798	
NY I A Hotz Co Syracuse	315-479-6641	
NY Friedman-Smith Elctns Mnt Vernon	914-664-4866	
OH J C Hofstetter Co Dayton	513-296-1010	
OH J C Hofstetter Co Medina	216-241-4880	
PA J C Hofstetter Hickory	412-356-2305	
TX Kruvand Assoc Dallas	214-437-3335	
UT Thorson Rocky Mtn W Valley City	801-973-7969	
WA B & P Assoc 10655 NE 4 St Bellevue	206-454-6571	
A Deskin Sales Montreal PQ	514-331-2860	
FR A Deskin Sales Markham ON	416-475-1412	
FR A Deskin Sales Richmond BC	604-273-4963	
FR A Deskin Sales Ottawa ON	613-729-1099	
FR A Deskin Sales Edmonton AB	403-466-2106	
FR A Deskin Sales Edmontan MB	403-466-2106	

DISTRIBUTORS		
AL	Pioneer Elect Huntsville	205-837-9300
AZ	Wyle Phoenix	602-249-2232
AZ	Time AZ Tempe	602-967-2000
CA	Wyle El Segundo	213-322-8100
CA	Wyle San Diego	619-565-9171
CA	Wyle Irvine	714-863-9953
CA	Wyle Santa Clara	408-727-2500
CA	Time Anaheim	714-937-0911
CA	Time Nor Cal Sunnyvale	408-734-9888
CA	Time West Torrance	213-320-0880
CA	Time San Diego	619-586-1331
CO	Wyle Thornton	303-457-9953
CO	Time Englewood	303-850-7701
CT	Milgray/CT Orange	203-795-0711
CT	Time CT Cheshire	203/271-3200
FL	Pioneer Altamonte	305-834-3090
FL	Milgray/FL Winter Pk	305-647-5747
FL	Summit Dania	305-920-6253
FL	Time FL Ft Lauderdale	305-974-4800
GA	Milgray Atlanta	404-393-9666
GA	Pioneer Norcross	404-448-1711
GA	Electro-Air GA Atlanta	404-351-3545
IL	Pioneer Elk Grove Vlg	312-437-9680
IL	Milgray Chi Bensenville	312-350-0490
IN	Pioneer/Ind Indpls	317-849-7300
KS	Milgray/KC Overland Pk	913-236-8800
MD	Milgray Rockville	301-468-6400
MD	Pioneer/Wash Gaithersburg	301-921-0660
MD	Time MD Columbia	301-964-3090
MA	Milgray/New Eng Burlington	617-272-6800
MA	Time New Eng Peabody	617-532-6200
MI	Pioneer MI Livonia	313-525-1800
MN	Pioneer/MN Minnetonka	612-935-5444
MN	Time/Minn Bloomington	612-944-9192
MO	Time Mid West St Louis	314-391-6444
NJ	Milgray Marlton	609-983-5010
NY	Summit Distb Buffalo	716-887-2800
NY	Summit Distb Rochester	716-334-8110
NY	Milgray Pittsford	716-385-9330
NY	Milgray NY Farmingdale	516-420-9800
NY	Time NY Hauppauge	516-273-0100
NC	Pioneer Carolina Charlotte	704-527-8188
OH	Milgray Cleveland	216-447-1520
OH	Pioneer Cleveland	216-587-3600
OH	Pioneer/Dayton Dayton	614-761-1100
OR	Wyle Hillsboro	503-640-6000
PA	Pioneer/Del Horsham	215-674-4000
PA	Pioneer/Pitts Pittsburgh	412-782-2300

TELEDYNE RODNEY METALS
1357 E RODNEY FRENCH BVD
NEW BEDFORD MA 02742
TWX 710 344 1347 617-996-5691
W O'CONNOR EMP 360 ENG 20 OVER \$10,00K
CA Teledyne Rodney Pico..... 213-723-3291
MA Teledyne Rodney Maryland Hts..... 314-872-3522
PO Teledyne Rodney Ivyland..... 215-441-0205

TELEDYNE ROTOLITE 150 MT
BETHEL RD WARREN NJ 07060
TWX 710-986-3017 201-647-1040
J STICKEL

TELEDYNE SEMICONDUCTOR
1300 TERRA BELLA AV BOX 7267
MTN VIEW CA 94039-7267
TWX 910-379-6494 415-968-9241
D GILLOOLY EMP 425 ENG 30 OVER \$10,00K

AL Dixie Technical Mktg Huntsville..... 205-882-6702
AZ Luscombe Eng Co Scottsdale..... 602-949-9333
CA Bectronics Inc Woodland Hills..... 213-704-5616
CA GNH Assoc Mt View..... 415-961-6740
CO Candal Inc Golden.....
FL Electrocraft Inc Coral Springs..... 305-753-8666
GA Dixie Tech Mktg Stone Mtn..... 404-962-2530
IL Teledyne Semiconductor
Rolling Meadows..... 312-394-5999
IN Given Corp Ft Wayne..... 219-432-5585
KS Midtec Assoc DeSoto..... 913-441-6565
MD Walker-Houck Assoc Lutherville..... 301-296-6021
MA Dynasol Assoc Waltham..... 617-890-6777
MI KFW Sales Brighton..... 313-437-7255
MN Quantum Sales Bloomington..... 612-884-4700
MO Hitech Central Inc Florissant..... 314-831-9377
NH Teledyne Semiconductor Salem..... 603-893-9551
NJ Sunday-OBrien Haddonfield..... 609-429-4013
NY Technical Appl Mktg Hauppauge..... 516-348-0800
NY D L Eiss Rochester..... 716-328-3000
NC Dixie Tech Mktg Mt Airy..... 919-789-9759
OH KRW Sales Urbana..... 614-464-1861
OK Comtech Sales Tulsa..... 918-585-1313
OR Vantage Corp Tigard..... 503-620-3280
PA KRW Sales Oakmont..... 412-261-1323
TX Comptech Sugarland..... 713-491-6695
WA Walter Houck Moneta..... 703-297-4496
WA Vantage Corp Bellevue..... 206-455-3640
WI Metcom Assoc West Allas..... 414-476-1300
FR Vitel Elctns St Laurent PQ..... 514-331-7393
FR Vitel Elctns Mississauga ON..... 416-676-9270

DISTRIBUTORS

AL Powell Electronics Huntsville..... 205-539-2731
AZ Marshall Industries Tempe..... 602-968-6181
CA RV Weatherford Milpitas..... 408-943-4700
CA Marshall Industries Canoga Park..... 213-999-5001
CO Time Elect Englewood..... 303-799-4851
CT Time Elect Wallingford..... 203-265-3822
FL Marshall Industries Orlando..... 305-841-1878
GA Marshall Industries Norcross..... 404-923-5750
IL Semiconductor Spec Elmhurst..... 312-279-1005
IN Advent Electronics Indpls..... 717-872-4910
IA Deeco Cedar Rapids..... 319-365-7551
KS L Comp Wichita..... 316-265-5100
MD Pytttronic Ind Savage..... 301-792-0780
MA Future Elect Westborough..... 617-366-2400
MA Now Elect Framingham..... 617-872-5876
MA Marshall Industries Burlington..... 617-272-8200
MI Calder Livonia..... 313-525-2700
MN Joel Company Mpls..... 612-545-5669
MO Semiconductor Spec KC..... 816-452-3900
NE L Comp Omaha..... 402-867-7383
NY Marshall Industries Mt Laurel..... 609-234-9100
NY SAI Farmingdale..... 516-293-2710
NY Marshall Industries Rochester..... 716-235-7620
NY Marshall Industries Raleigh..... 919-867-7383
OH Hughes-Peters Columbus..... 614-294-5351
OK Quality Components Tulsa..... 918-664-8812
OR Time Elect Portland..... 503-684-3780
PA Pytttronic Ind Montgomeryville..... 215-643-2850
TX Quality Components Austin..... 512-835-0220
TX Quality Components Houston..... 713-772-7100
TX Marshall Industries Dallas..... 214-233-5200
WA Marshall Industries Bellevue..... 206-747-9100
WI Marshall Indus Brookfield..... 414-797-8400
FR Future Elect Pte Claire PQ..... 514-694-7710
FR Intek Elect Vancouver BC..... 604-324-6831

TELEDYNE SOLID STATE DIV
TELEDYNE RELAYS 12525
DAPHNE ST HAWTHORNE CA 90250
TWX 910-321-4610 213-777-0077
T GARLAND
ADV PG 399

For Sales Offices /Reps and Distributors See
Teledyne Relays Listings.

TELEDYNE TABER 455 BRYANT ST
NORTH TONAWANDA NY 14120
TWX 710-262-1264 716-694-4000
H STRY EMP 125 ENG 10 \$2,500-\$5,000K

AL Burnette Techno-Metrics
Huntsville..... 205-533-9073
AZ J Smith & Assoc Phoenix..... 602-267-0981
CA Dale-Dahl Assoc Alhambra..... 213-682-3417
CA Dale-Dahl Assoc Walnut Creek..... 415-933-9595
CO J Smith & Assoc Colorado Springs..... 303-597-5543
CT Addeco Corp Manchester..... 203-647-7136
FL W Boggs Maitland..... 305-647-2226
IL I & C Sales Hinsdale..... 312-323-8205
MA Addeco Corp Needham..... 617-444-4754
MI I & C Sales Trenton..... 313-671-1320
NJ Teskey & Assoc Fridley..... 612-571-0876
NJ Measurements Inc Budd Lake..... 201-770-1281
OH J Smith & Assoc Albuq..... 505-265-3407
OK I & C Sales Cincinnati..... 513-722-3101
PA Measurements Inc Exton..... 215-224-0310
TX Briscoe Co Houston..... 713-666-1781
VA Measurements Inc Fredricksburg..... 703-373-5520
WA Laison Inc Seattle..... 206-767-3870

TELEDYNE TAC 10 FORBES RD
WOBUEN MA 01801 TWX 94-9440 617-935-5400
J DILLON EMP 150 ENG 20 OVER \$10,00K

TELEFUNKEN ELECTRONIC 2
THERESIENSTR HEILBRONN
WEST GERMANY TWX 728796 07131 8821
EMP 6200
AZ Cantec Sales Inc Tempe..... 602-829-0191
CA Thorson Co San Diego..... 619-292-8525
CA Thorson Co Signal Hill..... 213-595-0361
CO Electrodyne Aurora..... 303-695-8903
ID Quest Marketing Boise..... 208-343-9969
NJ AEG-Telefunken Somerville..... 201-722-9800
OR Quest Marketing Beaverton..... 503-644-8077
TX OM Sales Inc Dallas..... 214-241-3876
UT Electrodyne SLC..... 801-486-3801
WA Quest Marketing Renton..... 206-223-1541

TELE MEASUREMENTS INC 145
MAIN AVE CLIFTON NJ 07014 201-473-8822
W ENDRES EMP 48 ENG 6 OVER \$10,00K

TELEMECANIQUE INC 100 RELAY RD
PLANTVILLE CT 06479 203-621-6771
EMP 400 ENG 20
AZ Delta Elect Sales Tempe..... 602-252-4222
CA Component Mktg Assoc Lomita..... 213-326-1460
CA Maxim Elec Sales Milpitas..... 408-946-6001
CO Electronic Sales Denver..... 303-771-6300
CT Selmark Assoc Clinton..... 203-573-9088
FL Raycom Inc Melbourne..... 305-259-7988
GA Electro-Rep Assoc Atlanta..... 404-320-1134
IL Industrial Reps Skokie..... 312-967-8430
IN M & L Elect Sales Indpls..... 317-359-4742
MD Delta III Assoc Columbia..... 301-730-4700
MA Selmark Assoc Millis..... 617-376-2914
MI Electronic Salesmasters Livonia..... 313-421-2520
MN Giefer Sales Mpls..... 612-884-2395
MO Industrial Reps St Louis..... 314-227-7401
NH Selmark Assoc Hopkinton..... 603-746-3299
NJ CRG Group Inc Oakland..... 201-337-8149
NY Noeth-Honsinger Assoc Pittsford..... 716-586-9002
NC Electro-Rep Assoc Charlotte..... 704-527-2530
OH Electronic Salesmasters
Beachwood..... 216-831-9555
OR Huntley Assoc Lake Oswego..... 503-635-3540
PA Process Engrg Co Pittsburgh..... 412-561-5050
TX Mil-Rep Assoc Richardson..... 214-644-6731
VA Delta III Assoc Midlothian..... 804-379-1816
WA Huntley Assoc Everett..... 206-353-1833
WI Industrial Reps Milwaukee..... 414-259-0965
FR R D Assoc Don Mills ON..... 416-444-0959

TELEPHONE DYNAMICS CORP
2473 JERUSALEM AVE NORTH
BELLMORE NY 11710 516-221-9870
L YOUNG EMP 14 ENG 1 \$500-\$1,000K

TELEISIS CONTROLS CORP 20700
US RT 23 BOX 5000 CHILLICOTHE
OH 45601 TWX 24-5451 614-642-3200
C COURTNEY EMP 56 ENG 18 \$5,000-\$10,00K
IL Capital Equip & Design
Naperville..... 312-961-2802
IN Automation Resources Columbus..... 612-378-4200
NJ Schindell Assoc Cherry Hill..... 609-424-1441
NC W C Boydell Charlotte..... 704-372-6192
OH Dan Floasin Inc Akron..... 216-376-8843
PA Linhud Co Pittsburgh..... 412-281-5869
TX Wilson Co Addison..... 214-931-8666
FR R G Shelley Ltd Don Mills ON..... 416-447-6471
FR Seltiron Inc St Laurent PQ..... 514-676-6344
FR Landel Controls Ltd Calgary AB..... 403-250-3553

TELEISIS SYSTEMS CORP TWO
OMNI WAY CHELMSFORD MA 01824
TWX 948143 617-256-2300
B DOUCETTE EMP 160 ENG 60 OVER \$10,00K
CA Telesis Los Angeles..... 714-964-2001
IL Telesis Chicago..... 312-310-1470
NJ Telesis..... 201-636-9300

TELESOF 10639 ROSELLE ST
SAN DIEGO CA 92121 619-457-2700
EMP 120 ENG 70 \$5,000-\$10,00K
FR Prior Data Sciences Ltd
Ottawa ON..... 613-820-7235

DISTRIBUTORS

CT Labtek Westport 203-227-5334

TELETERMINAL CORP 33 POST RD
GREENLAND NH 03840 603-431-1200
H LYNDES EMP 70 ENG 10 \$500-\$1,000K

TELETYPE CORP 5555 W TOUHY AVE
SKOKIE IL 60077 TWX 910
223-3611 312-982-2000
E JENKINS EMP 4500 OVER \$10,00K

TELE VIDEO SYSTEMS INC
1170 MORSE AVE SUNNYSVALE
CA 94086 TWX 910-338-7633 408-745-7760
M SNYDER EMP 740 ENG 50 OVER \$10,00K
CA S Rosina Irvine..... 714-476-0244
CA Funnell Sunnysvale..... 408-745-7760
GA P Lipke Norcross..... 404-447-1231
IL J Sansone Schaumburg..... 312-397-5400
MA T Robinson Waltham..... 617-890-3282
NY E Finnegan Syosset..... 516-496-4777
TX S Wilson Irving..... 214-258-6776

TELEX COMMUNICATIONS INC
9600 ALDRICH AVE S
MINNEAPOLIS MN 55420
TWX 29-7053 612-884-4051
D MEREEEN EMP 1800 ENG 51 OVER \$10,00K

TELEX COMPUTER PRODUCTS INC
6422 E 41 ST TULSA OK 74135 918-627-1111
J HAWKINS EMP 2000 ENG 400 OVER \$10,00K

TEL-LABS INC 154 HARVEY RD
LONDONDERRY NH 03053
TWX 710 220-1844 603-625-8994
R AREL EMP 150 ENG 4 \$2,500-\$5,00K
ADV PG 409

AZ Gassner & Clark Co Tempe..... 602-968-9037
CA Shawtech Inc Palo Alto..... 415-961-4775
CA Select Elect La Mirada..... 714-739-8891
FL Innovative Mktg Inc Lauderhill..... 305-485-6869
IL Richmar Electronics Corp
Downers Grove..... 312-968-0118
IN Richmar Electronics Corp
West Lafayette..... 317-846-6381
MD Precision Marketing Baltimore..... 301-799-4811
MA RFC Assoc Topsfield..... 617-887-8545
MS Doby Assoc Jackson..... 601-981-1138
NJ M & M Sales Inc Charlotte..... 704-529-0442
NY Ossmann Components Rochester..... 716-424-4460
NY Ossmann Components Syracuse..... 315-455-6611
NY Morgan Electronics Huntington
Station..... 516-549-5180
NY Ossmann Components Vestal..... 607-754-3264
NC Beacon Electronics Raleigh..... 919-787-0330
OH Augnat Assoc Akron..... 216-535-4396
OH Augnat Assoc Dayton..... 513-298-1507
OK ION Assoc Tulsa..... 918-664-0186
OR Olsen Ferree & Assoc Beaverton..... 503-883-7792
PA Precision Marketing Ardmore..... 215-649-6301
PA Augnat Assoc Pittsburgh..... 412-281-8283
TX ION Assoc Austin..... 512-331-7251
TX ION Assoc Grand Prairie..... 214-647-8225
TX ION Assoc Houston..... 713-977-4354
UT Aspen/Sage Assoc SLC..... 801-467-2401
WA Olsen Ferree & Assoc Bellevue..... 206-883-7792
WI Richmar Electronics Corp Butler..... 414-781-1730
FR Beacon Electronics Santurce PR..... 809-728-5040

TELMOS INC 740 KIFER RD
SUNNYSVALE CA 94086 408-732-4882
R HENNIGER EMP 75 ENG 18

TELONIC/BERKELEY 2825 LAGUNA
CANYON RD LAGUNA BEACH
CA 92652 TWX 182 720 714-494-9401
H ELMES EMP 110 ENG 7 \$2,500-\$5,00K
CA H B Marketing Los Altos..... 415-941-4080
CA Relcom Agoura Hills..... 818-991-4221
MA RF Assoc Topsfield..... 617-887-9762
NY Friedman Smith Mt Vernon..... 914-664-4866
PA Electro Rep Lancaster..... 717-299-5877
FR Tracan Elctns Corp Mississauga
ON..... 416-625-7752

TELPAR INC 4137 BILLY MITCHELL
DR BOX 796 ADDISON TX 75001
TWX 73-2561 214-233-6631
M WATSON EMP 30 ENG 7 \$5,000-\$10,00K

TELTONE CORP 10801 120 ST NE
KIRKLAND WA 98033
TWX 910-449-2862 206-827-9626
L PEARSON EMP 600 ENG 80 OVER \$10,00K

AL K & E Assoc Huntsville..... 205-883-9720
AZ Semi-Systems AZ Scottsdale..... 602-991-1151
CA GNH Inc Mt View..... 415-961-6740
CA Vale Elect Assoc Irvine..... 714-551-4004
CO Starsales Boulder..... 303-440-4193
FL Beacon Electronics Melbourne..... 305-724-8010
GA K & E Assoc Doraville..... 404-448-7025
IL LTD Technologies Itasca..... 312-773-2900
IN Allen Nace Inc Indpls..... 317-849-7038
IA PMR Inc Cedar Rapids..... 319-362-9177
KS PMR Overland Park..... 913-381-0004
MI Techrep Inc Psianti..... 313-572-1950
MN Quantum Sales Bloomington..... 612-884-4700
MO PMR Inc Maryland Hts..... 314-569-1220
NJ Daner-Hayes Glen Gardner..... 201-537-4386
NM Semi-Systems NM Albuquerque..... 505-344-1511
NY Daner-Hayes Brewster..... 914-279-2161
OH Allen Nace Inc Englewood..... 513-836-0931
OK J B Guenther Tulsa..... 918-660-5126
PA Allen Nace Inc Glenshaw..... 412-487-1217
TX J B Guenther Dallas..... 214-691-8500
VT Whitehead Assoc White River Jct..... 802-295-5260
VA Beacon North Inc Fairfax..... 703-591-1300
WI LTD Technologies Milwaukee..... 414-774-1000

DISTRIBUTORS

CA Pacesetter Electronics Anaheim..... 714-779-5855
CA Pacesetter Electronics Sunnyvale..... 408-734-5470
GA Component Distributors Norcross..... 404-441-3320
IL GBL/Gould Elk Grove Village..... 312-593-3220
MD Ax-H Electronics Gaithersburg..... 301-840-9640
MA D-H Marketing Wayland..... 617-655-0888
NM Alliance Electronics Albuquerque..... 505-292-3360
OH Televex Inc Dayton..... 513-458-1487
TX Bell Component Sales Arlington..... 817-461-5303

TELVAC INSTRUMENT CO 7534 ATOLL
NO HOLLYWOOD CA 91605 818-983-2535
M O'BREIN EMP 5 \$100-\$250K

TELVISION LABS BOX 519
WAUCONDA IL 60084 312-763-3800
F NIENABER EMP 50 ENG 3

TEMPEL STEEL CO 5990 W TOUHY AVE
NILES IL 60648 TWX 25-5246 312-282-9400
T SCHWEDER EMP 1200 ENG 40 OVER \$10,00K
CA Tempel Steel Co Cerritos..... 313-926-4439
GA P Bernhardt Roswell..... 404-992-0860
MO A Nicholson St Louis..... 314-423-2778
NJ W Rumpa Edison..... 201-225-4680
PA J Calvin Collegeville..... 215-489-1233
TN J Federspiel Franklin..... 414-423-2778

TEMPIL DIV BIG THREE INDUSTRIES
INC 2901 HAMILTON BLVD
SOUTH PLAINFIELD NJ 07080
215-757-8300
ADV PG 459

DISTRIBUTORS

CA B J Wolfe Entrys No Hollywood	213-877-5518
CA Thermx of California Foster City	415-571-1166
CA Thermx Southwest San Diego	619-573-0983
CA Mitchell Instrument Co	
San Marcos	619-744-2690

TEMPOSONICS DIV MTS SYS CORP
111 E AMES CT PLAINVIEW
NY 11803 TWX 97 1505
516-349-1950
J LIPARI

TEMP-PRO INC 200 INDUSTRIAL DR
NORTHAMPTON MA 01060
413-584-3165
R LAPOINTE EMP 35 ENG 2 \$1,000-\$2,500K

TEMTRON ELECTRONICS LTD
15 MAIN ST BOX 170 EAST
ROCKAWAY NY 11518-0170
516-599-6400
EMP 20 \$2,500-\$5,000K
ADV PG 285,517

TENCOR INSTRUMENTS 2400
CHARLESTON RD MTN VIEW
CA 94043 TWX 910-379-6436
415-969-6767
B HART EMP 150 ENG 30

CA Griot Assoc Los Altos	415-941-2533
CO Tencor Inst Englewood	303-790-1984
FL R L Schoonover Longwood	305-788-3344
IL Brooks Engrg Co Chicago	312-944-1227
NH Tencor Inst Stratham	603-772-4100
NJ Tencor Inst Fair Lawn	201-794-6094
NC Micro-Tech Assoc High Point	919-889-5606
PA Powell Pendergraph Inc	
Willow Grove	215-657-0330
VA Tencor Inst Reston	703-860-3700

TENNEY ENGINEERING INC
112 SPRINGFIELD RD UNION
NJ 07083 TWX 710 985-4725
201-686-7870
F GARDNER EMP 250 ENG 25 OVER \$10,000K
ADV PG 84

AL Equipment Sales Co Huntsville	205-536-5399
AZ Jayson Co Phoenix	602-867-1964
CA Environment Assoc Chatsworth	818-709-1230
CA Tenney Engrg Inc Sunnyvale	408-745-6232
CO Tenney Engrg Englewood	303-798-0955
CT Equipment Sales Co Hamden	203-281-4578
FL Equipment Sales Co Altamonte Springs	305-339-2972
IL Marsland Assoc Des Plaines	312-298-2620
IL Marsland Assoc Indpls	317-293-5437
MD Brimberg Assoc Wheaton	301-946-2670
MA Equipment Sales Co Lowell	617-459-7000
MI Dietrich & Assoc Warren	313-751-4990
MO Tenney Engrg Inc Blue Springs	816-229-7667
NJ Tan-Mar Mt Laurel	609-235-4345
NY Martin P Andrews Inc Fayetteville	315-637-3144
NC Equipment Sales Co Raleigh	919-872-8376
OH Dietrich & Assoc Cleveland	216-781-1855
PA Dietrich & Assoc Pittsburgh	412-892-2992
TX McMahon & Zerbe Co Garland	214-681-1414
WI Marsland Assoc New Berlin	414-786-6611
FR J G Weiss Co Ltd Montreal PQ	514-337-5022
FR J G Weiss Co Ltd Mississauga ON	416-673-0011
FR J G Weiss Co Ltd Winnipeg MB	204-783-3022

TENOR CO INC 17020 W ROGERS DR
NEW BERLIN WI 53151
414-782-3800
TX 26-706
P YOBLIN EMP 45 ENG 9

TENSITRON INC 200-204 DEPOT RD
HARVARD MA 01451
617-456-3511
H SCHULTZ EMP 23 ENG 2 \$250-\$500K

TENSOLITE CO DIV CARLISLE CORP
OLD POST RD RT 9A BUCHANAN
NY 10511 TWX 710-573-2341
914-737-5600
D YELLIN EMP 250 ENG 10

CA P Kilbridge Carson	213-539-7110
CA H B Assoc Union City	415-487-3933
CA A-5 Parker	303-841-3651
FL EPM Corp Margate	305-977-0331
GA R & D Wire & Cable Norcross	404-447-5050
IL W G Controls Lisle	312-963-5954
MA Ashline Stow	617-264-4771
MI Forand Sales Co Birmingham	313-644-0087
MN Termatech Elctr Mktg Bloomington	612-854-2001
NJ Accurate Wire & Cable Hillside	201-686-2700
OH JAC Marketing Painsville	216-357-9858
PA J Smith Dillsburg	717-432-2990
TX Lanoue-Robinson Plano	214-985-1369
WA D Wilkerson Bellevue	206-462-5671

TEN-TEC INC HWY 411 E
SEVIERVILLE TN 37862
615-453-7172
J REDWINE EMP 160 ENG 4 \$2,500-\$5,000K

TENTEL 1506 DELL AVE CAMPBELL
CA 95008 TWX 910-590-8001
408-379-1881
W GRAHAM EMP 10 ENG 2 \$500-\$1,000K

TERADO CORP 1068 RAYMOND AVE
ST PAUL MN 55108
612-646-2868
F MUNSON EMP 17 ENG 3 \$500-\$1,000K
CA Peter Doran & Co Redondo Bch
213-541-7621

TERADYNE CONNECTION SYSTEMS INC
44 SIMON ST NASHUA NH 03060
603-889-5156
TWX 710-228-1431
D MURPHY EMP 1100 ENG 80 OVER \$10,000K

AZ Arcorn Sales Scottsdale	602-947-5745
CA Teradyne Irvine	714-546-1658
CA Teradyne Sunnyvale	408-732-8770
CO Teradyne Boulder	303-443-1041
CT Unesco/Genex Stamford	203-322-9308
FL Gillum Sales Orlando	305-857-2110
IL Heartland Tech Mktg Rolling Meadows	312-577-9222
MA Unesco/Genex Waltham	617-890-1535
MN TWX Sales New Brighton	612-636-1770
NJ Hingston Walsh Assoc Clinton	201-735-8971
NY Hingston-Walsh Assoc Larchmont	914-834-5781
NY T-Squared Electrics Syracuse	315-463-8592
OR B & P Sales Beaverton	503-641-3486
PA Tritek Sales Haddonfield	609-429-1551
TX Cunningham Components Houston	713-461-4197
VA Teradyne Falls Church	703-821-8870
WA B & P Sales Bellevue	206-454-6571

TERADYNE INC 183 ESSEX ST
BOSTON MA 02111 TWX 710
321-1055
617-482-2700
EMP 3100 ENG 300 OVER \$10,000K

TESDATA SYSTEMS CORP 7921
JONES BRANCH DR MCLEAN
VA 22102 TWX 89-9489
703-827-4000
T SNYDER EMP 150 ENG 60 OVER \$10,000K

CA K White Foster City	415-572-8600
CO C Czitler Englewood	303-694-4440
IL L Sofrando Deerfield	312-948-8700

TEST PROBES INC BOX 2113
LA JOLLA CA 92038 TWX 697192
619-459-4197
\$250-\$500K
ADV PG 369

AZ Metermaster Phoenix	602-243-4111
CA Metermaster Los Angeles	213-685-4340
GA Metermaster Norcross	404-446-0166
IN Commodore I Indianapolis	317-636-3118
KS Commodore I Kansas City	816-842-8585
NY The Instrument Mart Great Neck	516-487-7430

DISTRIBUTORS

CA Western Electronic Supply	
Glendale	213-246-4861
CA Rep Inc Fremont	415-651-4131
CO Boulder Elect Supply Boulder	303-530-1616
CT Connecticut Cal Labs Monroe	203-261-9518
FL Allied Elect Ft Lauderdale	305-486-0500
IL Commodore I Rolling Meadows	312-394-5441
IA Allied Electronics Des Moines	515-274-5700
MD Eastern Instrumentation	
Burtonsville	301-384-8500
MA Calcotron Natick	617-879-7650
MI Satullo Co Royal Oak	313-549-3910
MN Atrix Tool Inc Burnsville	612-894-6154
MO Allied Elect St Louis	314-878-1229
NJ Gestalt Systems Inc Belle Mead	201-359-0018
NY Capital Instrument Frankfurt	315-894-4245
NC EMIS Pineville	704-588-4624
OH Metermaster Cleveland	216-651-4100
OR Weston Inc Portland	503-283-0132
PA Allied Electronics Bala Cynwood	215-667-6940
TX Specialized Products Irving	214-257-3535
UT Intermountain Inst SLC	801-487-3151
VA Priest Electronics Norfolk	804-855-1005
WA Allied Electronics Seattle	206-767-5772
WI Commodore I Milwaukee	414-342-0127

TESTRONICS 1601-100 N GLENVILLE
DR RICHARDSON TX 75081
214-238-8378
TWX 469-602
EMP 25 ENG 6 \$2,500-\$5,000K

TETKO INC 420 SAW MILL RIVER RD
ELMSFORD NY 10523 TWX 137331
914-592-5010
FL PRATOLA EMP 130 ENG 3 OVER \$10,000K
ADV PG 421

CA Tetko Inc Monterey Pk	818-289-9153
GA Tetko Inc Chamblee	404-451-3036
IL Tetko Inc Rolling Meadows	312-253-1340

TETTEX INSTRUMENTS INC
1055 W GERMANTOWN PIKE
FAIRVIEW VILLAGE PA 19409
215-539-6050
TWX 753899
G PRZYBYS EMP 80 ENG 20

AL E J Ruth Assoc Birmingham	205-979-0880
MO Fitzgerald Sales St Louis	314-862-1660
NH Components & Systems Keene	603-239-6278
NJ M J Seavy & Sons Englewood	201-871-4343
NY M J Seavy & Sons Solvay	315-488-0084
OH O D Associates Pickerington	614-861-6911

TEXAS INSTRUMENTS OPTOELECTRONICS
BOX 225012 MS 12 DALLAS
TX 75265 TWX 910-867-4702
214-995-6611
EMP 50000 OVER \$10,000K

TEXAS INSTRUMENTS INC CONTROL
PRODS 34 FOREST ST MS 12-33
ATTLEBORO MA 02703
617-699-3283
TWX 710-346-0566
J PASTER

CA TI 831 S Douglas El Segundo	213-973-2571
GA TI 3300 N East Xwy Atlanta	404-452-4600
IL TI 515 W Algonquin Arlington Hts	312-640-2985
IN TI 2020 Inwood Dr Ft Wayne	219-424-5174
KY TI 10101 Linn Sta Rd Louisville	502-426-7822
MI TI Farmington Hills	313-553-1530
MN TI 7625 W Parklawn Edina	612-830-1613
MO TI St Louis	314-569-7600
NJ TI 1245 Westfield Av Clark	201-574-9800
NY TI East Syracuse	315-463-9291
NC TI Woodlawn Rd Charlotte	704-527-0930

OH TI 4124 Linden Av Dayton	513-258-3877
PA TI 575 Virginia Dr Ft Washington	215-643-6450
TN TI 2 Maryland Farms Brentwood	615-373-5190
TX TI Box 225214 Dallas	214-995-6538
WA TI 2723 152 Av NE Redmond	206-881-3080
WI TI 205 Bishop Way Brookfield	414-784-3040
FR TI 280 Centre St E Richmond Hill	416-884-9181

DISTRIBUTORS

CA Kierulff Elect Cypress	714-220-6422
CA Richey-Western Elect Garden Grove	714-895-0060
FL Peerless Radio of FL Pompano Bch	800-327-4993
MO Van Dusen Aircraft St Louis	314-731-1700
NJ Hansome Intl Linden	201-662-9044
NY Peerless Radio Corp Lynbrook	800-645-2268
OH Carver Supply Dayton	513-461-9673
FR Leavens Bros Ltd Mississauga ON	416-678-1234

TEXAS INSTRUMENTS INC CONNECTOR
SYSTEMS 34 FOREST ATTEBORO
MA 02703 TWX 710-346-0566
617-699-3800
B SMITH

AL Montgomery Marketing Huntsville	205-830-0498
AZ Systems Sales of AZ Tempe	602-829-9338
CA Ewing-Foley Los Altos	415-941-4525
CA Earle Assoc San Diego	619-278-5441
CO Electronic Component Sys	
Littleton	303-797-0894
FL EIR Inc Maitland	305-660-9600
GA Montgomery Marketing Norcross	404-447-6124
IL Janus Inc Itasca	312-250-9650
KS Rush & West Olathe	913-764-2700
MD Professional Repts Columbia	301-992-7400
MA Enterprise Technology Plainville	617-695-4760
MI Action Component Sales Novi	313-349-3940
MO Gil Sales Mendota Hts	612-454-3086
NJ Rush & West Baldwin	314-394-7271
NJ TAI Bellmawr	609-933-2600
NM Systems Sales Albuquerque	505-881-8877
NY Ossmann Component Sales	
Rochester	716-424-4460
NC Grimm Siegel Assoc W Caldwell	201-575-9300
NY Montgomery Marketing Cary	919-467-6319
OH Components Inc Cleveland	216-243-9200
OK Ion Assoc Tulsa	918-664-0186
OR Micro Sales Aloha	503-642-1818
PA Components Inc Pittsburgh	412-824-1600
TX Ion Assoc Houston	713-977-4354
WA Micro Sales Bellevue	206-451-0568
WI Janus Inc Milwaukee	414-476-9104

DISTRIBUTORS

AL Hall-Mark Huntsville	205-837-8700
AL Marshall Huntsville	205-881-9235
AZ Kierulff Phoenix	602-437-0750
AZ Wyle Phoenix	602-249-2232
AZ Marshall Tempe	602-968-6181
CA Kierulff Elec Palo Alto	415-968-6292
CA Marshall Canoga Park	213-999-6001
CA Kierulff Tustin	714-731-5711
CA Kierulff LA	213-725-0325
CA Kierulff San Diego	619-278-2112
CA R V Weatherford Glendale	213-849-3451
CA R V Weatherford San Diego	619-695-1700
CA Cypress San Jose	408-945-8400
CA Wyle El Segundo	213-322-8100
CA Wyle Santa Clara	408-727-2500
CA Marshall Irvine	714-556-6400
CA Marshall Sunnyvale	408-732-1100
CA Hall-Mark San Diego	619-268-1201
CA Kierulff San Jose	408-971-1260
CA Hall-Mark Tustin	714-669-4700
CA Hall-Mark El Segundo	213-644-9101
CO Kierulff Englewood	303-790-4444
CO Marshall Denver	303-427-1800
CO Wyle Thornton	303-457-9953
CO R V Weatherford Denver	303-428-6900
CT Milgray Orange	203-795-0711
CT Kierulff Wallingford	203-265-1115
CT Marshall Wallingford	203-265-3822
FL Milgray Elect Winter Park	305-647-5747
FL Kierulff St Petersburg	813-576-1966
FL Hall-mark Orlando	305-855-4020
FL Diplomat Clearwater	813-443-4514
FL Hall-mark Ft Lauderdale	305-971-9280
FL Kierulff Ft Lauderdale	305-486-4004
FL Hall-Mark Clearwater	813-530-4543
GA Kierulff Norcross	404-447-5252
GA Milgray Atlanta	404-393-9666
GA Marshall Norcross	404-923-5750
GA Hall-Mark Norcross	404-447-8000
IL Newark Elec Chicago	312-638-4411
IL Kierulff Elk Grove Village	312-640-0200
IL Diplomat Bensenville	312-595-1000
IL Semiconductor Elmhurst	312-279-1000
IL Marshall Schaumburg	312-490-0155
IN Graham Elect Indpls	317-634-8202
IN Graham Elect Ft Wayne	219-423-3422
IN Marshall Indpls	317-547-8808
IA Deeco Inc Cedar Rapids	319-365-7551
KS Milgray/KC Overland Pk	913-236-8800
KS Hall-mark Lenexa	913-888-4747
MD Diplomat Columbia	301-995-1226
MD Hall-mark Columbia	301-988-9800
MD Milgray Rockville	301-468-6400
MD Kierulff Linthicum	301-636-5800
MD Marshall Rockville	301-468-6400
MA Interface Electronics Hopkinton	617-435-6858
MA Future Elect Westboro	617-366-2400
MA Kierulff Boston Billerica	617-667-8331
MA Aved Elec Willimington	617-657-8310
MA Milgray/New England Burlington	617-272-6800
MI Marshall Livonia	313-525-5850
MN Marshall Plymouth	612-559-2211
MN Industrial Components Mnppls	612-831-2666
MO Kierulff Edina	612-941-7500
MO Hall-mark Maryland Hts	314-291-5350
MO Kierulff Maryland Hts	314-739-0855

MO Semiconductor Specialists Kansas City	816-452-3900
NJ General Radio Supply Camden	609-964-8560
NJ Kierulff Fairfield	201-575-6750
NJ Milgray Elect Marlton	609-983-5010
NJ Milgray Elect Totowa	201-785-1830
NJ Hall-Mark Fairfield	201-575-4415
NJ Marshall Fairfield	201-882-0320
NY Milgray Elect Farmingdale	516-420-9800
NY Summit Distributors Buffalo	716-884-3450
NY Diplomat Melville	516-454-6400
NY Rochester Radio Rochester	716-454-7800
NY Marshall Rochester	716-235-7620
NY Milgray Pittsford	716-365-9330
NC Kierulff Raleigh	919-872-9882
NC Hall-mark Raleigh	919-872-0712
NC Marshall Raleigh	919-878-9882
OH Kierulff Cleveland	216-587-6558
OH Marshall Dayton	513-236-8088
OH Milgray Cleveland	216-447-1520
OH Kierulff Dayton	513-439-0045
OH Kierulff Dayton	513-439-0045
OK Hall-Mark Tulsa	918-665-3200
OK Kierulff Tulsa	918-252-7537
OR Almac Elect Beaverton	503-641-9070
OR Wyle Hillsboro	503-640-6000
OR Marshall Beaverton	503-644-5050
TX Kierulff Houston	713-530-7030
TX R V Weatherford Houston	713-688-7406
TX Hall-mark Dallas	214-341-1147
TX Marshall Houston	713-789-6500
TX Kierulff Austin	512-835-2090
TX Marshall Houston	713-781-6100
TX Kierulff Dallas	214-343-2400
UT Kierulff Elect SLC	801-973-6913
UT Diplomat SLC	801-964-4134
UT Wyle SLC	801-974-9953
WA Almac Elec Bellevue	206-643-9992
WA Kierulff/Seattle Tukwila	206-575-4420
WA Wyle Bellevue	206-453-8300
WA Marshall Bellevue	206-747-9100
WI Hall-Mark Oak Creek	414-761-3000
WI Kierulff Waukesha	414-784-8160
FR Cesco Elect Ltd Montreal PQ	514-735-5511
FR Future Elec Montreal PQ	514-694-7710
FR Future Elec Vancouver BC	604-438-5545
FR RAE Elect Vurnaby BC	604-291-8866
FR Electro Sonic Inc Willowdale ON	416-494-1666
FR Future Elect Ottawa ON	613-820-8313
FR Future Elect Downsview ON	416-663-5563
FR Future Elec Calgary	403-235-5325
FR RAE Elect Edmonton	403-451-4001

TEXTET SEMICONDUCTORS 301 TEXTET DR ALLEN TX 75002 TWX 203943	214-727-1111
M WRAY EMP 200 ENG 10 \$2,500-\$5,000K	

TEXMATE INC 348 S CEDROS BOX 2000 SOLANA BEACH CA 92075 TWX 279-247	619-481-7177
SALES DEPT EMP 36 ENG 6 \$1,000-\$2,500K ADV PGS 268,269	

TEXSCAN CORP 3102 N 29 AVE PHOENIX AZ 85016 TWX 810-341-3184	602-252-5021
T HOLDER EMP 2040 ENG 250 OVER \$10,000K	

TEX-TECH INDUSTRIES INC 150 INDUSTRIAL PK RD MIDDLETOWN CT 06457 TWX 994404	203-632-2211
J ABRAMCZYK EMP 512 ENG 10 D & G Industrial Sales	
Huntington Bch	714-968-0880
CT S Schnabel Rocky Hill	203-563-4563
NY O Haugland Canandaigua	716-454-2000
OH Goodwin Enterprises Reynoldsburg	614-886-0168
TX P Stevens Leander	512-259-1400

TEXTPOOL PRODUCTS/3M 1410 PIONEER DR IRVING TX 75061	214-259-2676
J STODDART EMP 200 ENG 15 OVER \$10,000K	

TEXTRO INC BOX 381 GREER SC 29652	803-879-0752
D SCHENEL EMP 10 ENG 1 \$500-\$1,000K	

TEWIFE CO BOX 575 UPPER SADDLE RIVER NJ 07458 TWX 130370	201-327-5577
J MARANO EMP 165 ENG 6 OVER \$10,000K	

T & F DIV CHR INDUSTRIES INC 3660 EDISON PL ROLLING MEADOWS IL 60008 TWX 910-687-0371	312-392-8090
J DRISCOLL EMP 50 ENG 3 \$2,500-\$5,000K	

T-F ELECTRONICS INC 9415 NEILS THOMPSON DR AUSTIN TX 78759 TWX 776427	512-836-7323
EMP 88 ENG 1 \$2,500-\$5,000K	

THE NUCLEUS INC 761 EMORY VALLEY RD BOX 2561 OAK RIDGE TN 37830 TWX 557-482	615-483-0008
R STEVENS EMP 35 ENG 5 \$1,000-\$2,500K	

THERMAL AMERICAN FUSED QUARTZ CO RT 202 & CHANGE BRIDGE RD MONTVILLE NJ 07045 TWX 136477	201-334-7770
G MILLER EMP 120 ENG 1 \$5,000-\$10,000K	

THERMALLOY INC 2021 W VALLEY VIEW LA DALLAS TX 75234 TWX 910-860-5542	214-243-4321
L MARSHALL EMP 275 ENG 5	

AL Montgomery Mktg Huntsville	205-830-0498
AZ ISDS Phoenix	602-971-6250
CA Straube Assoc Mt View	415-969-6060
CA Interstate Mktg Assoc LA	213-883-7606
CO Lindberg Co Denver	303-758-9033
FL V G Sales Pompano Beach	305-971-0900
GA Montgomery Mktg Norcross	404-447-6124
IL John G Twist Co Elk Grove Vlg	312-593-0200
IN R O Whitesell & Assoc Indpls	317-359-9283
IA PMR Cedar Rapids	319-362-9177
KS PMR Overland Park	913-381-0005
KY R O Whitesell & Assoc Louisville	502-426-7696
MI R O Whitesell & Assoc Southfield	313-559-5454
MN John G Twist Co Bloomington	612-835-2120
MO PMR Maryland Heights	314-569-1220
NH Sales Engineering Co Salem	603-893-5521
NJ Trinkle Sales Cherry Hill	609-795-4200
NM Lindberg Co Albuquerque	505-881-1006
NY Bob Dean Inc Ithaca	607-237-1111
NY Comtronic Assoc Melville	516-249-0505
NC Montgomery Mktg Cary	919-467-6319
OH R O Whitesell & Assoc Cincinnati	513-521-2290
OR N R Schultz Co Beaverton	503-643-1644
PA R O Whitesell & Assoc Pittsburgh	412-344-7277
TX Ion Assoc Houston	712-461-5311
UT Lindberg Co SLC	801-534-1500
WA N R Schultz Co Bellevue	206-454-0300
WI John G Twist Co Brookfield	414-782-2670
FR A Deskin Sales Montreal PQ	514-331-2860

THERMATOOL CORP 280 FAIRFIELD AVE STAMFORD CT 06902	203-357-1555
N BLAIR JR EMP 100 ENG 10 OVER \$10,000K	

THERMAX WIRE CORP 32-02 LINDEN PLACE FLUSHING NY 11354 TWX 710-582-2551	718-939-8300
J CARDELLO EMP 170 ENG 7	

THERMO-COUPLE PRODUCTS CO INC 27W230 BEECHER WINFIELD IL 60190 TWX 720421	312-653-1400
D RANDICK EMP 48 ENG 21 \$1,000-\$2,500K	

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AR Centro Inc Sherwood	501-834-2193
CA Jontec Systems Inc Laguna Hills	714-581-5972
CA Paul Rosen Co Berkeley	415-526-8286
CO McCoy Sales Corp Englewood	303-762-8012
CT A F Hyde Co Weston	203-227-6206
IN George E Booth Co Indianapolis	317-271-9261
IA Special Products Co Cedar Rapids	319-362-1212
IA Dy-Tronix Inc Cedar Rapids	319-377-8275
KY Donovan Controls Louisville	502-897-0664
LA Engineered Products Inc Baton Rouge	504-272-6955
MA S E Papp & Assoc Lowell	617-937-0287
MI G & D Assoc Ltd Redford	313-534-3337
MN Arjay Sales Inc Bloomington	612-854-4972
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NJ James V Roy Inc North Plainfield	201-754-7987
OH Anderson-Bolds Inc Cleveland	216-229-4700
OK D D Frederick Inc Tulsa	918-584-1429
OR Technical Controls Inc Portland	503-228-8134
PA Autrolabs Inc Pittsburgh	412-367-2501
TN Centro Inc Memphis	901-357-1261
TX JD Instruments Inc Houston	713-488-8087
UT Bee & Tee Controls Midvale	801-566-7722
WA Technical Controls Inc Bellevue	206-454-7630

THERMO-DISC INC 1320 S MAIN ST MANSFIELD OH 44907 TWX 987-455	419-756-5911
J KIGHT EMP 1000 ENG 20 OVER \$10,000K	

THERMO-DYNAMICS INC 9225 W 53 ST MERRIAM KS 66203 TWX 910-743-4120	913-384-3100
B NEUER EMP 35 ENG 1 \$2,500-\$5,000K	

THERMODYNE INTL LTD 20850 S ALAMEDA ST LONG BEACH CA 90810	213-603-1976
W WOLF EMP 120 ENG 4 \$5,000-\$10,000K	

THERMO ELECTRIC CO INC 109 FIFTH ST SADDLE BROOK NJ 07662 TWX 710-990-5108	201-843-5800
H KORMAN EMP 397 ENG 12 OVER \$10,000K	
CA Thermo Elec Co North Hollywood	765-5276
CO Technical Mktg Mfg Inc Lakewood	232-1516
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KS BRN Sales Gladstone	468-5520
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MA Spang Controls Co Stoneham	438-7895
MN Yukon Sales Assoc Eden Prairie	941-8155
MO Industrial Msmt Co Chesterfield	532-6910
NJ Thermo Elec Co Elmwood Pk	791-9683
OH Thermo Electric Cleveland	433-4510
PA Arobone & Co Ft Washington	628-9292
TX Thermo-Electric Co Houston	240-1330
UT Western Engrg Co Murray	268-3333
WA Antec Inc Bellevue	454-2442
WV Process Instr & Equip Co Charleston	776-6200
FR Thermo Electric (Can) Ltd Brampton ON	451-0813

THERMOELECTRIC COOLING AMERICA CORP 448 N HALSTED ST CHICAGO IL 60622	312-666-1600
L MIKALUSKIS EMP 25 ENG 3 \$1,000-\$2,500K	

THERMOMETRICS INC 808 US HWY 1 EDISON NJ 08817 TWX 844-387	201-287-2870
H BROITMAN EMP 150 ENG 8 ADV PGS 472,473	

CA ElSCO Elctns 11562 Knott St Garden Grove	
CA ElSCO Elctns 7841 Balboa San Diego	
FL D J Ellis & Assoc 2855 SMU Blvd Orlando	
MA Jordan Technology Box 362 Lexington	

THERMONICS INC 3350 SCOTT BLVD BLDG 32 SANTA CLARA CA 95054 TWX 172-353	408-496-6838
J MARTIN	

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CA Pro Active Mktg San Diego	619-238-0311
FL Semquip Inc Ft Lauderdale	305-772-3002
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WA Liaison Inc Seattle	206-767-3870

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R SCHEFFLER EMP 200	

THERMOSEN INC 375 FAIRFIELD AVE BOX 1254 STAMFORD CT 06904 TWX 965846	203-324-6125
C FARRIS EMP 30 ENG 3 \$1,000-\$2,500K	

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V WISDOM EMP 557 ENG 5 OVER \$10,000K	

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D MCKINLEY EMP 600 ENG 60 OVER \$10,000K	

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NC Tingen Tech Sales Raleigh	919-878-4440
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CO Time Electronics Denver 303-799-8851
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TWX 027335 317-923-2501
EMP 250 ENG 8 OVER \$10,000K

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NJ 07470 TWX 710-988-5836 201-696-5200
B SETTICASE EMP 370 ENG 45
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ADV PG 72

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TX Captronics Dallas 214-340-3592
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TWX 221236 201-575-5586
EMP 35

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GA 30338 TWX 810-766-2267 404-587-0017
M LEGETTE
ADV PG 251

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Cobalt Way Sunnyvale 408-732-9027
MA Thorn EMI Technology 1
Speer St Framingham 617-875-5858
NM Thorn EMI Technology Albuquerque 505-884-0541
VA Thorn EMI Technology Reston 703-620-6056

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623 WYOMING SE ALBUQUERQUE
NM 87123 505-265-8701
J BENNEWITZ EMP 25 ENG 6 \$500-\$1,000K

TIC TEL-INSTRUMENT ELECTRONICS
CORP 728 GARDEN ST CARLSTADT
NJ 07072 201-933-1600
M VENEZIA EMP 49 ENG 6 \$1,000-\$2,500K

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E MARTIN EMP 35 ENG 5

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P BLOOMFIELD EMP 10 ENG 3

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NJ 07675 TWX 178200 201-391-1111
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CT	MacArthur & Co Hamden	203-281-5847
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UT	Lindberg Co SLC	801-969-2400
WA	Electronic Sources Bellevue	206-643-0400
FR	Deskin Sales Corp Markam On	416-475-1412
FR	A Deskin Sales Corp Richmond	604-273-4963
FR	Deskin Sales Corp Montreal PQ	514-331-2860
FR	Deskin Sales Corp Edmondson AB	413-451-1895

DISTRIBUTORS

CT	E J Steve East Hartford	203-568-1927
FL	KSM Elect Ft Lauderdale	305-739-5880
MD	Pioneer/Wash Gaithersburg	301-948-0710
NY	Simcona Elect Rochester	716-328-3230
PA	Pytronic Indus Montgomeryville	215-643-2850
UT	Vonn Wire & Cable Garland	214-494-0355
TIMET BOX 2824 400 ROUSER RD		
PITTSBURGH PA 15230		
TXW	81-2510	412-262-4200
EMP 2000 ENG 200 OVER \$10,000K		
CA	Timet Irvine	714-261-7444
CT	Timet E Windsor	203-627-7051
OH	Timet Cincinnati	513-762-7640
TX	Timet Grand Prairie	214-641-4410

TIME ZERO CORP 103 CENTRAL AVE

CLIFTON NJ 07011	201-340-0400
J ALLEGRI EMP 85	
ADV PG 370	
Toll Free Number 800-526-7476	

TINNING CO 69 NORMAN ST EVERETT

MA 02149	617-389-3400
M MENACHEM EMP 20 ENG 1 \$1,000-\$2,500K	

TINIUS OLSEN TESTING MACHINE CO

BOX 429 WILLOW GROVE		
PA 19090 TWX 4761214		215-675-7100
T BROUGHTON EMP 116 ENG 13 OVER \$10,000K		
AZ	Thomson/Quill Assoc Phoenix	602-371-0011
CA	Hart-Latimer Assoc Santa Ana	714-973-9200
CA	Hart-Latimer Assoc San Carlos	415-591-2487
CO	Thompson/Quill Assoc Denver	303-373-8595
CT	Tinius Olsen Cheshire	203-271-1323
GA	Matis Test Equip Corp Atlanta	404-233-8409
IL	C & F Mach Corp Ewa Beach	808-682-1541
HI	Labquip Corp Minooka	815-467-4490
KS	TechScience Intl Inc Overland Pk	913-381-2600
MI	Tinius Olsen Southfield	313-354-2181
NY	Daner-Hayes Rochester	800-225-8760
PA	Tinius Olsen Pittsburgh	412-344-2900
TX	Techsas Inc Houston	713-589-2323
WA	Measurements Inc Fredericksburg	703-373-5520
WA	Hart-Latimer Assoc Edmonds	206-774-8901
FR	Calibration Can Ltd Hamilton ON	416-689-8793

TITCHENER & CO E H 24 TITCHENER

PL BINGHAMTON NY 13902	
TXW 510-252-1985	607-772-1161

TIW SYSTEMS INC 1284 GENEVA DR

SUNNYVAL CA 94089 TWX 346352	408-734-3900
R WELLINS ENG 35	
CA MC Assoc San Jose	408-446-4100
CA RF Assoc Los Angeles	213-478-1586
FL EME Melbourne	305-259-2711
NY RF Elctns Sales Melville	516-420-8890
TX Taco Products Dallas	214-644-6010

T M SYSTEMS INC 25 ALLEN ST

BRIDGEPORT CT 06604	203-366-4571
I SHULDMAN EMP 40 ENG 6 \$1,000-\$2,500K	

TNR TECHNICAL INC 45 JEFFRYN

BLVD DEER PARK NY 11729	516-242-4800
R CALVERT EMP 45 ENG 2 \$2,500-\$5,000K	
ADV PG 31	

FL	TNR Technical Altamonte Springs	1-800-346-0601
FL	TNR Technical Orlando	305-767-2411

TOBE DEUTSCHMANN LABS INC

550 TURNPIKE ST CANTON	
MA 02021 TWX 92-4427	617-828-3366
T DEUTSCHMANN JR EMP 40 ENG 10	

TODD PRODUCTS CORP 50 EMJAY BLVD

BRENTWOOD NY 11717	
TXW 510-227-4905	516-231-3366
F SPOSATO EMP 250 ENG 8 OVER \$10,000K	

AL	R W Mitscher Co Huntsville	205-882-6050
AZ	Thorson Desert States Scottsdale	602-998-2444
CA	DePierre & Associates San Diego	619-578-2555
CA	Quantum Coefficient Systems San Jose	408-942-1070
CO	Waugaman Assoc Wheat Ridge	303-423-1020
FL	R W Mitscher Co Boca Raton	305-368-3841
GA	R W Mitscher Co Lawrenceville	404-923-3239
IL	Coombs Assoc Arlington Hgts	312-439-9810
IN	E T Kaul Assoc Indpls	317-888-6187
IA	Coombs Assoc Cedar Rapids	319-362-4116
MD	Scientific Associates Baltimore	301-321-1411
MA	Northeast Repps Hingham	617-749-8700
MI	Electro Sales Assoc Portage	616-323-2416
MN	RK Sales Assoc Mnpls	612-786-5713
MO	AME Sales St Louis	314-965-1779
NJ	Rical Assoc Ridgefield	201-945-5250
NM	Thorson Desert States Albuquerque	505-293-8555
NY	Nycorn Inc E Syracuse	515-437-8343
NC	R W Mitscher Co Raleigh	919-848-0941
OH	Thompson & Assoc Dayton	513-435-7733
TN	R W Mitscher Co Johnson City	615-929-7258
UT	Waugaman Assoc Salt Lake City	801-261-0802
VA	Scientific Assoc Fairfax	703-385-0600
WA	Venture Electronics Bellevue	206-454-4594
WI	Coombs Assoc Milwaukee	414-351-6123

TODD SYSTEMS INC 54 ASH ST

YONKERS NY 10701	914-963-3400
R CANNATA EMP 60 ENG 3 \$500-\$1,000K	

DISTRIBUTORS

AL	Irving Rippis Co Mobile	205-432-3068
CA	Aris Co San Francisco	415-550-8605
CT	Park Distributors Bridgeport	203-366-7200
FL	Gay Mar Co Miami	305-371-0765
IL	Irv Wolfson Co Chicago	312-267-7828
LA	Trestman Supply New Orleans	504-561-8590
MD	Albee Sales Bethesda	301-897-8088
MI	Sozio's Revere	617-547-6900
NY	H L Dalis Inc LIC	212-361-1100
NY	Gelb Sales Co New York	212-475-7940
PA	H & Z Appliance Phila	215-922-2500
TX	Western Appliance Houston	713-869-6671
WA	Pearl Electronics Seattle	206-622-6200

TOKO AMERICA INC 1250 FEEHANVILLE

DR MT PROSPECT IL 60056	
TXW 0724372	312-297-0070
T REISZ EMP 50 ENG 5 OVER \$10,000K	
IL	Esco Assoc Chicago..... 298-5310
MA	J & W Electronics Mansfield..... 617-339-5372
MN	Digi-Key Corp Thief River Falls, ... 218-681-6674

TOPAZ INC 9150 TOPAZ WAY

SAN DIEGO CA 92123	
TXW 910-335-1556	619-569-7982
D MATTHEWS EMP 490 ENG 40 OVER \$10,000K	

AL	Sesco Birmingham	205-988-8304
AZ	BFA Scottsdale	602-994-5400
CA	G Dennis Torrance	213-328-9411
CA	C Korsmo San Diego	619-279-0831
CO	BFA Englewood	303-771-7474
FL	Sesco St Petersburg	813-576-6991
GA	Sesco Atlanta	404-458-6423
HI	Industrial Electronics	808-533-6095
IL	J Farrell Oak Brook	312-789-2270
LA	Sesco Baton Rouge	504-928-4951
MA	B Niemann Brantree	617-848-1110
MI	K Duika Troy	313-583-6119
MO	J Greason St Louis	314-849-1500
NJ	B Fosque Englewood	201-894-0739
NM	BFA Albuquerque	505-292-1212
NY	F Eigenrauch New York	201-365-1188
NY	R Dellapelle Dewitt	516-446-5800
NC	Sesco Cary	919-467-7482
OH	R Hill Dayton	513-433-9642
OK	Sesco Tulsa	918-622-3868
PA	J E Cuesta Valley Forge	215-265-5800
SC	Sesco Greenville	803-297-8306
TN	Sesco Knoxville	615-588-5455
TX	Sesco Houston	713-999-3510
UT	BFA Salt Lake City	801-265-1771
WA	Underwood-Hanify Bellevue	206-643-1793

TOPFLIGHT CORP BOX 2847 YORK

PA 17405 TWX 510-657-4849	717-843-9901
J DANSER EMP 200 ENG 4	
CA P Wynman	714-670-2171
MA B Barbieri	617-482-1583

TORAD COIL CO INC 283 LINDEN RD

WAYNE NJ 07470	201-835-6195
M GUPTA EMP 20 ENG 6	

TORELCO INC 14 PAINE AV BOX 108

IRVINGTON NJ 07111	201-374-8641
S COOK EMP 23 ENG 1 \$500-\$1,000K	

TORIT DIV DONALDSON CO INC

BOX 1299 MINNEAPOLIS	
MN 55440	612-887-3900
EMP 200 ENG 10 OVER \$10,000K	

AL Brownlee-Morrow Engr Co

	Birmingham	205-991-7222
AZ	G L Jackson Co Phoenix	602-279-6237
CA	C Cannon Torrance	213-373-9878
CA	J Stockton Danville	415-837-7992
CO	Clint Helton Co Denver	303-320-5741
GA	K Hofmann Atlanta	404-455-9128
IL	Lane A Peterson Co Loves Park	815-633-4949
IN	T Morales Indpls	317-259-8326
KY	D Davidson Dayton	513-898-9500
LA	John H Reed Co Shreveport	318-865-3514
MD	P O'Connell Timonium	301-823-1522
MA	Nauset Engr & Equip Inc Lincoln	617-259-0160
MI	G Anderson Brighton	313-227-3008
MN	Pearson Assoc Mnpls	612-920-6016
NE	Anderson Bros Eng Omaha	402-333-5990
NJ	Indepol Filtration Cresskill	201-568-7095
NY	H Parker Skaneateles	315-685-6831
NC	Edw J Stone Co Clover	803-831-2141
OH	J Zeis Bedford Hts	216-232-8455
PA	L Hajias Paoli	215-296-9440
TN	Jones & Sweeney Inc Memphis	901-682-6655
TX	B Foster Richardson	214-669-9488
UT	Sales Engr Co Inc SLC	801-485-3721
WA	J Peterson Redmond	206-883-3322
WI	R Doneff Milwaukee	414-327-6960

TORK INC 1 GROVE ST MT VERNON

NY 10550 TWX 131447	914-664-3542
P MONTEAGUDO EMP 150 ENG 6 OVER \$10,000K	

AL	J E Heusser Agency Birmingham	205-836-3896
AZ	Hart & Assoc Phoenix	602-271-0333
AR	RT Electrical Sales N Little Rock	501-771-0267

CA	New West Agency Los Angeles	213-921-6812
CA	Gateway Electrical Sales San Francisco	415-648-8300

CO	J R Schmidt & Assoc Denver	303-778-1752
CT	Ray Zucco Co Wilton	203-762-0064
FL	C & S Sales Orlando	305-894-5232
GA	Charles Woodyard & Assoc Atlanta	404-455-3082
HI	Sunburst Designs Honolulu	808-847-1960
IL	Electri-Agency Chicago	312-439-5030
IN	Roth-Mooney Elect Agency Indpls	317-298-2940
IA	Jerry Bunch Elect Sales Des Moines	515-287-7057
KS	Walker-Loudermilk Kansas City	816-483-8200
KY	Richard Esterle Co Louisville	502-895-2906
LA	General Power & Control New Orleans	504-733-7340

ME	Wayne Gerry Portland	207-772-8406
MD	Agency Group Baltimore	301-773-9292
MA	North Coast Sales Boston	617-344-1007
MI	McDonough & Assoc Detroit	313-425-3500
MN	MR Minneapolis	612-331-2457
MS	General Power & Control Jackson	504-733-7340
MO	Jim Erlinger Co St Louis	314-997-7080
NE	Jerry Bunch Elect Sales Omaha	402-592-0519
NJ	R John Brask Corp Chatham	201-635-8385
NM	Sales Co Albuquerque	505-884-2411
NY	Warshaw Electric Co New York	718-525-8150
NY	Leslie Osterman Assoc Syracuse	315-437-7750
NC	Cushman-Whiting Assoc Charlotte	704-523-3312
OH	Larry Burdick Sales Cincinnati	513-941-6603
OK	Huemmer O K Inc Okla City	214-438-5353
PA	Jacobson-Rodger Assoc Philadelphia	215-657-4300

TN	The Light Source Nashville	615-256-0242
TX	Ampco Houston	713-869-6181
UT	G T Sales Salt Lake City	801-268-2551
VA	J D Hudson Co Richmond	804-282-1864
WA	Electrical Agents NW Seattle	206-762-3314
FR	Luis M Arsuaga San Juan, PR	809-781-8025

TOROID CORP OF MARYLAND

OH J N Bailey Assoc New Lebanon	513-687-1325
PA Jadelectronics Birchrunville	215-296-3800
TX Oeler & Menelaides Dallas	214-361-8876
TOROTRON CORP 519 S FIFTH AVE	
MT VERNON NY 10550	914-664-2050
O ZANGER	
TORPEY CONTROLS & ENGINEERING LTD	
2220 MIDLAND AV UN 98	
SCARBOROUGH ON M1P3E6	416-298-7788
\$100-\$250K	
NJ H M Holzberg Assoc Sea Bright	201-530-8555
TX G P Enterprises Arlington	817-467-0051
TORQ CORP 32 W MONROE ST	
BEDFORD OH 44146	216-232-1880
L SEABECK EMP 70 ENG 4 \$2,500-\$5,00K	
TORWICO ELECTRONICS INC	
410 OBERLIN AVE S LAKEWOOD	
NJ 08701 TWX 710-723-8343	609-364-1800
S KARR EMP 250	
CA KCE Corp El Cajon	619-588-1198
CA Long & Assoc Burlingame	415-347-1020
FL Gra-Mar Inc Orlando	305-658-1971
IN Patco Assoc Noblesville	317-877-5986
IA ENSCO Rep Davenport	319-366-6600
KS ENSCO Rep Wichita	316-683-1070
MD Warrington & Assoc Riderwood	301-823-8759
MA Northeast Repts Hingham	617-749-8700
MO ENSCO Rep Maryland Hts	314-423-3935
NJ BGR Assoc Marleton	609-983-1020
NY Trionic Assoc Great Neck	516-466-2300
NY Lynn Assoc Buffalo	716-631-0054
OH Eljay Assoc Copley	216-666-3774
OR Abacus Sales Portland	503-777-8111
PA Lynn Assoc Wexford	412-935-1466
TX Kite Elects Sales Co Irving	214-438-9336
TOUCH-PLATE INTERNATIONAL INC	
16530 GARFIELD AVE PARAMOUNT	
CA 90723	213-636-8171
J HAPPE EMP 40 ENG 2 \$1,000-\$2,500K	
AZ Norman Brim Co Phoenix	602-244-8668
CA Power Sales Newport Bch	714-673-4445
CA Lipscomb Lgt Sales San Diego	714-223-5503
CO Electro Sales Lakewood	303-232-1379
IL Potter-Weil Co Chicago	312-528-6800
NE Illuminating Sales Omaha	402-397-3122
NJ Orens & Assoc Westwood	201-261-9099
NC Watson Sales Charlotte	704-364-6455
OH Western Reserve Lgt Chesterland	216-729-1921
TX Techna Marketing Houston	713-224-2226
TX Edwin Jones Co Dallas	214-361-4000
UT J R Christensen S L C	801-486-0031
VA Witaker Security Springfield	705-941-6947
TOWER CHEMICAL CORP BOX 3070	
PALMER PA 18043	215-253-6206
M PRINCIPATO EMP 20 ENG 1	
TOWER MFG CORP 25 RESERVOIR AVE	
PROVIDENCE RI 02907	
TXW 710-381-6605	401-467-7550
L POTTER EMP 150 ENG 2 \$5,000-\$10,00K	
CA Electra Tec West Covina	213-964-9772
FL Newell-Hynes Assoc Ft Lauderdale	305-761-1113
IL Midwest Warehouse Corp	
Schiller Pk	312-678-6663
KS Thunderbird Tech Sales Wichita	316-684-3941
MA Wood Sales Corp Needham Hts	617-444-1601
MI Engineered Components Brooklyn	517-592-3236
MO Thunderbird Tech Sales	
Maryland Hts	314-567-6488
NY Seidel Assoc Roslyn	516 621-1117
NC Peter D Edquist & Co Charlotte	704-525-6295
OH Engineered Components Cincinnati	513-474-2849
PA R T Pearson Sales Abington	215 887-0186
TN Groover & Assoc Franklin	615-794-6344
FR Andy Baumen Assoc Ltd Mississauga	
ON	416-828-2600
TRACEWELL ENCLOSURES INC	
7032 WORTHINGTON GALENA RD	
COLUMBUS OH 43085	614-846-6175
TRA-CON INC 55 NORTH ST MEDFORD	
MA 02155	617-391-5550
A SWARTZ EMP 70 ENG 5 \$1,000-\$2,500K	
CO Cristee-Meade Co Lakewood	303-423-4822
GA Southeastern Industrial	
Sales Augusta	404-724-0715
IN Emrtronics Supply & Engr Indpls	317-899-2333
NY W J Ferenczy Assoc Hamburg	716-648-4193
OH Electro Enterprises Madison	216-428-2078
TX C J Garvey Co Richardson	214-234-3371
WA Krippner & Assoc Mukilteo	206-743-3579
DISTRIBUTORS	
AZ Hardware & Metal Specialties	
Tucson	602-623-8631
AZ American Adhesive & Rubber Tempe	602-968-7845
CA K R Anderson Co Sunnyvale	408-736-6730
PA Air-Draulics Philadelphia	215-457-1940
TX Gribble Indus Sales Houston	713-668-9457
VA Cox Sales Co Roanoke	703-345-2636
WI Ellsworth Systems Milwaukee	414-354-3800
TRACOR INC 6500 TRACOR	
LA BLDG 27 AUSTIN TX 78721	
TXW 910-874-1366	512-929-2051
J MERRIT EMP 300 ENG 10 OVER \$10,00K	
DISTRIBUTORS	
TX Hamilton/Avnet Austin	512-837-8911
TX Hall Mark Austin	512-258-8848
TX TTI Fort Worth	512-478-8612
TX Arrow Electronics Austin	512-835-4180
TX Kierulff Elect Austin	512-835-2090

TX EPC Austin	512-339-1131
TX Schwebel Elect Austin	512-458-8253
TX Harrison Equipment Austin	512-458-3555
TX Pioneer Elect Austin	512-835-4000
TRAK MICROWAVE CORP 4726	
EISENHOWER BLVD TAMPA	
FL 33614 TWX 810-876-9140	813-884-1411
T ROBERTS OVER \$10,00K	
AL Magaro & Assoc Huntsville	205-882-0827
CA RL Components Malibu	213-456-9021
CA Disman Bakner Mt View	415-969-3010
CO W H Howard Assoc Greeley	303-426-3499
FL Jerry Williams Inc Melbourne	305-259-7700
GA Magaro & Assoc Atlanta	404-451-8862
IL Dekotech Inc Franklin Park	312-455-5100
IN TX Sales Indiana Inc Ft Wayne	219-489-4447
IA J R Sales Eng Inc Cedar Rapids	319-393-2232
MD M Lader Co Columbia	301-730-1554
MA Bee Assoc Andover	617-475-2124
NJ Ascor Elctns New Rochelle	914-235-8838
NY ASCOR Elctns New Rochelle	914-235-8838
NY R & D Assoc Liverpool	315-457-0100
NC M Lader Co Raleigh	919-828-3870
PA M Lader Co Lafayette Hill	215-825-3177
TX Cain & Co Dallas	214-247-3901
UT Effective Sales S L C	801-266-9617
WA Datacom Assoc Seattle	206-285-2525
TRAK SYSTEMS DIV TRAK MICROWAVE	
CORP 4726 EISENHOWER BLVD	
TAMPA FL 33614	
TXW 810-876-9140	813-884-1411
D FOSSLER OVER \$10,00K	
AL Magaro & Assoc Huntsville	205-882-0827
AZ J Smith Assoc Phoenix	602-267-0981
CA L L Stokes Inc San Diego	619-452-1600
CA Disman Bakner Mtn View	415-969-3010
CO W H Howard Assoc Greeley	303-426-3499
FL Bass Assoc Sarasota	813-922-9538
GA Magaro & Assoc Atlanta	404-451-8862
MD Blackwood Assoc Annapolis	301-268-3669
MA High Tech Sales Cohasset	617-653-3838
NM J Smith Assoc Albuquerque	505-265-3406
NC Magaro & Assoc Greensboro	919-294-4783
OH TX Sales Ft Wayne	219-489-4447
PA Rabal-Assoc Huntingdon Valley	215-947-4825
TX John T Houston Assoc Arlington	817-265-2931
WA Tasco Inc Bellevue	206-453-1414
FR Dage Corp Stamford CT	203-324-3123
TRANEX INC SUB MICRO-MASK INC	
750 PASTORIA SUNNYVALE	
CA 94086	408-732-0441
G YOUNG EMP 150 ENG 6 \$5,000-\$10,00K	
AZ EDP Assoc Scottsdale	602-991-6119
CA Tchep Components Lomita	213-539-9070
CA Ross Mktg Santa Clara	408-988-8111
CO Tranex Inc Colorado Springs	303-576-7994
OR L-Squared Ltd Beaverton	503-644-8555
TX Reprmasters Dallas	214-892-0148
UT Aspen Sales Inc SLC	801-467-2401
TRANSMERICA DELAVAL ADEL	
FASTENERS DIV BOX 7727	
HUNTINGTON WV 25778	
TXW 710-931-1903	304-522-7345
N PINKERTON EMP 100 ENG 6	
CA Transamerica Delaval-Adel	
Sante Fe Springs	213-868-3746
CT Transamerica Delaval-Adel	
Rocky Hill	203-563-3737
GA Transamerica Delaval-Adel	
Atlanta	404-262-3007
IL Transamerica Delaval-Adel	
Westchester	312-681-4806
MI Transamerica Delaval-Adel	
Madison Hts	313-585-8200
OH Transamerica Delaval-Adel	
Cleveland	216-333-1805
PA Transamerica Delaval-Adel	
Horsham	215-674-1696
TX Transamerica Delaval-Adel	
Arlington	817-860-4242
TRANSMERICA DELAVAL INC	
GEMS SENSORS DIV COWLES RD	
PLAINVILLE CT 06022 TWX 99306	203-677-1311
W MCDONALD EMP 150 ENG 4 OVER \$10,00K	
AZ Southwest Controls Scottsdale	945-1717
CA Transamerica Delaval Santa	
Fe Springs	868-2268
CA Transamerica Delaval Burlingame	342-3350
CO Frontier Ind Cont Denver	534-5063
CT Transamerica Delaval Rocky Hill	533-3737
FL State Instr Inc Tampa	933-7676
GA Transamerica Delaval Atlanta	261-7063
HI Berkley Engrg Honolulu	845-9377
IL Transamerica Delaval Westchester	681-4806
LA Aries Marine & Ind Sales	
Metairie	835-2549
MI Transamerica Delaval Madison Hts	585-8200
MN Hartfil Co Mnpls	835-0555
MO Neff Power Inc St Louis	727-6200
NJ Transamerica Delaval Elmwood Pk	794-8315
NC Electro Systems Inc Charlotte	525-2421
OH Transamerica Delaval Cleveland	333-1805
PA Transamerica Delaval Pittsburgh	343-5666
TX Transamerica Delaval Houston	448-1337
UT Specialty Sales W Jordan	561-0222
WA Transamerica Delaval Seattle	241-8812
WI Transamerica Delaval Greenfield	321-1103
FR De Laval Turbine Can Ltd	
Mississauga ON	678-6141
DISTRIBUTORS	
IL R R Floody Co Rockford	399-1931
MI R H Jackson Co Troy	689-9950
NJ Truesdell Co Skillman	466-3200

TRANSMERICA DELAVAL INC	
WIGGINS CONNECTORS DIV	
5000 TRIGGS ST LOS ANGELES	
CA 90022 TWX 910-321-3573	213-269-9181
R WHITE EMP 250 ENG 8 OVER \$10,00K	
CA R Dube Sante Fe Springs	213-868-3746
CT R Migliaccio Rocky Hill	203-563-3737
GA E Ray Atlanta	404-262-3007
MO B Wilp St Louis	314-567-4005
OH C Clatty Cincinnati	513-489-5305
PA D Watson Horsham	215-674-1696
TX N Pugh Arlington	817-860-4242
WA T Noel Bellevue	206-241-8812
TRANS AMERICAN TRANSFORMER INC	
142 PECONIC AVE MEDFORD	
NY 11763	516-654-1880
M EICHER EMP 30 ENG 2	
NY Bytec Repts Wantagh	516-781-7400
PA Technical Inst Sales Co Phila	215-836-2222
TRANSCO PRODUCTS INC BOX 6003	
CAMARILLO CA 93011-6003	
TXW 910-343-6469	805-987-2201
R WILLIAMS EMP 400 ENG 65 OVER \$10,00K	
CA Transco Prods Sunnyvale	732-6646
CA Transco Prods Mission Viejo	643-0506
FL Bishop Electronics Satellite Bch	768-9353
MD Vincent Pirro Ind Ellicott City	461-2525
MA Sequel Assoc Tewksbury	851-4010
MO Transco Prods Florissant	837-5249
NY Robt L Diamond Inc Bayside	423-7330
PA Transco Prods Holland	322-1883
TX Transco Prods Richardson	699-1951
WA Poggi Assoc Bellevue	454-2026
TRANSDUCER SYSTEMS INC	
1510 DELP DR BOX 341	
KULPSVILLE PA 19443 TWX 846078	215-256-4611
F HARRIS EMP 240 ENG 12 \$5,000-\$10,00K	
CA Nelson Elctn Sales Santa Clara	408-980-1950
MN Gil Sales Mendota Hts	612-454-3086
TRANSDUCERS & SYSTEMS INC	
NORTH LAKES RD BOX 185	
TWIN BRANFORD CT 06471	
TXW 710-452-3092	203-481-5721
CA Gado Inst Sales Mtn View	415-961-2222
CA Transducer Systems Westminster	714-988-1767
CT Tri-Com Assoc Washington	203-563-2241
GA PAR Assoc Atlanta	404-391-9117
IL Marsland Assoc Des Plaines	312-298-2620
MA Tri-Com Assoc Burlington	617-272-8163
MI O'Hara Assoc Mt Clemens	313-791-7140
NJ Markey Instrumentation	
Cherry Hill	609-667-3809
NY TAE-REP Whitney Point	607-692-3705
OH Flisan Assoc Dayton	513-278-4216
TX Electric Control Assoc	
Lewisville	214-221-3143
TRANSENE CO INC ROUTE 1 ROWLEY	
MA 01969	617-948-2501
D MONDALO EMP 32 ENG 5	
OR Gaston Sales Co Portland	503-645-2009
TX Scott Tech Sales Co Dallas	214-352-7698
TRANSFORMATION ELECTRONICS CORP	
170 WILBUR PL BOHEMIA	
NY 11716 TWX 510-222-0972	516-563-1117
D BAUM	
TRANSPENSORY DEVICES INC	
44060 OLD WARM SPRINGS BLVD	
FREMONT CA 94538 TWX 882083	415-490-3333
M DUNBAR EMP 300 ENG 10	
TRANSCOIL INC TROOPER RD	
WORCESTER PA 19490	
TXW 510-660-0132	215-277-1300
P SCHOENACHER EMP 240 ENG 20 OVER \$10,00K	
TRANSISTOR DEVICES INC	
85 HORSEHILL RD CEDAR KNOLLS	
NJ 07927	201-267-1900
J GILSON EMP 500 ENG 20 OVER \$10,00K	
AL Spada Assoc	205-533-2732
AZ WJM Sales	602-888-4847
CA FLW Inc Costa Mesa	213-860-4895
FL Lawrence Assoc Boca Raton	305-368-7373
IL Scott Assoc Elmhurst	312-279-5681
MD Dyna Rep Co Alexandria VA	703-354-1222
MA E F Deffino Inc Lexington	617-862-1118
MO The Beams Co	515-255-1148
NJ Hansen Assoc Ridgewood	201-652-7055
NY Advanced Components	315-699-2671
OH SKM Ashey Assoc	216-461-0826
OR Controltek Sales Ltd Portland	503-641-0787
PA Omni Sales Erdheim	215-233-4800
TX Jim Hughes Co Lewisville	817-430-1683
FR Singer Prods Co Westbury	516-683-3000
TRANSISTOR SPECIALTYS INC	
3 ELECTRONICS AVE DANVERS	
MA 01923 TWX 701-347-0309	617-774-8722
R BLAND EMP 30 ENG 5	
OH Stegman Blaine Mktg 8444 Winton Rd Cinn	
TRANSMAGNETICS INC 210	
ADAMS BLVD FARMINGDALE	
NY 11735 TWX 510-224-6420	516-293-3100
F HABER	
ME FME 3 Inc Melbourne	305-259-2711
MI Lowell Wendt Mktg Livonia	313-464-2722
MO Kelco St Louis	514-576-4111
TX Seaton Corp Carrollton	214-380-0414
WA Scientific Devices NW Bellevue	206-747-5169

TRANS-MET ENGINEERING INC
601 S PALM ST LA HABRA
CA 90631.....213-691-2266
R OTTE EMP 25 ENG 3 \$1,000-\$2,500K
NC W K Hile Co Matthews.....704-847-9125

DISTRIBUTORS

AL Burnette Technometrics
Huntsville.....205-533-9073
AZ Crown Systems Phoenix.....602-274-3180
CA Marchi Assoc Redwood City.....415-364-3411
CT A J Abrams Co Westport.....203-226-4225
HI C Burgess Assoc Milliani.....808-623-3118
IL Thermo Kenge Inc Mundelein.....312-949-8070
MA Daner-Hayes Wayland.....617-655-0888
MI Nova Engineering St Joseph.....616-429-7044
NJ Saddle Brook Control Sys
Saddle Brook.....201-794-9588
OH Geo Drysdale Assoc Cincinnati.....513-528-2200
PA Excom Glenside.....215-855-1715
TX Haltom Co Houston.....713-782-5625

TRANSMETRICS INC 5325 NAIMAN
PKWY SOLON OH 44139
TWX 810-427-2059.....216-248-2229
EMP 15 ENG 2 \$500-\$1,000K
ADV PG 486

CA Crown Electronics No Hollywood.....213-877-3550
CA Johnson Assoc Santa Clara.....408-984-4626
CT JBL Assoc Hamden.....203-281-3161
FL Quantum Msmts Lakeland.....813-859-1926
GA Quantum Msmts Smyrna.....404-351-3531
IL Dynamic Sales Co Urbana.....217-344-3551
KS Aero Hill Sales Wichita.....316-682-2052
MD Mid States Mktg Inc Baltimore.....301-583-8252
MI Dietrich & Assoc Warren.....313-751-4990
NH Compline Co Chester.....603-887-3515
NJ Langston Instruments Midland Pk.....201-848-0288
NC Quantum Msmts Chapel Hill.....919-933-7408
OH Dietrich & Assoc Cleveland.....216-781-1855
PA Dietrich & Assoc Pittsburgh.....412-892-2992
TX Technical Products Inc Dallas.....214-357-9603
VA Mid States Mktg Inc Springfield.....703-569-2700
WI Icor Components Milwaukee.....414-453-0822

TRANS NANTAL FABRICATORS
355 DALZIEL RD LINDEN
NJ 07036.....201-862-4815
A LEBOWITZ EMP 20 ENG 1 \$1,000-\$2,500K
AL J Grimes Birmingham.....205-942-7555
IL J Nielson Chicago.....312-622-1060
IN T McCaw Noblesville.....317-896-3000
MA Nordstrom Assoc Shrewsbury.....617-842-8646
MI M Nelson Howell.....517-546-7931
OH L Saver Garfield Hts.....216-581-2826
WI W White Kenosha.....414-658-8417

TRAN SPECTRA INC RT 1 BOX
27A-AIRPORT RD GREENFIELD
TN 38230.....901-235-2218
D COLE EMP 25 ENG 1
CT New England Elect Sales.....203-583-3650
MA Greene-Shaw Co Newton.....617-969-8900
MI Norwood Scroggs Co Jackson.....517-750-1170
MN Electronic Sales Agency
Bloomington.....612-884-8921
OH Electro-Com Dayton.....513-898-5140

DISTRIBUTORS

CA Kelex-Eric Elect Irvine.....714-855-4155

TRAN-TEC CORP BOX 1044 COLUMBUS
NE 68601.....402-564-2748
C SCHROEDER EMP 45 ENG 1 \$1,000-\$2,500K
ADV PG 210

CA Sierra-Pacific Engr Tustin.....714-731-3411
CO Pierce-Robbins & Assoc Golden.....303-431-6011
FL Russell Assoc Winter Pk.....813-526-1134
GA Russell Assoc Atlanta.....404-255-8422
IN Scott Elctns Indpls.....317-897-9976
IA ARD Sales Co Cedar Rapids.....319-366-8733
MD Russell Assoc Bel Air.....301-879-9180
MA H C Jappe Co Wakefield.....617-245-9359
NJ Russell Assoc Fair Haven.....201-747-0600
NY Naylor Elec Co Cazenovia.....315-656-8174
NY Russell Assoc Bay Shore.....516-666-6500
OH Del Steffen Assoc Cleveland.....216-461-8333
TX Russell Assoc Dallas.....214-699-0383
WI Stumm Sales Mequon.....414-241-8414

TRANSWAVE CORP BOX 489
CEDAR VALLEY VANDERBILT
PA 15486 TWX 902992.....412-628-6370
J ZIMMERMAN EMP 50 ENG 4

DISTRIBUTORS

FR Blenkhorn & Sawle St Catharines
ON.....416-684-9251
FR Romark Ltd Victoria BC.....607-385-2755

TRENT INC 201 LEVERINGTON AV
PHILADELPHIA PA 19127.....215-482-5000
G MCCLAUGHLIN EMP 50 ENG 3 \$2,500-\$5,000K
CT Roy Sawtell Assoc Westfield.....413-562-6627
MO Combustion Kinetics Corp
St Louis.....314-781-9696
NJ Tower Sales Eng Paramus.....201-285-2878
NC Penn Co Charlotte.....704-847-4426
PA E F Ewing Inc Ft Washington.....215-542-8640
TX Stout-Jennings-Schmidt Garland.....214-272-5585
WI Oconomowoc Engrg Oconomowoc.....414-567-9796
FR Amos & Assoc Mississauga ON.....416-278-4050

TRIAD-UTRAD 305 N BRIANT
HUNTINGTON IN 46750.....219-356-6500
TWX 810-333-1532
D MILLER EMP 850 ENG 12 OVER \$10,000K
AK H J Lang & Assoc Anchorage.....279-5741
AZ Steve Fisher Assoc Phoenix.....602-247-7865
AR J Y Schoonmaker Co Little Rock.....501-375-2168

CA Tracy Elec Sales Chino.....714-591-4736
CA Logan Sales Co Santa Clara.....408-496-0660
CO Lindberg Co Denver.....303-758-5863
CT Schmitt Ind Mktg Orange.....203-799-2145
FL HHP Maitland.....305-831-2474
GA EMF Atlanta.....404-948-6023
HI Hawaii Elect Svcs Honolulu.....808-845-8207
IL Joel Wasserman Assoc Wilmette.....312-256-3566
IN F E Kahsar Sales Indpls.....317-888-8396
KS Thomas Dowell Co Overland Park.....913-648-7373
MA Bay Colony Farmingham.....617-620-0607
MN Electronic Component Sales Mnpls.....612-933-2594
MO Thomas Dowell Co St Louis.....314-849-4234
NJ Champion Elect Sales Medford.....609-983-0932
NY Marchese Marsey & Barden
Inc Rochester.....716-544-4300
NY Schmitt Industrial Mktg
W Hempstead.....516-486-3510
OH Frank Kahsar Co Cincinnati.....513-922-3133
OK J Y Schoonmaker Co Tulsa.....918-446-0373
OR Jas J Backer Co Portland.....206-297-3777
TX J Y Schoonmaker Co Dallas.....713-349-1650
WA Jas J Backer Co Seattle.....206-285-1300

TRIAD-UTRAD DIV MAGNETEK INC
305 N BRIANT ST HUNTINGTON
IN 46750 TWX 810-333-1532.....219-356-7100
D MILLER EMP 700 ENG 10 OVER \$10,000K

TRIANGLE MICROWAVE INC
31 FARINELLA DR EAST HANOVER
NJ 07936 TWX 710-986-8202.....201-884-1423
T HURLEY EMP 160 ENG 25 OVER \$10,000K
AZ PTL Electronics Mesa.....602-892-9329
CA Allis Assoc Cupertino.....408-252-2883
CA Electro Rep Sherman Oaks.....818-905-5037
CO Howard Assoc Denver.....303-426-3499
FL Jerry Williams Inc Melbourne.....305-259-7700
GA Beacon Atlanta.....404-256-9640
MD Applied Eng Consultants
Beltsville.....301-595-5393

MA TRM Assoc Groton.....617-649-6966
MO AME Sales St Louis.....314-965-1779
NM Mayco Albuquerque.....505-299-4202
NY R & D Assoc Liverpool.....315-457-0100
NY Bertram D Aaron & Co Greenvale.....516-621-0630
NY Worldwide Tech Rsch Corp Syosset.....516-496-8256
PA Robt Meyers Assoc Melrose Park.....215-224-1663
TX McBride Scientific Sales Garland.....214-494-5000
FR Microwave Intl Corp Boca Raton.....305-391-7475
FR Electrodesign Ltd Lachine PQ.....514-636-4838

TRICO MFG CORP 1235 HICKORY ST
PEWaukee WI 53072.....800-558-7008
J KIEFFER EMP 38 ENG 3
FR IDI Elec Canada Ltd Ajax Ont.....416-683-3400
FR World Wide Imp/Exp Svcs
Central Islip NY.....516-348-7799

TRIDAK DIV INDICON INC
1120 FEDERAL RD BROOKFIELD
CT 06804 TWX 710-456-1372.....203-775-1287
F HEROT EMP 20 ENG 4 \$1,000-\$2,500K

TRIGON INDUSTRIES INC 100
S MILPITAS BLVD MILPITAS
CA 95035 TWX 910-379-6601.....408-943-8200
G DOTZLER EMP 50 ENG 8
AZ Luscombe Engr Co Scottsdale.....602-949-9333
CA John Ireland Assoc Newport Beach.....714-759-1581
CA Technology Sys Spec San Jose.....408-998-8855
CO Andrews Assoc Littleton.....303-797-1507
CT McBar Assoc Shelton.....203-865-4376
FL Techrep St Petersburg.....813-577-2779
IL Len Feider Assoc Wheaton.....312-665-9070
KS Midtec Assoc DeSoto.....913-441-6565
MA McBar Assoc Waltham.....617-890-0233
MN Technical Engrg Assoc Burnsville.....612-894-7998
MO Midtec Assoc Florissant.....314-837-5200
NM LaBelle Indus Sales El Paso TX.....915-584-5729
NY Towpath Assoc Bolton Landing.....518-668-3127
OH KDF Co Solon.....216-248-8010
OR Topp Eng Sales Portland.....503-244-7265
PA FMR Assoc Churchville.....215-364-3663
TX Alphatec Inc Austin.....512-458-9179
VA FMR Assoc Lake Ridge.....703-494-7630
WA Topp Eng Sales Bellevue.....206-747-5400
WI JM Sales Milwaukee.....414-546-0040

TRIMAX DIV TRUSH 67 ALBANY ST
CAZENOVIA NY 13035.....315-655-3551
M DIELLO EMP 21 ENG 1 \$1,000-\$2,500K
AL Par Marketing Huntsville.....205-837-6534
AZ Cristee Meade Phoenix.....602-996-4878
CA Myco Sales Northridge.....818-886-7101
CO Cristee Meade Lakewood.....303-232-0287
IL KMG Sales Co Chicago.....414-639-9005
IA MSB Assoc Marion.....319-377-6261
KS MSB Assoc Shawnee Mission.....913-432-2131
MI Inter-Comm Inc Grand Blanc.....312-695-0665
MN Kencotronics St Paul.....612-645-7717
MO MSB Assoc St Charles.....314-946-5577
NJ Willgold Sales East Orange.....201-678-7700
OH J C Hofstetter Co Medina.....216-241-4880
PA Giltronics Phoenixville.....215-827-7287
WI KMG Sales Racine.....414-639-9005
FR Tienkay Inc Toronto ON.....416-736-1221

TRIMM INC 400 W LAKE BOX 489
LIBERTYVILLE IL 60048
TWX 728452.....312-362-3700
N CALKINS
NY Win-Cor Elect Sales Manhasset.....516-627-9474
WA Len Jackson Sales Camano Island.....206-387-6767

TRIM-TRONICS INC 67 ALBANY ST
CAZENOVIA NY 13035
TWX 710-541-1530.....315-655-9528
J DOWD EMP 25 ENG 1 \$1,000-\$2,500K
ADV PG 76

AZ Cristee Meade Phoenix.....602-996-4878
CA Melvin Sales Co San Mateo.....415-349-7444
CA HMC Inc Temple City.....213-285-0485
CO Cristee Meade Lakewood.....303-232-0287
FL Stettner Electronics Orlando.....305-291-7756
IL Stettner Electronics Rosemont.....312-671-4208
IN J & B Engineering Ft Wayne.....219-483-2813
IA M-S-B Assoc Marion.....319-377-6261
KS Delltron Co Kansas City.....816-436-6445
MD M Lader Columbia.....202-296-2497
MA Marketing Services Quincy.....617-770-1686
MO Delltron Co St Louis.....314-869-4779
NJ Cooper Assoc Englewood.....201-871-4985
NY Alan Lupton Assoc Rochester.....716-482-7700
NC Carolina Electronics Research
Triangle Pk.....919-549-8239
PA M Lader Lafayette.....215-825-3177
TX Marcom Dallas.....214-352-3840
WA Manon Engineering Kirkland.....206-827-7449
FR Votron Electronics Concord ON.....416-669-9870

TRINETICS INC 55807 CURRANT RD
MISHAWAKA IN 46545-4899.....219-259-8535

TRIO LABORATORIES INC 80
DUPONT ST PLAINVIEW NY 11803
TWX 510-221-1861.....516-349-0400
J CRAWFORD EMP 60 ENG 3 \$2,500-\$5,000K
AZ Thor Engineering Phoenix.....602-437-1463
CA Leddy Assoc Mt View.....415-969-6313
CA Thorson Co Signal Hill.....213-595-0361
FL Gra-mar Inc Orlando.....305-894-3351
IL Kingston Components.....312-359-7990
MD Delmarva Engrg Assoc Severna
Park.....301-647-8007
MA Wayland Sales Natick.....617-655-6080
NJ Power Conversion & Control
Englewood Cliffs.....201-569-0015
NY SHR Inc Corbetsville.....717-967-2607
PA Koeber Assoc Glenside.....215-887-2310
TX Lear Assoc Richardson.....214-281-5388

TRIO-TECH INTERNATIONAL
2040 N LINCOLN ST BURBANK
CA 91504 TWX 194811.....213-846-9200
T MEZO EMP 275 ENG 8 \$5,000-\$10,000K

TRIPLETT CORP/A PENRIL DIV
1 TRIPLETT DR BLUFFTON
OH 45817 TWX 810-490-2400.....419-358-5015
R ANDERSON EMP 17
AZ Sheffer-Kahn Co Phoenix.....602-257-9015
CA Berman-Gravley Cosa Mesa.....714-549-2122
CA Polach & Bensinger Burlingame.....415-697-2525
CO Sterling Payton Assoc Colo
Springs.....303-457-1614
FL Jack Krutek & Assoc Lighthouse
Pt.....305-941-6544
GA Millar Electronics Inc Atlanta.....404-261-6160
IL Geo Pettit Co Berkeley.....312-449-8000
IN Walter W Bieberich Ft Wayne.....219-432-2537
IA SPS Assoc Ltd W Des Moines.....515-225-0607
KS SPS Assoc Ltd Olathe.....913-764-4460
MD Massey Assoc Hunt Valley.....301-833-2039
MI A & D Elctn Sls Grosse Pte Woods.....313-884-1956
MN Hei-Lite Sales Mnpls.....612-861-6051
NJ Masin Esco Englewood Cliffs.....201-569-8868
NM Sheffer-Kahn Co Albuq.....505-345-3591
NY Marchese & Marsey Assoc
Rochester.....716-544-4300
NY Masin Esco Hauppauge.....516-273-3500
NC Millar Elctns Raleigh.....919-787-9564
OH Doffuss-Root & Co Strongsville.....216-238-0300
PA PSA Inc Trevese.....215-245-0513
RI Adams-McGregor Inc Lincoln.....401-726-1300
TX Elcom Marketing Dallas.....214-241-2166
WA New West Mktg Olympia.....206-754-8878
FR Len Finkler Ltd Downsview ON.....416-630-9103

DISTRIBUTORS

AZ Metermaster Phoenix.....602-437-1425
CA Western Elect Sply Glendale.....213-245-1226
CA E I L Inst LA.....213-685-7020
CA Metermaster LA.....213-685-4340
CA Metermaster San Diego.....619-560-4841
CO Metermaster Inst Denver.....303-722-5766
CT E I L Inst Middletown.....203-346-6646
FL Brownell-Electro Orlando.....305-843-6770
FL Kimball Elect Labs Hialeah.....305-822-5792
GA Brownell-Electro Atlanta.....404-762-5181
HI Kems Honolulu.....808-845-6402
IL Meter-Makers Elk Grove Vlg.....312-439-5050
IL Metermaster Itasca.....312-250-0606
IL Pacific Indicator Countryside.....312-352-3500
IN Electro-Lab Svcs Evansville.....812-423-5211
KY Brooks Elect Svc Overland Pk.....913-648-3131
KS E I L Inst Louisville.....502-454-3432
LA Industrial Inst Wks New Orleans.....504-733-8355
MD E I L Inst Sparks.....301-771-1400
MD Pytronix Ind Savage.....301-792-0780
MD Sunshine Scien Inst Baltimore.....301-661-5900
MA E I L Inst Burlington.....617-272-9450
MI Ram Meter Ferndale.....313-398-6767
MN Instrument Control Co Mpls.....612-871-2514
MO ISL Corp St Louis.....314-535-5760
NJ Hosica Labs New Foundland.....201-697-6111
NY Metermod Inst LIC.....718-726-4850
NY Trott Elect Clarence.....704-634-8500
NC Brownell-Electro Charlotte.....716-597-1270
OH Pioneer-Inst Cleveland.....216-587-3600
OH Pioneer- Dayton Dayton.....513-236-9900
OH Weschler Elec Cleveland.....216-238-2550
OK Tri-State Inst Lab Tulsa.....918-836-0286
PA C A M Instrumentation Pittsburgh.....412-963-1885
PA E I L Inst Pittsburgh.....412-731-5230
PA Sunshine Scien Inst Phila.....216-673-5600
TN Brownell-Electro Nashville.....615-889-8230
TN Brownell-Electro Memphis.....901-795-8487
TX Metermaster Garland.....214-271-5671
TX Meters & Inst Corp Houston.....713-644-1631

TX	Straughn Elec Beaumont	409-838-4563
TX	Ultra Inst Labs Dallas	214-357-0297
TX	Quality Inst Labs Houston	713-524-0528
VA	Meter Metrics Richmond	804-275-1431
WA	Eicher-Richards Seattle	206-523-7888
WI	EM Instr Milwaukee	414-272-7799
FR	Electro Meters Scarborough ON	416-438-6555
FR	R H Nichols Co Ltd Downview ON	416-851-8871

TRIPPE MFG CO/TRIPP LITE	
500 N ORLEANS CHICAGO	
IL 60610 TWX 2670290	312-329-1777
K WYMAN EMP 80 ENG 6	

TRIRIDGE CORP 1116 W MAIN ST	
LEESBURG IL 32748	
TXW 810-871-0881	904-728-0799
EMP 80 ENG 3 \$2,500-\$5,000K	

AL	El Tech Inc Decatur	205-353-7899
IL	Trend-Tronics Woodridge	312-985-0626
KY	El Tech Inc Ft Wright	606-331-3495
MA	Omni-Rep Burlington	617-245-4511
MN	Kits Co Hopkins	612-933-1888
NY	Win-Cor Elctn Sales Manhasset	516-627-9474
NY	Nu-Tekneex Mktg Inc Guilderland	518-355-1829
PA	Covert & Newman Co Pittsburgh	412-531-2002
PA	R W Mitscher Co Huntingdon	
	Valley	215-355-4452

DISTRIBUTORS		
CA	Cypress Elctns San Jose	800-538-5112
CA	Cypress Elctns Torrance	800-538-5112

TROMPETER ELECTRONICS INC		
31186 LA BAYA DR WESTLAKE		
VILLAGE CA 91362		
TWX 910-494-1210		818-707-2020
P COX EMP 150 ENG 5 OVER \$10,000K		
ADV PG 118		

DISTRIBUTORS		
NC	Currie Peak & Frazier Mathews	704-846-1702
AL	Currie Peak & Frazier Huntsville	205-536-1506
AZ	Aztec Entrps Phoenix	602-944-9185
CA	ISG Santa Clara	408-980-1166
CA	Knight Co Los Angeles	213-670-2833
CA	Knight Co San Diego	619-571-7903
CO	Aztec Entrps Denver	303-779-5285
CT	Underwood Sales Wethersfield	203-563-3046
FL	Currie Peak & Frazier Orlando	305-565-0843
FL	Currie Peak & Frazier Tampa	813-963-1076
GA	Currie Peak & Frazier Norcross	404-449-7662
IL	Berndt Assoc Chicago	312-283-0713
IN	Berndt Assoc Carmel	317-844-0114

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KS	BAKA Overland Park	913-383-3295
MD	Sel-tronics Lanham	301-731-8080
MA	Underwood Sales Corp Lowell	617-256-8191
MN	Eng'g Prod Assoc Edina	612-835-9022
MO	BAKA Crev Coeur	314-378-4224
NJ	L & M Assoc Elmwood Pk	201-797-0441
NM	Aztec Entrps Albuquerque	505-262-1688
NY	L & M Assoc New York	212-643-6155
NY	T A E Rep Whitney Point	607-692-3705
NY	T A E Rep Rochester	716-586-8710
NC	Currie Peak & Frazier 1212	
	Grove St Greensboro	919-373-0380

NC	Currie Peak & Frazier Greensboro	919-373-0380
OH	Geotronics Inc Richfield	216-659-6100
OH	Geotronics Trotwood	513-252-6700
OR	Evergreen Mktg Grp Beaverton	503-643-8020
PA	L & M Assoc Andalusia	215-245-6658
PA	L & M Assoc Reading	215-775-9559
PA	Geotronics Allison Park	412-487-1770
TN	Currie Peak & Frazier Smyrna	615-459-0743
TX	Milestek Spring	713-376-6776
TX	Milestek Argyle	817-455-7444
UT	Aztec Entrps Ogden	801-621-1655
WI	Berndt Assoc Milwaukee	414-545-8400

TRON-TECH INC 63 SHARK RIVER RD		
NEPTUNE NJ 07753 TWX 132-445		
C BRAND EMP 20 ENG 3 \$1,000-\$2,500K		
AZ	Mar-Tech Assoc Scottsdale	602-994-1285
CA	Dyna Sales Torrance	213-540-5177
CA	Straube Assoc Mt View	415-969-6000
IA	Gassner & Clark Cedar Rapids	319-393-5763
MD	Electronic Mktg Assoc Rockville	301-881-5300
MD	Tritek, Inc Burlington	617-272-4550
NM	IMEC Albuquerque	505-883-9010
NY	Metro Mics Melville	516-433-3333
PA	Electronic Mktg Assoc Plymouth	
	Meeting	215-248-5050
TX	McBride Scien Sales Garland	214-270-6774
FR	RF Microwave Ltd St Laurent, PQ	514-335-2335

TRU-CONNECTOR CORP 245		
LYNNFIELD ST PEABODY MA 01960		
R HOFF EMP 49 ENG 2 \$2,500-\$5,000K		
NY	R D Sherman Inc Fayetteville	315-637-9861
OH	W T Brauer & Assoc Wickliffe	216-943-0601

TRUE DATA CORP 17092 PULLMAN ST		
IRVINE CA 92714		
TWX 910-595-1917		714-979-8482
J GAUSNELL EMP 45 ENG 3 \$2,500-\$5,000K		
CA True Data Corp 15745 Sprig St China		

TRUMETER CO INC 38 W 32ND ST		
NEW YORK NY 10001		
EMP 8 ENG 1 \$500-\$1,000K		
FL	A T Russo Orlando	305-351-3280
GA	J F Slaughter Marietta	404-428-8654
MA	Wilkinson Assoc Westfield	413-568-0858
NJ	J Hunter Bridgewater	201-722-9063
NC	Associated Agents Greensboro	919-292-6508
OH	Sleme Belting & Supply Cleveland	216-232-8266
PA	Webmatic Machinery Co	
	Downingtown	215-269-6511

TRW INC BEARINGS DIV 402		
CHANDLER ST JAMESTOWN		
NY 14701 TWX 91527		
A WALES EMP 2100 ENG 75 OVER \$10,000K		

CA	TRW Bearings Anaheim	714-956-3200
CT	TRW Bearings Plainville	203-747-2771
GA	TRW Bearings Atlanta	404-344-9855
IL	TRW Bearings River Grove	312-452-4300
IN	TRW Bearings Indianapolis	317-849-7080
MI	TRW Bearings Southfield	313-357-7000
MN	TRW Bearings Bloomington	612-854-8098
MO	TRW Bearings Blue Springs	816-226-188
NJ	TRW Bearings Robbinsville	609-587-7700
NY	TRW Bearings Orchard Park	716-662-5159
NC	TRW Bearings No Concord	704-782-3235
OH	TRW Bearings Cleveland	216-861-1150
OK	TRW Bearings Oklahoma City	405-843-2572
PA	TRW Bearings Philadelphia	215-923-0235
TX	TRW Bearings Dallas	214-631-5140
WA	TRW Bearings Seattle	206-329-8385
WV	TRW Bearings Charleston	304-744-1660
FR	TRW Canada Ltd Toronto ON	416-747-6581
FR	TRW Canada Ltd Calgary AB	403-287-2298
FR	TRW Canada Ltd St Laurent PQ	514-332-0952

TRW CAPACITORS 301 WEST O ST		
OGALLALA NE 69153 TWX 484533		
D LIENEMANN ENG 21		308-284-3611

AL	TRW Electronics Huntsville	205-533-7600
AZ	TRW Electronics Scottsdale	602-994-0441
CA	Straube Assoc Mt View	415-969-6060
CO	Straube Assoc Westminster	303-426-0890
CT	TRW Electronics Rowayton	203-853-4466
FL	TRW Electronics Orlando	305-857-3650
GA	TRW Electronics Norcross	404-447-6154
IL	TRW Electronics Chicago	312-693-7730
IN	R O Whitesell & Assoc Indpls	317-359-9283
IA	C Horn & Assoc Cedar Rapids	319-393-8703
KS	Mid Tec Assoc De Soto	913-441-6565
KY	R O Whitesell & Assoc Louisville	502-426-7696
MA	TRW Electronics Westborough	617-870-0745
MI	R O Whitesell & Assoc Southfield	313-559-5454
MN	TRW/ECG Mpls	612-854-6616
MO	John G Macke Co St Louis	314-432-2830
NY	TRW Electronics Rowayton Ct	203-853-4466
NY	TRW Electronics Fairport	716-425-3775
OH	R O Whitesell & Assoc Dayton	513-298-9546
OR	TRW Electronics Tigard	503-620-5032
PA	TRW Electronics Bala Cynwyd	215-667-3400
TN	R O Whitesell Assoc Knoxville	615-694-9476
TX	TRW Elctns Dallas	214-248-8200

UT	Straube Assoc SLC	801-263-2640
VA	TRW Electronics Richmond	809-288-8334
WA	TRW Electronics Bellevue	206-641-9996
WI	TRW/ECG Brookfield	414-784-7773
FR	Renmark Elect Mktg Ltd	
	Willowdale ON	416-494-5445

DISTRIBUTORS		
AL	Hall-Mark Elect Huntsville	205-837-8700
AZ	R V Weatherford Co Phoenix	602-272-7144
AZ	Hall-Mark Elect Phoenix	602-437-1200
AZ	Arrow Electronics Tempe	602-968-4800
CA	Bell Industries Gardena	213-515-1800
CA	Bell Industries Sunnyvale	408-734-8570
CA	R V Weatherford Co Glendale	213-849-3451
CA	Arrow Electronics Chatsworth	818-701-7500
CA	Arrow Electronics Sunnyvale	408-745-6600
CA	Hall-Mark Elect San Jose	408-946-0900
CO	R V Weatherford Co Denver	303-428-6900
CO	Arrow Electronics Aurora	303-696-1111
CT	Arrow Electronics Wallingford	203-265-7741
FL	Arrow Electronics Deerfield	
	Beach	305-429-8200

FL	Hall-Mark Elect Pompano Beach	305-971-9280
FL	Hall-Mark Elect Orlando	305-855-4020
FL	Arrow Electronics Palm Bay	305-725-1480
GA	Arrow Electronics Norcross	404-449-8252
GA	Hall-Mark Electronics Norcross	404-447-8000
IL	Hall-Mark Elect Bensenville	312-860-2678
IL	Arrow Electronics Schaumburg	312-397-3440
IN	Arrow Electronics Indpls	317-243-9353
KS	Hall-Mark Elect Lenexa	913-888-4747
MD	Arrow Electronics Columbia	301-995-0003
MD	Hall-Mark Elect Columbia	301-988-9800
MA	Hall-Mark Elect Billerica	617-935-9777
MA	Arrow Electronics Woburn	617-933-8130
MA	Gerber Radio Supply Norwood	617-769-6000
MI	Arrow Electronics Ann Arbor	313-971-8220
MN	Hall-Mark Elect Bloomington	612-854-3223
MN	Arrow Electronics Edina	612-830-1800
MO	Hall-Mark Elect Maryland Hts	314-291-5350
MO	Arrow Electronics St Louis	314-567-6888
NJ	Arrow Electronics Inc Marlton	609-596-8000
NJ	Arrow Electronics Fairfield	201-575-5300
NJ	Hall-Mark Elect Fairfield	201-575-4415
NM	Arrow Electronics Albuquerque	505-243-4566
NY	Peerless Radio Lynbrook	516-593-2121
NY	Arrow Electronics Hauppauge	516-231-1000
NY	Arrow Electronics Rochester	716-427-0300
NC	Hall-Mark Elect Raleigh	919-872-0712
NC	Arrow Electronics Raleigh	919-876-3132
NC	Electronics Mktg Corp Charlotte	704-394-6195
OH	Electronics Mktg Corp Columbus	614-299-4161
OH	Arrow Electronics Solon	216-248-3990
OH	Hall-Mark Elect Solon	216-349-4632
OK	Hall-Mark Elect Tulsa	918-665-3200
PA	Philadelphia Elect Phila	215-568-7400
PA	Arrow Electronics Monroeville	412-856-7000
TX	Hall-Mark Elect Dallas	214-341-1147
TX	Hall-Mark Elect Houston	713-781-6100
TX	Arrow Electronics Inc Austin	512-835-4180
TX	Arrow Electronics Houston	713-530-4700
WA	R V Weatherford Co Seattle	206-575-1340
WI	Arrow Electronics Oak Creek	414-764-6600
FR	Carsten Elctns Ltd Scarborough	
	ON	416-495-9999
FR	Future Elctns Inc Pte Claire PQ	514-694-7710
FR	R A E Indus Elctns Ltd	
	Burnaby BC	604-291-8866
FR	Renfrew Elec Co Ltd Scarborough	
	On	416-752-4611

TRW CONNECTOR DIV 1501 MORSE AVE		
ELK GROVE VILLAGE IL 60007		
TWX 910-222-1796		312-981-6000
M MILFORD EMP 1501 ENG 200 OVER \$10,000K		

AL	TRW Huntsville	205-533-7600
AZ	TRW Scottsdale	602-994-0441
CA	Straube & Assoc Mtn View	415-969-6060
CA	Integrated Circuit Sales	
	El Segundo	213-536-0600
CO	Straube Assoc Inc Westminster	303-426-0890
CT	TRW Rowayton	203-853-4466
FL	TRW Orlando	305-857-3650
GA	TRW Norcross	404-447-6154
IL	TRW Chicago	312-693-7730
IN	R O Whitesell Indpls	317-359-9283
IA	C H Horn & Assoc Cedar Rapids	319-393-8703
KS	Midtec Assoc Inc De Soto	913-441-6565
KY	R O Whitesell Louisville	502-426-7696
MD	TRW Columbia	301-964-9110
MA	TRW Westborough	617-870-0745
MI	R O Whitesell Southfield	313-559-5454
MN	TRW Minneapolis	612-854-6616
MO	John G Macke Co St Louis	314-432-2830
NM	Sales Sales Inc Albuquerque	505-883-1388
NY	TRW Fairport	716-425-3775
NC	TRW Greensboro	919-852-4676
OH	R O Whitesell Dayton	513-298-9546
OR	TRW Tigard	503-620-5032
PA	TRW Bala Cynwyd	215-667-3400
TX	TRW Dallas	214-248-8000
UT	Straube & Assoc SLC	801-263-2640
VA	TRW Richmond	804-288-8334
WA	TRW Bellevue	206-641-9996
WI	TRW Brookfield	414-784-7773
FR	Renmark Elect Ltd Toronto ON	416-494-5445

DISTRIBUTORS		
AL	Hall-Mark Elect Huntsville	205-837-8700
AL	Hamilton/Avnet Elect Huntsville	205-837-7210
AZ	Kierulff Elect Phoenix	602-243-4101
AZ	Hamilton/Avnet Elect Tempe	602-231-5100
AZ	Kierulff Elect Tucson	602-624-9986
AZ	Hallmark Elect Phoenix	602-243-6601
AR	Carlton Bates Co Fort Smith	501-646-8201

AR	Carlton Bates Co Little Rock	501-562-9100
CA	Avnet Elect Costa Mesa	714-754-6111
CA	Bell Industries Sunnyvale	408-734-8570
CA	Electronic Supply Riverside	714-683-7300
CA	Hamilton/Avnet Elect San Diego	714-571-7510
CA	Kierulff Elect LA	213-725-0325
CA	Kierulff Elect Palo Alto	415-968-6292
CA	Kierulff Elect San Diego	714-278-2112
CA	Kierulff Elect Tustin	714-731-5711
CA	Wyle Dist Group Santa Clara	408-727-2500
CA	Zack Radio Supply San Francisco	415-626-1444
CA	Arrow Elect Sunnyvale	408-745-6600
CA	Hamilton/Avnet Elect Sunnyvale	408-743-3355
CA	Hamilton Electro Sales Culver City	213-558-2121
CA	Hamilton Electro Sales Costa Mesa	714-641-4100
CA	Arrow Elect San Diego	714-565-4800
CA	Arrow Elect Chatsworth	213-701-7500
CA	Arrow Elect Newport Beach	714-851-8961
CA	Hamilton/Avnet Elect Sacramento	916-920-3150
CO	Arrow Elect Aurora	303-758-2100
CO	Hamilton/Avnet Elect Englewood	303-779-9998
CO	Newark Elect Denver	303-757-3351
CO	Wyle Dist Group Thornton	303-557-9953
CO	Kierulff Elect Denver	303-371-6500
CT	Arrow Elect Wallingford	203-265-7741
CT	Hamilton/Avnet Elect Danbury	203-797-2800
FL	Arrow Elect Ft Lauderdale	305-776-7790
FL	Arrow Elect Palm Bay	305-725-1480
FL	Hall-Mark Elect Orlando	305-855-4020
FL	Kierulff Elect St Petersburg	813-576-1966
FL	Hamilton/Avnet Elect Ft Lauderdale	305-971-2900
FL	Hamilton/Avnet Elect St Petersburg	813-576-3930
FL	Lodan Largo	813-586-2851
GA	Arrow Elect Norcross	404-449-8252
GA	Hamilton/Avnet Elect Norcross	404-447-7507
GA	Hall-Mark Elect Norcross	404-447-8000
HI	Precision Radio Ltd Honolulu	808-537-5291
IL	Arrow Elect Schaumburg	312-893-9420
IL	Bell Industries Chicago	312-982-9210
IL	Hall-Mark Elect Bensenville	312-860-3800
IL	Klaus Radio Peoria	309-691-4840
IL	Newark Elect Chicago	312-638-4411
IL	Ohm Elect Palatine	312-359-5500
IL	Pioneer/Chi Elk Grove Vlg.	312-437-9680
IL	Hamilton/Avnet Elect Bensenville	312-860-7700
IL	Kierulff Elect Elk Grove Vlg.	312-640-0200
IL	Lodan Arlington Hts	312-398-5311
IN	Graham Elect Fort Wayne	219-423-3422
IN	Graham Elect Indpls	317-634-8202
IN	Hamilton/Avnet Elect Indpls	317-844-9333
IN	Pioneer/Ind Indpls	317-849-7300
IN	Arrow Elect Indpls	317-243-9353
IA	Deco Inc Cedar Rapids	319-365-7551
IA	Klaus Radio Eldridge	319-285-8484
IA	Arrow Elect Cedar Rapids	319-395-7230
KS	Hall-Mark Elect Lenexa	913-888-4747
KS	Hamilton/Avnet Elect Overland Park	913-888-8900
LA	Ralphs of Lafayette Lafayette	818-234-4507
MD	Arrow Elect Columbia	301-247-5200
MD	Capitol Radio Wholesalers Rockville	301-881-2270
MD	Hall-Mark Elect Columbia	301-796-9300
MD	Pioneer/ Wash Gaithersburg	301-948-0710
MD	Hamilton/Avnet Elect Columbia	301-995-3500
MD	Hamilton/Avnet Elect Washington	301-953-7010
MA	Arrow Elect Woburn	617-933-8130
MA	Cerber Elect Norwood	617-769-6000
MA	Sager Electrical Supply Hingham	617-749-6700
MA	Hamilton/Avnet Elect Woburn	617-273-7500
MA	Kierulff Elect Billerica	617-935-5134
MI	Arrow Elect Ann Arbor	313-971-8220
MI	Newark Elect Detroit	313-967-0600
MI	Pioneer/MI Livonia	313-525-1800
MI	R S Elect Livonia	313-525-1155
MI	Wedemeyer Elect Supply Ann Arbor	313-665-8611
MI	Hamilton/Avnet Elect Livonia	313-522-4700
MN	Arrow Elect Edina	612-830-1800
MN	Gopher Elect St Paul	612-483-3322
MN	Hall-Mark Elect Bloomington	612-854-3223
MN	Newark Elect Mpls	612-331-6350
MN	Hamilton/Avnet Minnetonka	612-932-0600
MO	Hall-Mark Elect Maryland Heights	314-291-5350
MO	Olive Industrial Elect St Louis	314-426-4500
MO	Arrow Elect St Louis	314-567-6888
MO	Hamilton/Avnet Elect Earth City	314-344-1200
MO	Kierulff Elect Maryland Heights	314-739-0855
NJ	Arrow Elect Fairfield	201-797-5800
NJ	Arrow Elect Marlton	609-235-1900
NJ	Hall-Mark Elect Cherry Hill	609-424-0880
NJ	Hamilton/Avnet Elect Cherry Hill	609-424-0100
NJ	State Elec Parts Corp East Hanover	201-887-2550
NJ	Hamilton/Avnet Elect Fairfield	201-575-3390
NJ	Kierulff Elect Fairfield	201-575-6700
NM	Arrow Elect Albuquerque	505-243-4566
NM	Hamilton/Avnet Elect Albuquerque	505-765-1500
NM	International Elect Albuquerque	505-262-2012
NY	Arrow Elect Hauppauge	516-694-8800
NY	Conco Elect Ronkonkoma	516-467-8200
NY	Pioneer/Binghamton Vestal	607-748-8211
NY	Rochester Radio Supply Rochester	716-454-7800

NY	Simcona Elect Rochester	716-328-3230
NY	Arrow Elect Liverpool	315-652-1000
NY	Arrow Elect Rochester	716-275-0300
NY	Hamilton/Avnet Elect East Syracuse	315-437-2641
NY	Hamilton/Avnet Elect Melville	516-454-6060
NY	Hamilton/Avnet Elect Rochester	716-475-9130
NC	Hall-Mark Elect Raleigh	919-832-4465
NC	Hamilton/Avnet Elect Raleigh	919-289-8030
NC	Arrow Elect Winston-Salem	919-725-8711
NC	Arrow Elect Raleigh	919-776-3132
OH	Arrow Elect Centerville	513-435-5563
OH	Arrow Elect Solon	216-248-3990
OH	Electronics Mktg Corp Columbus	614-299-4161
OH	Hughes-Peters Inc Cincinnati	513-351-2000
OH	Hughes-Peters Inc Columbus	614-294-5351
OH	Pioneer/Cleve Cleveland	216-587-3600
OH	Pioneer/Dayton Dayton	513-236-9900
OH	Hamilton/Avnet Elect Dayton	513-433-6010
OK	Hall-Mark Elect Tulsa	918-665-3200
OR	Hamilton/Avnet Elect Lake Oswego	503-635-8831
OR	Kierulff Elect Portland	503-641-9150
PA	Almo Elect Philadelphia	215-698-4000
PA	CAM/RPC Elect Pittsburgh	412-782-3770
PA	Peak Elect Wayne	215-293-9000
PA	Pioneer/Ptsbgh Pittsburgh	412-782-2300
PA	Arrow Elect Monroeville	412-856-7000
TX	Arrow Elect Carrollton	214-386-7500
TX	Arrow Elect Houston	713-491-4100
TX	Hall-Mark Elect Dallas	214-341-1147
TX	Hall-Mark Elect Houston	713-781-6100
TX	Harrison Equip Co Houston	713-879-2600
TX	International Elect El Paso	915-778-9761
TX	Newark Elect Garland	214-494-5911
TX	Arrow Elect Austin	512-835-4180
TX	Hamilton/Avnet Elect Austin	512-837-8911
TX	Hamilton/Avnet Elect Houston	713-780-1771
TX	International Elect Dallas	214-233-9323
TX	Kierulff Elect Dallas	214-343-2400
UT	Hamilton/Avnet Elect SLC	801-972-2800
UT	Arrow Elect SLC	801-539-1135
UT	Kierulff Elect SLC	801-973-6913
WA	Arrow Elect Bellevue	206-643-4800
WA	Wyle Dist Group Bellevue	206-453-8300
WA	Hamilton/Avnet Elect Bellevue	206-453-5844
WA	Kierulff Elect Tukwila	206-575-4420
WI	Arrow Elect Oak Creek	414-764-6600
WI	Electronic Expeditors Milwaukee	414-228-8100
WI	Hall-Mark Elect New Berlin	414-761-3000
WI	Marsh Elect Milwaukee	414-475-6000
WI	Hamilton/Avnet Elect New Berlin	414-784-4510
WI	Arrow Elect Madison	608-273-4977

TRW CYLINDRICAL CONNECTORS DIV

8821 SCIENCE CENTER DR

MINNEAPOLIS, MN 55428

TWX 910-576-2748

W WARNER EMP 300 ENG 25 OVER \$10,000K

CA	Aeroflite Entrps Brea	714-773-4251
CA	Kierulff Cypress	714-220-6300
CA	Hamilton/Avnet Culver City	213-558-2000
IL	Electronic Connectors Chicago	312-761-2200
NY	Conco Ronkonkoma	516-467-8200
NY	Arrow Electronics Hauppauge	516-231-1030
OH	Pioneer/Dayton Dayton	513-299-7273
TX	Hall-Mark Elect Dallas	214-231-5101

For Sales Offices/Reps See TRW/Cinch Connector Listings

TRW ELECTRONIC ASSEMBLIES DIV

380 W PALATINE RD WHEELING

IL 60090 TWX 28 2400

M TRAVIOLIA EMP 2200 ENG 115 OVER \$10,000K

CA	Hamilton/Avnet Culver City	213-558-2100
CA	Arrow Sunnyvale	408-745-6600
CA	Hamilton/Avnet Sunnyvale	408-743-3346
CA	Hall-Mark San Jose	408-946-0900
MA	Hall-Mark Billerica	617-935-9777
MA	Arrow Woburn	617-933-8130
MA	Hamilton/Avnet Woburn	617-273-7500
NY	Arrow Electronics Farmingdale	516-293-6363
NY	Hamilton/Avnet Rochester	716-475-9140
NY	Hall-Mark Ronkonkoma	516-737-0600
TX	Hall-Mark Dallas	214-343-5000
TX	Arrow Houston	713-530-4700
TX	Hamilton/Avnet Houston	713-780-1771

TRW LSI PRODUCTS DIV BOX 2472

LAJOLLA CA 92038

TWX 910-335-1571

D TURNAGE

CA	Hamilton/Avnet Culver City	213-558-2100
CA	Arrow Sunnyvale	408-745-6600
CA	Hamilton/Avnet Sunnyvale	408-743-3346
CA	Hall-Mark San Jose	408-946-0900
MA	Hall-Mark Billerica	617-935-9777
MA	Arrow Woburn	617-933-8130
MA	Hamilton/Avnet Woburn	617-273-7500
NY	Arrow Electronics Farmingdale	516-293-6363
NY	Hamilton/Avnet Rochester	716-475-9140
NY	Hall-Mark Ronkonkoma	516-737-0600
TX	Hall-Mark Dallas	214-343-5000
TX	Arrow Houston	713-530-4700
TX	Hamilton/Avnet Houston	713-780-1771

TRW MICROWAVE 825 STEWART DR

SUNNYVALE CA 94086

TWX 910-339-9207

R ROY EMP 700 ENG 150 OVER \$10,000K

AL	Rep Inc Huntsville	205-881-9270
AZ	Trembley Assoc Tempe	602-967-2058
CA	Sheehan Mktg Assoc Campbell	408-370-6900
CA	DeTomas & Grupp Torrance	213-327-1771
CO	Trembley Assoc Wheatridge	303-421-8900
FL	Electrocraft Inc Largo	813-530-4749

GA	Rep Inc Tucker	404-938-4358
KS	Technical Sales Assoc Shawnee Mission	913-888-3330
MD	Doss Electronics Ellicott City	301-465-1336
MA	BBC Chelmsford	617-452-7211
MO	Technical Sales Assoc St Louis	314-725-5361
NV	Trembley Assoc Las Vegas	702-739-9770
NJ	Astroprep Inc Perth Amboy	201-826-8050
NM	Trembley Assoc Albuquerque	505-266-8616
NY	Astroprep Babylon	516-422-2500
NC	Rep Inc Raleigh	919-851-3007
OR	Olson Ferree & Assoc Hillsboro	503-640-9660
PA	Eastern Instrumentation Bensalem	215-245-6660
TN	Rep Inc Jefferson City	615-475-4105
TX	Tesco Garland	214-681-1376
UT	Trembley Assoc SLC	801-486-5292
WA	Olson Ferree & Assoc Bellevue	206-883-7792
FR	E G Lomas, Ltd Ottawa, Ont.	613-725-2177

DISTRIBUTORS

CA	Anthem Elect San Jose	408-946-8000
CA	Zeus Santa Clara	408-727-0714
CA	Zeus Anaheim	714-632-6880
NY	Zeus Elmsford	914-592-4120
FR	E G Lomas Ltd Ottawa Ont	613-725-2177

TRW MOTOR DIV 2275 STANLEY AVE

DAYTON OH 45404

TWX 810-459-1642

B BELPREY EMP 500 ENG 60 OVER \$10,000K

AL	TRW/ECG Huntsville	205-533-7600
AZ	TRW/ECG Scottsdale	602-994-0441
CA	TRW/ECG LA	213-535-6178
CA	Straube Assoc Mt View	415-969-6060
CO	Straube Assoc Westminster	303-426-0890
CT	TRW/ECG Rowayton	203-853-4466
FL	TRW/ECG Orlando	305-857-3650
GA	TRW/ECG Norcross	404-447-6154
IL	TRW/ECG Chicago	312-693-7730
IN	R O Whitesell Indpls	317-359-9283
IA	C H Horn & Assoc Cedar Rapids	319-393-8703
KS	Midtex Assoc Desoto	913-441-6565
KY	R O Whitesell Louisville	502-426-7696
MA	TRW/ECG Westborough	617-870-0745
MI	R O Whitesell Southfield	313-559-5454
MN	TRW/ECG Minneapolis	612-854-6616
MO	John G Macke Co St Louis	314-432-2830
NY	TRW/ECG Fairport	716-425-3775
NC	TRW/ECG Greensboro	919-852-4676
OH	R O Whitesell Dayton	513-298-9546
PA	TRW/ECG Bala Cynwyd	215-667-3400
TN	R O Whitesell Knoxville	615-694-9476
TX	TRW/ECG Dallas	214-248-8000
UT	Straube Assoc SLC	801-263-2640
VA	TRW/ECG Richmond	804-288-8334
WA	TRW/ECG Bellevue	206-641-9996
WI	TRW/ECG Brookfield	414-784-7773

DISTRIBUTORS

AL	Hall-Mark Huntsville	205-837-8700
AZ	Hamilton/Avnet Tempe	602-231-5100
AZ	Hall-Mark Phoenix	602-243-6601
CA	Avnet Costa Mesa	714-754-6111
CA	Hall-Mark Sunnyvale	408-773-9990
CA	Hamilton/Avnet San Diego	619-571-7510
CA	Hamilton/Avnet Culver City	213-558-2252
CA	Arrow San Diego	619-565-4800
CO	Arrow Aurora	303-696-1111
CO	Hamilton/Avnet Englewood	303-740-1000
CO	Hall-Mark Englewood	303-790-1662
CT	Arrow Wallingford	203-265-7741
FL	Hall-Mark Ft Lauderdale	305-971-9280
FL	Hall-Mark Orlando	305-855-4020
FL	Arrow Ft Lauderdale	305-776-7790
FL	Arrow Palm Bay	305-725-1480
IL	Hall-Mark Bensenville	312-860-3800
IL	Pioneer Elk Grove Village	312-437-9680
IN	Pioneer Std Indpls	317-849-7300
KS	Hall-Mark Lenexa	913-888-4747
MD	Hamilton/Avnet Hanover	301-995-3500
MD	Hall-Mark Columbia	301-988-9800
MD	Arrow Baltimore	301-247-5200
MA	Hamilton/Avnet Woburn	617-933-8130
MA	Arrow Woburn	617-933-8130
MI	Pioneer Std Livonia	313-525-1800
MI	Hamilton/Avnet Livonia	313-522-4700
MI	Arrow Ann Arbor	313-971-8220
MN	Hall-Mark Bloomington	612-854-3223
MN	Arrow Edina	612-830-1800
MO	Hall-Mark Maryland Hts	314-291-5350
MO	Hamilton/Avnet St Louis	314-344-1200
NH	Arrow Manchester	603-688-6968
NJ	Hall-Mark Cherry Hill	609-424-7300
NJ	Arrow Marlton	609-596-8000
NJ	Arrow Fairfield	201-575-4415
NM	Arrow Albuquerque	505-243-4566
NY	Hamilton/Avnet East Syracuse	516-437-2641
NY	Jaco Hauppauge	516-273-5500
NY	Arrow Rochester	716-427-0300
NY	Arrow Hauppauge	516-231-1000
NY	Arrow Liverpool	513-652-1000
NC	Hall-Mark Raleigh	919-872-0712
NC	Arrow Winston Salem	919-725-8711
NC	Hamilton/Avnet Raleigh	919-878-0819

OH	Hamilton/ Avnet Dayton	513-433-0610
OH	Hall-Mark Westerville	614-891-4555
OK	Hall-Mark Tulsa	918-665-3200
OR	Hamilton-Avnet	503-635-8157
PA	Pioneer Pittsburgh	412-782-2300
TX	Hall-Mark Dallas	214-343-5000
TX	Hamilton/ Avnet Dallas	713-781-6100
TX	Hamilton/ Avnet Houston	214-659-4111
TX	Arrow Dallas	713-780-1771
TX	Arrow Stafford	214-386-7500
UT	Hamilton/ Avnet SLC	801-972-2800
WA	Hamilton/ Avnet Bellevue	206-643-3950
WA	Arrow Bellevue	206-643-4800
WI	Hall-Mark Oak Creek	414-761-3000
WI	Arrow Oak Creek	414-764-6600
FR	Hamilton/ Avnet Mississauga ON	416-677-7432
FR	Hamilton/ Avnet Ottawa ON	613-226-1700

TRW OPTOELECTRONICS DIV		
1201 TAPPAN CIR BOX 428		
CARROLLTON TX 75006		
TX	910-860-5958	214-323-2200
C BATES EMP 1400 ENG 80 OVER \$10,000K		
AZ	TRW/ECG Scottsdale	602-994-0441
CA	Straube Assoc Min View	505-883-1388
CO	Straube Assoc Westminster	303-426-0890
CT	TRW/ECG Rowayton	203-853-4466
FL	TRW/ECG Orlando	305-857-3650
GA	TRW/ECG Norcross	404-447-6154
IL	TRW/ECG Chicago	693-7730
IN	R O Whitesell & Assoc Indpls	317-359-9283
IA	C H Horn & Assoc Cedar Rapids	319-393-8703
KS	Midtec Assoc Desoto	913-441-6565
KY	R O Whitesell & Assoc Louisville	502-426-7696
MA	TRW/ECG Westborough	617-870-0745
MI	R O Whitesell & Assoc Grand Rapids	616-942-5420
MI	TRW/ECG Mpls	612-854-6616
NY	S W Sales Albuq	505-883-1388
NY	TRW/ECG Fairport	716-425-3775
NC	TRW/ECG Greensboro	919-852-4676
OH	R O Whitesell & Assoc Columbus	614-888-9396
OR	TRW/ECG Tigard	503-620-5032
PA	TRW/ECG Bala Cynwyd	215-667-3400
TN	R O Whitesell & Assoc Knoxville	615-994-9476
TX	TRW/ECG Dallas	214-248-8000
UT	Straube Assoc SLC	801-263-2640
VA	TRW/ECG Richmond	804-288-8334
WA	TRW/ECG Bellevue	206-641-9996
WI	TRW/ECG Brookfield	414-784-7773
FR	Renmark Elctns Toronto ON	416-494-5445
FR	Electronic Sales Assoc Rio Piedras, PR	809-762-6707

DISTRIBUTORS		
AL	Arrow Electro Huntsville	205-837-6955
AR	Arrow Electronics Tempe	602-968-4800
CA	Bell Indus Sunnyvale	408-734-8570
CA	Hamilton Electro Sales Culver City	213-558-2121
CA	Pacesetter Electronics Anaheim	714-779-5855
CA	Arrow Electronics Chatsworth	818-701-7500
CA	Avnet Elect Costa Mesa	714-754-6111
CA	Hall-Mark Elect Canoga Park	818-716-7300
CA	Hamilton-Avnet Ontario	714-989-4602
CA	Hamilton-Avnet Culver City	213-558-2121
CA	Harper S I D Alhambra	818-289-0255
CA	Prime Electro Manhattan Beach	213-379-3642
CO	Arrow Elect Aurora	303-696-1111
CO	Bell Industries Wheatridge	303-424-1985
CO	Hamilton-Avnet Englewood	303-740-1000
CT	Arrow Elect Wallingford	203-265-7741
CT	Hamilton-Avnet Danbury	203-797-2800
FL	Arrow Elect Palm Bay	305-725-1480
FL	Chip Supply Orlando	305-298-7100
FL	Hall-Mark Elect Pompano Bch	305-971-9280
FL	Hamilton-Avnet Ft Lauderdale	305-971-2900
FL	Pioneer Elect Altamonte Spring	305-834-9090
GA	Arrow Elect Norcross	404-449-8252
GA	Hamilton-Avnet Norcross	404-447-7507
GA	Pioneer Elect Norcross	404-448-1711
IL	Newark Electronics Chicago	312-784-5100
IL	R M Electronics Elk Grove	312-364-6122
IL	Arrow Elect Schaumburg	312-397-3440
IL	Hall-Mark Elect Wooddale	312-860-3800
IL	Hamilton-Avnet Bensenville	312-860-7700
IL	Pioneer Elect Elk Grove	312-437-9680
IN	Arrow Elct Indpls	317-243-9353
IN	Pioneer Elect Indpls	317-849-7300
IN	R M Elect Indpls	317-291-7110
IN	Hamilton-Avnet Carmel	317-844-9333
IA	Arrow Elect Cedar Rapids	319-395-7230
KS	Hall-Mark Electronics Lexena	913-888-4747
KS	Hamilton-Avnet Overland Pk	913-888-8900
MD	Pioneer Electronics Gaithersburg	301-921-0680
MD	Arrow Elect Columbia	301-995-0003
MA	Greene-Shaw Co Newton	617-969-8900
MA	Gerber Electronics Norwood	617-769-6000
MA	Arrow Elect Woburn	617-933-8130
MA	Hamilton-Avnet Peabody	617-532-3701
MI	RM Elect Wyoming	616-531-9300
MI	Arrow Elect Ann Arbor	313-971-8220
MI	Hamilton-Avnet Grand Rapids	616-243-8805
MI	Pioneer Elect Livonia	313-525-1800
MN	Arrow Elect Edina	612-830-1800
MO	Arrow Elect St Louis	314-567-6888
MO	Hamilton-Avnet Earth City	314-344-1200
NH	Arrow Elect Manchester	603-668-6968
NJ	Arrow Elect Marlton	609-596-8000
NJ	Arrow Elect Fairfield	201-575-5300
NJ	Hamilton-Avnet Cherry Hill	609-424-0100
NM	Bell Indus Albuq	505-292-2700
NM	International Elect Albuquerque	505-345-8127
NM	Arrow Elect Albuquerque	505-243-4566
NM	Bell Indus Albuquerque	505-292-2700
NY	Arrow Elect Melville	516-694-6800
NY	Aquas Elect Rochester	716-454-7800
NY	Arrow Intl Div Farmingdale	516-293-6363
NY	Arrow Elect Liverpool	315-652-1000

NY	Arrow Elect Rochester	716-427-0300
NY	Hall-Mark Elect Ronkonkoma	516-737-0600
NY	Hamilton-Avnet Syracuse	315-437-2641
NY	Hamilton-Avnet Hauppauge	516-231-9800
NC	Arrow Elect Winston Salem	919-725-8711
NC	Hall-Mark Elect Raleigh	919-872-0712
NC	Hamilton-Avnet Raleigh	919-878-0819
NC	Pioneer Elect Charlotte	704-527-8188
OH	Pioneer Electronics Dayton	513-236-9900
OH	Pioneer Electronics Cleveland	216-287-3600
OH	Arrow Elect Centerville	513-435-5563
OH	Arrow Elect Solon	216-248-3990
OH	Hamilton-Avnet Dayton	513-439-6700
OK	Hall-Mark Electronics Tulsa	918-665-3200
OK	Arrow Elect Tulsa	918-665-7700
OR	Bell Ind Lake Oswego	503-241-4115
OR	Arrow Elect Tigard	503-684-1690
OR	Hamilton-Avnet Lake Oswego	503-635-8157
PA	Pioneer Elect Pittsburgh	412-782-2300
PA	Arrow Elect Monroeville	412-856-7000
PA	Hamilton-Avnet Pittsburgh	412-281-4150
TX	Hall-Mark Electronics Dallas	214-553-4300
TX	Arrow Elect Houston	713-530-4700
TX	Hamilton-Avnet Irving	214-659-4111
TX	Harper SID Richardson	214-235-3177
TX	International Elect Dallas	214-233-9323
UT	Bell Ind S L C	801-972-6969
UT	Arrow Elect SLC	801-972-0404
VA	Arrow Elect Richmond	804-282-0413
WA	Arrow Elect Bellevue	206-643-4800
WA	Bell Indust Bellevue	206-747-1515
WA	Hamilton-Avnet Bellevue	206-643-3950
WI	Arrow Elect Oak Creek	414-764-6600
WI	Hamilton-Avnet New Berlin	414-784-4510
FR	Future Elect Pte Claire PQ	514-694-7710
FR	Arrow/ Cesco Montreal PQ	514-735-5511
FR	Arrow/ Cesco Downsview ON	416-661-0220
FR	Electrosonic Willowdale ON	416-494-1555
FR	Future Elect Toronto ON	416-663-5563
FR	Future Elect Calgary AB	403-259-6408
FR	Future Elect Vancouver BC	604-438-5545
FR	Hamilton-Avnet Calgary AB	403-230-3586
FR	Hamilton-Avnet Nepean ON	613-226-1700
FR	Hamilton-Avnet St Laurent PQ	514-331-6443
FR	Hamilton-Avnet Burnaby BC	604-437-6667

TRW RESISTIVE PRODUCTS DIV		
401 N BROAD ST PHILADELPHIA		
PA 19108 TWX 710-670-2286		
PA	J MACWILLIAMS EMP 1000 ENG 100 OVER \$10,000K	215-922-8900
TRW RF DEVICES DIV 14520		
AVIATION BLVD LAWDALE		
CA 90260 TWX 910-325-6206		
CA	D FAIGENBLAT EMP 500 ENG 110	213-536-0888

DISTRIBUTORS		
AL	Hall Mark Elect Huntsville	205-837-8700
AL	Arrow Electronics Huntsville	205-837-7210
AL	Hamilton-Avnet Huntsville	205-837-7210
AZ	R V Weatherford Co Phoenix	602-272-7144
AZ	Hall Mark Elect Phoenix	602-437-1200
AZ	Arrow Electronics Tempe	602-968-4800
AZ	Fisher/ Brownell Tempe	602-967-1464
CA	Hamilton-Avnet Tempe	602-231-5100
CA	Bell Industries Sunnyvale	408-734-8570
CA	Arrow Elect Chatsworth	408-745-6600
CA	R V Weatherford Co San Diego	213-701-7500
CA	Arrow Elect San Diego	619-695-1700
CA	R V Weatherford Co Anaheim	714-547-0891
CA	Hall Mark Elect San Jose	408-946-0900
CA	Arrow Elect Tustin	714-838-5422
CA	Arrow Electronics Chatsworth	213-701-7500
CA	Avnet Electronics Costa Mesa	714-754-6111
CA	Bell Industries Thousand Oaks	805-499-6821
CA	Fisher/ Brownell San Diego	619-560-8545
CA	Hamilton Electro Sales Chatsworth	213-700-6500
CO	Arrow Elect Aurora	303-696-6111
CO	R V Weatherford Co Englewood	303-428-6900
CO	Hamilton-Avnet Englewood	303-740-1000
CT	Arrow Elect Wallingford	203-265-7741
CT	Arrow Elect Ft Lauderdale	305-776-7790
FL	Arrow Elect Palm Bay	305-725-1480
FL	Hall Mark Elect Orlando	305-855-4020
FL	Hamilton-Avnet St Petersburg	813-576-3930
GA	Arrow Elect Norcross	404-449-8252
GA	Hall Mark Elect Norcross	404-447-7507
GA	Hamilton-Avnet Norcross	404-447-7507
IL	Arrow Elect Schaumburg	312-397-3440
IL	Hall Mark Elect Bensenville	312-860-3800
IL	Hamilton-Avnet Bensenville	312-860-7700
IN	Arrow Elect Indpls	317-243-9353
IA	Arrow Elect Cedar Rapids	319-395-7230
KS	Hall Mark Elect Lenexa	913-888-4747
KS	Hamilton-Avnet Overland Park	913-888-8900
MD	Arrow Elect Baltimore	301-247-5200
MD	Hall Mark Elect Columbia	301-998-9800
MD	Hamilton-Avnet Columbia	301-995-3500
MA	Arrow Elect Woburn	617-933-8130
MA	Gerber Elect Norwood	617-769-6000
MA	Hall-Mark Elec Woburn	617-935-9777
MA	Hamilton-Avnet Woburn	617-273-7500
MI	Arrow Elect Ann Arbor	313-971-8220
MI	Hamilton-Avnet Grand Rapids	616-243-8805
MN	Arrow Elect Edina	612-830-1800
MN	Hall Mark Elect Bloomington	612-854-3223
MN	Hamilton-Avnet Minnetonka	612-932-0600
MO	Arrow Elect St Louis	314-567-6888
MO	Hall Mark Elect Earth City	314-291-5350
MO	Hamilton-Avnet Earth City	314-344-1200
NH	Arrow Elect Manchester	603-668-6968
NJ	Arrow Elect Moorestown	609-596-8000
NJ	Arrow Elect Fairfield	201-575-5300
NJ	Hall Mark Elect Fairfield	201-575-4415
NJ	Hamilton-Avnet Cherry Hill	609-424-0100
NM	Arrow Elect Albuquerque	505-243-4566
NM	International Elect Albuquerque	505-345-8127

NM	Hamilton-Avnet Albuquerque	505-765-1500
NY	Arrow Elect Melville	516-694-6800
NY	Arrow Elect Hauppauge	516-231-1000
NY	Arrow Elect Liverpool	315-652-1000
NY	Arrow Elect Rochester	716-275-0300
NY	Hall Mark Elect Ronkonkoma	516-737-0600
NY	Hamilton-Avnet Hauppauge	516-454-6060
NY	Hamilton-Avnet Rochester	716-475-9130
NY	Jaco Electronics Hauppauge	516-273-5500
NC	Arrow Elect Winston Salem	919-725-8711
NC	Hall Mark Elect Raleigh	919-872-0712
NC	Arrow Electronics Raleigh	919-876-3132
OH	Arrow Elect Solon	216-248-3990
OH	Arrow Elect Centerville	513-435-5563
OH	Hall-Mark Elec Cincinnati	513-563-5980
OH	Hamilton-Avnet Cleveland	216-331-3500
OK	Hall Mark Elect Tulsa	918-665-3200
OR	Arrow Electronics Tigard	503-684-1690
OR	Hamilton-Avnet Lake Oswego	503-635-8157
PA	Almo Elect Philadelphia	215-698-4079
PA	Arrow Elect Monroeville	412-856-7000
TX	Arrow Elect Dallas	214-380-6464
TX	Arrow Elect Houston	713-530-4700
TX	Hall Mark Elect Dallas	214-343-5000
TX	Hall Mark Elect Houston	713-781-6100
TX	International Elect Dallas	214-233-9323
TX	R V Weatherford Co Dallas	214-931-7333
TX	R V Weatherford Co Houston	713-688-7406
TX	Arrow Electronics Austin	512-835-4180
TX	Fisher/ Brownell Richardson	214-235-3177
TX	Hamilton-Avnet Houston	713-780-1771
TX	Hamilton-Avnet Irving	214-659-4111
UT	Arrow Electronics SLC	801-539-1135
UT	Hamilton-Avnet SLC	801-972-2800
VA	Arrow Electronics Richmond	804-282-0413
WA	R V Weatherford Co Seattle	206-575-1340
WA	Arrow Electronics Bellevue	206-643-4800
WA	Hamilton-Avnet Bellevue	206-453-5844
WI	Arrow Elect Oak Creek	414-764-6600
WI	Hall Mark Elect Oak Creek	414-761-3000
WI	Hamilton-Avnet New Berlin	414-784-4510
WI	Future Elect Montreal PQ	514-694-7710
FR	RAE Indus Elect Burnaby BC	604-291-8866
FR	Hamilton-Avnet Alberta AB	403-230-3586
FR	Hamilton-Avnet Mississauga ON	416-677-7432
FR	Hamilton-Avnet St Laurent PQ	514-331-6443

TSD DISPLAY PRODUCTS INC		
35 ORVILLE DR BOHEMIA		
NY 11716 TWX 14-4659		
CA	S LOAN EMP 15 ENG 4 \$1,000-\$2,500K	516-589-6800
CA	Leddy Assoc Mt View	415-969-6313
CO	McCarthy Co Littleton	303-773-0643
MO	Engineering Services Co St Louis	314-997-1515
NY	HLM Assoc Northport	516-757-1606
VA	Beacon North Inc Fairfax	703-591-1300

TSI INC 500 CARDIGAN RD		
BOX 64394 ST PAUL MN 55164		
TX	297-482	612-483-0900
R SATHYAKUMAR EMP 200 ENG 20 OVER \$10,000K		
CA	TSI Inc Sunnyvale	408-720-0681
CT	TSI Inc Glastonbury	203-633-8180
IL	TSI Chicago Addison	312-530-8202
MI	TSI Instruments Ann Arbor	313-996-0773
PA	TSI Pittsburgh Carnegie	412-341-1888
TX	TSI Houston Humble	713-540-1247

TS PRODUCTS INC 12455 BRANFORD		
ST BLDG 22 ARLETA CA 91331		
CA	J THOMASSON EMP 20 ENG 4	818-896-6676
CA	Motion Control Inc San Marino	818-796-0189

TTC/TELEVISION TECHNOLOGY CORP		
2360 INDUSTRIAL LA BROOMFIELD		
CO 80020 TWX 910-938-0396		
CO	EMP 132 ENG 6 \$2,500-\$5,000K	303-465-4141

T T E INC 2233 S BARRY AVE		
LOS ANGELES CA 90064		
CA	J MONTGOMERY EMP 24 ENG 3	213-478-8224
ADV PG 185		

NM	Mayco Inc	505-299-4002
PA	Wycote Instruments	215-572-6500
VA	Electron Sales	703-635-7201

TTS (TELECOM TERMINAL SYS)		
621 HINDRY AVE INGLEWOOD		
CA 90301 TWX 3715831..... 213-641-811		
L WINTERS EMP 25 ENG 2		

DISTRIBUTORS

CA Manco Mt View..... 415-964-7281

TUSONIX INC 7741 N BUSINESS

PK DR TUCSON AZ 85743
 TWX 299640..... 602-744-0400
 CA Tusonix No Hollywood..... 213-509-0449
 CA James S Heaton Co Redwood City..... 415-367-9000
 MA Richard Purinton Inc Andover..... 617-475-7055
 NY Tusonix Webster..... 716-671-4073
 NC Tusonix Greensboro..... 919-292-4286
 OR Tusonix Portland..... 503-297-1555

DISTRIBUTORS

IL Newark Elect Chicago..... 312-638-4411
 MD RESCO White Marsh..... 301-529-0500
 NY Fairmont Elect Hauppauge..... 516-231-3313
 TX TTI Fort Worth..... 817-831-0441

TUSTIN ELECTRONICS CO 1431

E ST ANDREWS PL SANTA ANA
 CA 92705..... 714-549-0391
 S TUNKELROTT EMP 15 ENG 3 \$2,500-\$5,000K

TWIN CITY INTERNATIONAL INC

175 PINEVIEW DR BOX 248
 AMHERST NY 14150 TWX 9-1362..... 716-691-8855
 R DALFONSO EMP 49 ENG 6 \$2,500-\$5,000K
 AZ Circuit Supplies Inc Phoenix..... 602-266-4004
 CA E Tully Foster City..... 415-573-5785
 CA Twin City West Coast Orange..... 714-633-2382
 CO Circuit Supplies Inc Denver..... 303-469-5317
 CT S Kramer Stamford..... 203-967-2041
 IL Twin City Intl Boling Brook..... 312-345-1182
 FR Lou Reeves Mississauga ON..... 416-678-9590

TWIN RIVERS ENGINEERING INC

RTE 96 E BOOTHBAY ME 04544
 TWX 950-035..... 207-633-2975
 R CONANT EMP 15 ENG 4 \$1,000-\$2,500K

TWP 2133 4TH ST BERKELEY

CA 94710 TWX 171267..... 415-548-4434
 EMP 12 ENG 1 \$500-\$1,000K

TYLAN CORP 23301 S WILMINGTON

AVE CARSON CA 90745
 TWX 910-345-6801..... 213-518-3610
 A FREEMAN EMP 325 ENG 28 OVER \$10,000K
 AZ Tylan Corp Scottsdale..... 602-991-1099
 CA Tylan Corp Fremont..... 415-490-0907
 CO Tylan Corp Colorado Springs..... 303-634-1054
 CT Tylan Corp Danielson..... 203-774-7097
 MA Tylan Corp Danvers..... 617-777-7210
 NJ Tylan Corp Medford..... 609-953-1211
 NJ Tylan Corp Westfield..... 201-654-8500
 TX Tylan Corp Garland..... 214-271-2079

TYTON CORP 7930 N FAULKNER RD

MILWAUKEE WI 53223
 TWX 910-262-3094..... 414-355-1130
 T MORGAN
 CA J Jensen Los Angeles..... 714-581-3334
 GA M Dymek Smyrna..... 404-433-8818
 IL C Locklin Chicago..... 312-964-6225
 PA J Callahan..... 215-853-3330
 TX L Rates Dallas..... 214-253-6611

UARCO INC WEST COUNTY LINE RD

BARRINGTON IL 60010
 TWX 910-651-1901..... 312-381-7000
 B MOSES EMP 250 ENG 45 OVER \$10,000K

UCE INC/PLANAR GRAPHICS DIV

24 FATCH ST NORWALK CT 06855..... 203-838-7509
 R EICHER EMP 25 ENG 6 \$1,000-\$2,500K

UCHIHASHI METAL INDUSTRIAL CO LTD

9-14 IMAZU-KITA 2-CHOME
 TSURUMI-KU OSAKA JAPAN
 TWX 64377..... 06-962-6666
 T NAKANO EMP 220 ENG 15 OVER \$10,000K

DISTRIBUTORS

NJ Chatham Components Inc Chatham..... 201-635-8075
 UDDEHOLM CORP 721 UNION BLVD
 TOTOWA NJ 07511 TWX 130447..... 201-785-8500
 A THOMMA EMP 200 ENG 10
 GA H Cochran Austell..... 404-944-3200
 OH A Thomma Cleveland..... 216-271-4431
 OR K Fedio Portland..... 503-620-1032

UFE INCORPORATED 1900 S

GREELEY ST STILLWATER
 MN 55082..... 612-439-1561
 T COWEN EMP 650 ENG 20 OVER \$10,000K

UFI 545 MAIN ST MORRO BAY

CA 93442..... 805-772-1203
 EMP 10 ENG 3

ULANET CO, GEORGE 413 MARKET ST

NEWARK NJ 07105..... 201-589-4876
 J ULANET EMP 30 ENG 3 \$500-\$1,000K

ULANO CORP 255 BUTLER ST

BROOKLYN NY 11217..... 718-643-1770
 CA Ulano of Calif Sherman Oaks..... 818-986-2690
 IL Ulano Midwest Mt Prospect..... 312-392-1446
 OH Ulano Canton..... 216-477-4321
 TX Ulano Houston..... 713-492-7419

ULTRA CARBON CORP BOX X-924

BAY CITY MI 48707
 TWX 810-265-1222..... 517-894-2911
 R ANTHONY EMP 210 ENG 7 OVER \$10,000K
 TX Ultra Carbon Corp Sherman..... 314-786-3361

ULTRA PRODUCTS 16267 ROME RD

MANITOU BEACH MI 49253..... 517-547-3161
 J CRAMER EMP 21 ENG 1

ULTRA SONIC SEAL CO 398 REED RD

BROOMALL PA 19008 TWX 969639..... 215-543-7760
 G TOSTI EMP 15 ENG 4 \$1,000-\$2,500K

GA EME Assoc Atlanta..... 404-252-9229
 IL Modern Representatives Chicago..... 312-622-1230
 MD H R Sieber Co Silver Spring..... 301-589-9110
 MI Shute Co Livonia..... 313-525-5750
 MN Thermo Tech Minnetonka..... 612-938-3393
 NH Tilco Co Hampton..... 603-778-0760
 NY Electro Thermal Sonic E Syracuse..... 315-656-7414
 PA Packaging Technology Lionville..... 215-363-8830
 UT Free Energy Park City..... 801-649-7889
 WA National Co, Seattle..... 206-762-8832
 FR Tilly Ind Ville St Laurent PQ..... 514-331-4922

DISTRIBUTORS

CA Technical Methods Co Hermosa Beach..... 213-374-1789
 GA Productech Lilburn..... 404-925-1046
 IN Decorating Supplies & Equip Evansville..... 812-473-5050
 MO Thermo-Tec Kansas City..... 816-741-7316
 NY Zo-Tech Co Inc Roslyn Hts..... 516-265-0480
 FR Tilly Industries Pickering ON..... 416-831-2202

ULTRONIX INC BOX 1090

GRAND JUNCTION CO 81502
 TWX 910-929-6965..... 303-242-0810
 L WHITE EMP 250 ENG 5 \$5,000-\$10,000K
 AZ Westrep Phoenix..... 602-997-8899
 CA Westrep Anaheim..... 714-527-2822
 CA Westrep Santa Clara..... 408-988-8833
 CO West Inc Denver..... 303-773-8180
 FL Donato & Assoc Orlando..... 305-352-0727
 IL Parcom Inc Elk Grove Vlg..... 312-228-6360
 IA Stan Clothier Co Cedar Rapids..... 319-395-0245
 KS SW Wollard Co Parker..... 913-898-6552
 MA Anchor Engrg Newton Upper Falls..... 617-964-6205
 MN Stan Clothier Co Mnpls..... 612-944-3456
 MO Abrams & Assoc St Louis..... 314-569-0447
 NJ Danco Elctns Cherry Hill..... 609-424-5590
 NY J-Square Mktg Jericho..... 516-935-3200
 NY Apex Assoc Rochester..... 716-254-6050
 WA Eclipse Marketing Redmond..... 206-885-6991
 FR Source Electronics Rexdale ON..... 416-675-6235
 FR Smith-Paterson Winnipeg MB..... 204-885-1376
 FR Smith-Paterson Vancouver BC..... 604-438-7288
 FR Smith-Paterson Edmonton AB..... 403-484-3124
 FR Dage Corp Stamford CT..... 203-324-3123

DISTRIBUTORS

CA Petell Elect San Fernando..... 213-365-9841
 FL Impala Elect Tampa..... 813-885-4747
 FL Hammond Elect Orlando..... 305-849-6060
 MD Aztech Elect Glen Burnie..... 301-768-6010
 MA TLC Elect Burlington..... 617-273-1040
 NY L & S Elect Valley Stream..... 516-561-2474
 NY Jaco Elect Hauppauge..... 516-273-5500
 OH Electro Line Dayton..... 513-461-5683

ULVECO ELECTRONICS INC

323 VINTAGE PARK DR FOSTER
 CITY CA 94404..... 415-574-1100
 P STOPP EMP 500 ENG 85 OVER \$10,000K
 ADV PG 354,507

UMPCO INC 12300 INDUSTRY

ST BOX 5158 GARDEN GROVE
 CA 92645 TWX 910-596-1823..... 714-897-3531
 EMP 50 ENG 2 \$2,500-\$5,000K
 CT Techsel Inc Meriden..... 203-237-0869
 FL Technical Mktg Svc Vero Beach..... 305-231-2267
 GA Stratus Co Marietta..... 404-973-4446
 MD Kraft Elect Sales Towson..... 301-828-5838
 MI Rip The Rep Southfield..... 313-559-6844
 MI Custom Components Corp Grand Rapids..... 616-455-0660
 MN King Sales Co Mnpls..... 612-545-2558
 NY J A Keeneth Co Glen Head..... 516-676-1355
 TX Fasteners Et Al Inc Hurst..... 817-284-2277

UNDERWRITERS SAFETY DEVICE

ALLIED AMPHENOL PRODS
 7300 W WILSON AVE CHICAGO
 IL 60656 TWX 910-221-3474..... 312-867-4600
 R KARRY EMP 200 ENG 15 OVER \$10,000K
 AL El Tech Decatur..... 205-353-7899
 AZ O'Donnell Assoc SW Phoenix..... 602-944-9542
 AR Mya Inc Hot Springs..... 501-262-1365
 CA O'Donnell Assoc Torrance..... 213-539-9664
 CA O'Donnell Assoc San Jose..... 408-263-6500
 CO Harthun Assoc Englewood..... 303-792-5050
 FL CBC Elctns Coral Springs..... 305-755-1111
 GA El Tech Clarkston..... 404-493-3505
 IL Conrardy Co Park Ridge..... 312-692-2226
 KY Thunderbird Tech Sales Wichita..... 316-684-3941
 KS El Tech Ft Wright..... 606-331-3495
 LA Mya Inc Montgomery..... 205-284-1948
 MD Carber-Rambo Assoc Baltimore..... 301-377-6638
 MA Marty Flynn Assoc Chelmsford..... 617-649-3086
 MI Engineered Components Brooklyn..... 517-592-3236
 MN C A Listug Sales Co Mnpls..... 612-537-6740
 MO Thunderbird Tech Sales Maryland Hts..... 314-567-6488

NE Mya-Midwest Lee's Summit..... 816-525-1290
 NY Varrelman-Gorman Florham Park..... 201-882-9616
 NJ BKT Assoc Rochester..... 716-586-5814
 NC Heritage Sales Assoc Kernersville..... 919-996-4374
 OH Hitebrant Indus Sales Cleveland..... 216-333-5600
 PA White/Whiddett Co Edgemont..... 215-353-6343
 SC Heritage Sales Assoc Taylors..... 803-292-1723
 TX Mech-Tron Mktg Dallas..... 214-343-3786
 VA Candor Co Blacksburg..... 703-953-2197
 WA TEMCO NW Bothell..... 206-821-5434
 WI W D Engrg Sales Ltd Deerfield..... 312-948-7736

FR Andy Baumen Assoc Ltd Canada..... 416-828-2600
 FR GLE Inc Canada..... 416-252-5301

DISTRIBUTORS

CA Electro Components Hayward..... 415-783-5800
 FL A-A Elec Sply Lakeland..... 813-665-6941
 IL Lector Components Addison..... 312-543-1680
 MA Controller Service & Sales Boston..... 617-269-1300
 MI Englewood Elec Sply Jackson..... 517-782-7121
 MO National Elec Sply St Louis..... 314-241-4600
 NE Scott Elect Lincoln..... 402-466-8221
 NY R Baker Elect Rochester..... 716-586-9164
 NC Control Design Supply Pineville..... 704-588-4410
 OR Tek-Electric Control Portland..... 503-246-5451
 PA Royal Elec Sply Phila..... 215-221-1200
 TN Techni-Tronics Chattanooga..... 615-875-5449
 TX Fuses Inc Dallas..... 214-341-6407
 WI A-A Elec Sply Cedarburg..... 414-377-8000

UNGAR DIV ELDON INDUSTRIES INC

100 W MANVILLE ST COMPTON
 CA 90224..... 213-774-5950
 J KINNON EMP 200 ENG 5
 AZ Rich Sales Co Scottsdale..... 602-941-1475
 CA Ungar Sales Assoc Gardena..... 213-538-2811
 CA McBride Marketing Walnut..... 714-594-3464
 CO Mid-Mtn-Rep Colo Springs..... 303-998-1389
 CT Neff Co Woodstock..... 203-974-1281
 FL Seacom Sales Co Ft Lauderdale..... 305-486-0260
 IN Robt Misk Co Indpls..... 317-842-3400
 KS Thos L Dowell & Assoc Overland Pk..... 913-648-7373
 MA Neff Co Lunenburg..... 617-582-4216
 MI Robert Misk Co Southfield..... 313-354-3310
 MO T L Dowell & Assoc St Louis..... 314-849-4234
 NY Bittan Assoc, Inc Oceanside..... 516-678-6222
 NY Leonard D Allen Inc Syracuse..... 315-437-8387
 OH Berberich Assoc Inc Dayton..... 513-433-0342
 PA Fahy Mktg Assoc Marlton..... 609-654-1022
 TX Rich Sales Co Rockwall..... 214-257-0761
 WA Andrew Sproul & Assoc Seattle..... 206-789-3300
 FR Eldon Industries of Can Markham ON..... 416-495-9407

UNHOLTZ-DICKIE CORP 6 BROOKSIDE

DR WALLINGFORD CT 06492
 TWX 643-802..... 203-265-3929
 K UNHOLTZ EMP 48 ENG 16
 CA Unholtz-Dickie Corp Redondo Bch..... 213-316-0275
 TX Mott Assoc Houston..... 713-777-5773
 FR Provan Assoc St Laurent PQ..... 514-332-3230

UNICO INC 3725 NICHOLSON RD

FRANKSVILLE WI 53216
 TWX 910-271-2385..... 414-886-5678
 A ENGLE EMP 240 ENG 80 OVER \$10,000K
 NJ Unico Inc Hackettstown..... 201-852-5223

UNICORN ENGINEERING CO

6201 HARWOOD AVE OAKLAND
 CA 94618..... 415-428-1626

UNICORP 291 CLEVELAND ST ORANGE

NJ 07050..... 201-674-1700
 B LEVINE EMP 85 ENG 2 \$2,500-\$5,000K
 ADV PG 208

AZ Foley Tallent & Lee Tempe..... 602-894-2345
 CA Bart Budge Assoc Laguna Niguel..... 714-831-7721
 CA Bart Budge Assoc Mt View..... 415-961-0940
 CA Bart Budge Assoc San Diego..... 619-587-0131
 IL Claeson Assoc Palatine..... 312-359-7230
 MA Nordstrom Assoc Box 125 Shrewsbury..... 617-842-8646
 MN Termatech 8262 Rhode Is Av Bloomington..... 612-941-8555
 NJ Rizzo Assoc West Orange..... 201-731-0974
 NY Carnes Assoc Melville..... 516-694-1600
 NC M & M Sales Charlotte..... 704-529-0442
 OH C A Robinson Co Cleveland..... 216-473-6044
 OH C A Robinson Co Dayton..... 513-278-7969
 PA Baldwin Co Box 1918 Media..... 215-565-6044
 TX Pat Dorman & Assoc Austin..... 512-452-5371

UNIFAB INC BOX 609 HAMPSTEAD

NH 03841..... 603-329-8205
 K ATKINSON EMP 17 ENG 3 \$1,000-\$2,500K
 MA L Woods North Brookfield..... 617-599-2394

UNIFORM TUBES INC 200 W 7TH AVE

COLLEGEVILLE PA 19426
 TWX 510-660-6107..... 215-539-0700
 C P HAFNER EMP 400 ENG 10 OVER \$10,000K
 CA A F Mason Santa Clara..... 408-249-4228
 CA D Robinson Newport Beach..... 714-642-5950
 CO Romtech Inc Englewood..... 303-779-0291
 CT J Anderson Durham..... 203-349-9304
 FL Ed Furey Assoc N Palm Beach..... 305-848-2037
 GA K Machen Milledgeville..... 404-485-6907
 IL D Gabel Westmont..... 312-850-9881
 IN McCaw Industrial Sales Nobelsville..... 317-877-5300
 KS G E Jensen Overland Park..... 913-341-4017
 MA J W Murphy Assoc Seekonk..... 617-761-7153
 MI Eberhardt & Assoc Southfield..... 313-642-5705
 MN C J Tabery Minneapolis..... 612-854-0727
 NJ W Meringer Flanders..... 201-575-8611
 NY A S Baregard Rochester..... 716-546-7280
 NY W Meringer Flanders..... 201-575-8611
 NC J Laxton Huntersville..... 704-875-9382
 OH W Helm Westerville..... 614-275-6166
 PA T Lieb Malvern..... 215-539-0700

UNIFY CORP 4000 KRUSE WAY PL

LAKE OSWEGO OR 97034
 TWX 469220..... 503-635-6265
 D WESTBROOK \$2,500-\$5,000K

UNILATOR TECHNICAL CERAMICS INC		
6290 SUNSET BLVD LOS ANGELES		
CA 90028 TWX 910-321-2903	213-463-5618	
G MEYER		
AZ Qualtech Inc Phoenix	602-437-3823	
CA Silicon Valley Sales San Jose	408-286-7510	
IL Bierhaus Sales La Grange Pk	312-354-5100	
MD Stitzer Assoc Baltimore	301-823-2600	
MA Carlisle Tech Svcs Waltham	617-890-8800	
NH Carlisle Tech Svcs Amherst	603-673-4690	
NJ Ballou Inc Ridgewood	201-444-6990	
NM Qualtech Albuquerque	505-243-5605	
NY R P Kennedy Co Rochester	716-271-6322	
OH Scientific Systems W Carrollton	513-859-3852	
OR SPS Electronics Portland	503-297-6199	
PA SPS Electronics Portland	215-644-5500	
TX Eagle Marketing Inc Richardson	214-238-5383	
WA SPS Electronics Redmond	206-323-4140	
WI Bierhaus Sales Milwaukee	414-963-0318	

UNIMATION INC SHELTER ROCK LA		
DANBURY CT 06810	203-744-1800	
M LEININGER EMP 700		

DISTRIBUTORS

AZ Adams Machinery Phoenix	602-267-9668	
CA BHS Machinery Fremont	415-490-3511	
CO Geoffrey Co Denver	303-756-3684	
FL Mac Gregor Assoc Coral Springs	305-752-1924	
GA Mac Gregor Assoc Marietta	404-973-1692	
IL Marshall Huschar Broadview	312-343-7155	
IA Satterlee Cedar Rapids	319-366-7778	
KS Crossland Machinery Wichita	316-685-8551	
KY Gosiger Machinery Louisville	502-368-6574	
MN Satterlee Mpls	612-370-2511	
MO Nuetzel Machinery St Louis	314-567-3131	
NE Crossland Machinery Omaha	402-571-2286	
NM Adams Machinery Albuquerque	505-898-1457	
NC Mac Gregor Assoc Charlotte	704-542-6001	
OH Gosiger Machinery Dayton	513-228-5174	
OK Crossland Machinery Tulsa	918-622-9432	
OR Star Machinery Portland	503-226-3011	
PA Tri-State Machinery Pittsburgh	412-344-6500	
WA Star Machinery Renton	206-251-8044	
FR CAE Morse Ltd Mississauga ON	416-625-5161	
FR CAE Morse Ltd Pointe Claire PQ	514-866-7541	

UNIMAX SWITCH CORP BOX		
152 IVES RD WALLINGFORD		
CT 06492 TWX 710-476-1397	203-269-8701	
J LARSEN EMP 398 ENG 10 OVER \$10,000K		
ADV PGS 438,452		

CA M A Stolaroff Co Brea	714-529-0866	
CA Ewing-Foley Inc Los Altos	415 941-4525	
CO Computech Englewood	303-773-3981	
CT Zaslav Sales Co Bloomfield	203-242-7781	
FL J R Controls Tampa	813-961-9478	
IL Wasson-Gallagher Lisle	312-963-5954	
IN O H Bromberg & Assoc Ft Wayne	219-744-1636	
KY O H Bromberg & Assoc Louisville	502-454-8916	
MD L G White & Co Silver Spring	301-434-1555	
MI Greiner Assoc Grosse Pt Park	313-499-0188	
MN Jos Co/Mellus Inc Mpls	612-861-3343	
MO Hill & Co St Louis	314-432-1136	
NJ Grimm Siegel Assoc W Caldwell	201-575-9300	
NY Nycorn Inc East Syracuse	315-437-8343	
NC L G White & Co Winston Salem	919-725-3612	
OH O H Bromberg & Assoc Cincinnati	513-771-9333	
OH J C Hofstetter Co Medina	216-241-4880	
PA White-Whiddett Broomall	215-353-6343	
SC Sunbelt Sales Greenville	803-877-0771	
TN Sunbelt Sales Taft	615-425-6164	
TX W Pat Fralia Co Bedford	817-267-3577	
WA Anderson Assoc Mercer Island	206-232-0484	
FR RFQ Ltd Toronto ON	416-595-0616	

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AL Southern Controls Montgomery	205-277-5030	
AL Forbes Dist Decatur	205-353-4762	
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AK Alaska Elect Sply Anchorage	907-563-3774	
AZ Electro Comp Dist of AZ Phoenix	602-258-2665	
AZ Continental Light & Supply Phoenix	602-263-6000	
AZ Electronic Supply Tempe	602-258-4769	
AZ Newark Elect Tempe	602-968-7441	
AZ Newark Elect Tucson	602-628-7891	
AR Southern Electric Fort Smith	501-646-5500	
AR Newark Elect Little Rock	501-225-8130	
CA Master Distributors Santa Monica	213-452-1229	
CA Arndt Elect Belmont	415-592-6718	
CA Calif Switch & Signal Gardena	213-538-9830	
CA Lodan Belmont	415-592-4600	
CA Pacific Switch Van Nuys	213-873-4802	
CA Cypress Elect San Jose	408-435-8400	
CA Selectra Switch Covina	818-967-4119	
CA Newark Elect Inglewood	213-671-7066	
CA Electronic Supply San Diego	619-693-8222	
CA Zack Elect Sacramento	916-446-3131	
CA RPS/Cypress Buena Park	714-521-8300	
CO Fiestels Elect Sply Denver	303-629-1312	
CO Newark Elect Denver	303-757-3351	
CO Cypress Elect Wheat Ridge	303-431-2622	

CT Atlantic Switch Cont W Hartford	203-525-6907	
CT J V Elect East Haven	203-469-2321	
CT Sager Elec Sply Wallingford	203-265-4600	
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FL Atlas Elect Hialeah	305-885-8941	
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IL Conectrix Inc Wheaton	312-653-1460	
IL Newark Elect Chicago	312-638-4411	
IL Lectro Components Carol Stream	312-690-0520	
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IA Ramco Co W Des Moines	515-225-6933	
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ME Rockingham Elect Sply Co Portland	207-772-4614	
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MI Specialties Mfg Co St Clair Shores	313-771-2700	
MI Newark Elect Oak Park	313-967-0600	
MI Joel Co Hopkins	612-935-6202	
MN Newark Elect Mpls	612-331-6350	
MO Western Extralite Maryland Hts	314-432-4560	
MO Midwest Switch & Contrls St Louis	314-567-7776	
NH Sager Elect Salem	603-898-1348	
NH Atlantic Switch Nashua	603-880-1971	
NH Jersey Switch Mt Laurel	609-778-8190	
NJ Relay Specialties Oakland	201-797-3313	
NJ Feldman Bros Elect Paterson	201-742-7330	
NV Universal Elect Sply Audubon	215-627-4646	
NY AED Distb Sodius	716-884-6561	
NY Summit Distb Buffalo	716-884-3450	
NY Switches Unltd Woodside	212-478-5000	
NY Electronic Equip Co Hempstead	516-538-5510	
NY Summit Dist Rochester	716-334-8110	
NY Key Components Bohemia	516-567-7500	
NY Gersh Geneva	516-789-4505	
NY Sager Elect Happaugue	516-348-1300	
NC Kirkman Elect Winston-Salem	919-722-9131	
NC Dixie Elect Charlotte	704-377-4348	
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OH Cartessa Corp Shandon	513-738-4477	
OH Ohio Switch Westerville	614-885-0319	
OH Trexon Elect Valley View	216-447-1050	
OH Schuster Elect Twinsburg	216-425-8134	
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OR Radio Inc Tulsa	918-587-9123	
OK Johnstone Corp Portland	503-231-4833	
PA Herbach & Rademan Phila	215-426-1700	
PA Kass Drexel Hill	215-789-7700	
SC Dixie Elect Columbia	803-779-5332	
RI Wilkinson Bros Dallas	214-941-9963	
RI J V Elect Houston	713-447-5800	
TN Townsend Supply Jackson	901-422-6585	
TX Texas Switch Dallas	214-357-1768	
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TX Watson Elect Dallas	214-742-8441	
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VA Tech Dist Inc Alexandria	703-971-8979	
VA Peoples Elect Supply Roanoke	703-342-8933	
VA Hanover Controls Ashland	804-798-2007	
WI Taylor Elect Mequon	414-241-4321	
FR Motion Cont Dev Ltd Burlington ON	416-637-9369	
FR Canadian Dynamics Nova Ltd Vancouver BC	604-872-8106	

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39 OLD RIDGEBURY RD DANBURY		
CT 06817-0001	203-794-5300	

UNIQUE WIRE WEAVING CO INC		
762 RAMSEY AVE HILLSIDE		
NJ 07205	201-688-4600	
L WHERRITY EMP 20 ENG 2		

UNIT DESIGN INC 1140 E		
VALENCIA DR FULLERTON		
CA 92631	714-526-0800	
J NOBLE EMP 5 ENG 1 \$1,000-\$2,500K		

UNITED CHEMI-CON INC 9801		
W HIGGINS RD ROSEMONT		
IL 60018 TWX 910-253-2964	312-696-2000	
T MATSUBARA OVER \$10,000K		
AL R O Whitesell Huntsville	205-883-5110	

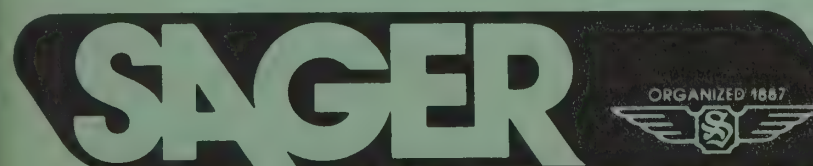
AZ Thorson Desert Sales Scottsdale	602-998-2444	
CA Straube Assoc Mt View	415-969-6060	
CO Straube Assoc Westminster	303-426-0890	
FL Semtronix Assoc Altamonte Springs	305-831-8233	
ID Earl & Brown Boise	208-343-9886	
IL M Gottlieb Assoc Chicago	312-775-1151	
KS Lowell-Kangas & Assoc Shawnee Mission	913-631-3515	
MD Pro-Rep Inc Baltimore	301-653-3600	
MA John E Boeing Co Lexington	617-862-2500	
MI Phil Lepofsky & Assoc Southfield	313-569-6080	
MN J G Twist & Co Bloomington	612-835-2120	
NJ TAI Medford	609-953-0770	
NM Straube Assoc Albuquerque	505-292-0428	
NY Franklin Sales Corp Pittsford	914-268-8251	
NY S-J Assoc Jamaica	212-291-3232	
NC Tingen Technical Sales Raleigh	919-781-1100	
OH Makin Assoc Cincinnati	513-871-2424	
OR Earl & Brown Co Portland	503-245-2283	
TX Amoss & Rizzos Grand Prairie	214-647-8225	
UT Straube Assoc SLC	801-263-2640	
WA Earl & Brown Co Seattle	206-284-1121	
FR Haltronics Ltd Oakville	416-844-2121	

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AL Contact Elect Inc Huntsville	205-881-9321	
AZ Bell Ind Tempe	602-966-7800	
CA Nesco Passive Chatsworth	818-341-1745	
CA National Capacitor Sply Gdn Grove	714-892-7749	
CA R M Elect Santa Clara	408-496-0411	
CA NESCO Santa Ana	714-541-6184	
CA Projections Unltd Santa Ana	714-261-2323	
CA Capacitors Unltd San Jose	408-946-7676	
CO Bell Ind Wheatridge	303-424-1985	
CT Glynn Elect Inc Pawcatuck	203-599-5373	
FL Hammond Elect Orlando	305-849-6060	
FL Hammond Elect Ft Lauderdale	305-973-7103	
GA Hammond Elect Norcross	404-449-1996	
IL Classic Components Sply Northbrook	312-272-9650	
IL NEP Elect Chicago	312-625-8400	
IN Classic Comp Sply Indpls	317-872-4777	
MA Interface Elect Corp Hopkinton	617-435-6858	
MA Glynn Elect Inc Middleboro	617-947-4262	
MA TLC Electronics Burlington	617-273-0140	
MA JV Electronics Wilmington	617-273-4300	
MI Repton Livonia	313-525-2700	
MN Joel Co Hopkins	612-935-6202	
NH Glynn Electronics Salem	603-893-8313	
NJ J-Mar Elect Clifton	201-772-6400	
NM Bell Ind Albuquerque	505-292-2700	
NY Jaco Elect Hauppauge	516-273-5500	
NY Masline Elect Rochester	716-546-5373	
NY Prime Components Hauppauge	516-582-6258	
NY SAI Farmingdale	516-293-2710	
NY Hammond Elect Greensboro	919-275-6391	
OR Repton Elect Worthington	614-436-6675	
OR Moore Electronics Lake Oswego	503-684-3100	
OR Bell Ind Lake Oswego	503-241-4115	
PA VSH Electronics Exton	215-363-2250	
PA ECI York	717-846-5334	
SC Hammond Elect Greenville	803-233-4121	
TX Jaco Elect Richardson	214-235-9575	
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TX Captronics Inc Dallas	214-340-3592	
TX Kent Elect Houston	713-780-7770	
TX Kent Elect Richardson	214-669-2600	
WA Bell Ind Bellevue	206-747-1515	
WI Classic Components Sply New Berlin	414-786-5300	
WI NEP Elect Inc New Berlin	414-785-9100	
FR Electro Sonic Inc Willowdale ON	416-494-1666	
FR Carsten Elect Ltd Ottawa ON	613-729-5138	
FR Carsten Elect Ltd St Laurent PQ	514-334-8321	
FR Future Elect Pte Clare PQ	514-694-7710	
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FR Zentronics Richmond BC	604-273-5575	
FR Zentronics Brampton ON	416-451-9600	
FR Zentronics St Laurent PQ	514-735-5361	

UNITED CIRCUITS/VERMONT INC		
BOX 1890 TECHNOLOGY DR		
BATTLEBORO VT 05301	802-257-4571	
B CRAWFORD EMP 45 ENG 1 \$2,500-\$5,000K		
CT R M Jones & Co Farmington	203-677-2654	
MA United Circuits Inc Dracut	617-957-1505	
NY Micro Component Sales Utica	315-733-2460	

UNITED DETECTOR TECHNOLOGY		
12525 CHADRON AVE HAWTHORNE		
CA 90250 TWX 18-2458	213-978-0516	
M FEENEY EMP 180 ENG 30 OVER \$10,000K		
CO Eggeman Assoc Arvada	303-433-5063	
GA Quantum Measurements Atlanta	404-351-3531	
IL BEA Electro Optics Des Plaines	312-298-1420	
MA Emtek Assoc Quincy	617-770-2557	
NJ Emtek Assoc Nutley	201-667-8114	
NY Irondequoit Indus Rochester	716-544-6257	
NC Quantum Measurements Chapel Hill	919-933-7408	
OH EMA Inc Centerville	513-435-2086	
TX Seaton Corp Carrollton	214-380-0414	



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85 SCHOOL ST WATERTOWN
MA 02172 TWX 092-2445 617-926-1000
G REIS EMP 425 ENG 15 OVER \$10,000K

AL Control Specialists Birmingham 205-991-7274
AK Arctic Technology Anchorage 909-277-6418
AZ Wisco Equip Co Phoenix 602-243-4361
CA A Biederman Inc Glendale 818-246-8431
CA A Biederman Inc Mt View 415-967-7212
CO Frontier Ind Controls Denver 303-534-5065
CT Meriden-Cooper Corp Meriden 203-237-8448
FL Control Center Orlando 305-896-6831
GA Process Supp & Acces Chamblee 404-458-4456
HI Atecs Corp Honolulu 808-845-2991
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MN Fl-Systems Co Eden Prairie 612-944-2900
MO Central Controls Co Maryland Hts 314-991-1440
NE Deco Eng Prods Omaha 402-341-4836
NJ United Elec Controls Co Edison 201-548-7100
NY D S Reynolds Co E Aurora 716-655-1600
NY AFTA Controls Inc Baldwinville 315-638-0453
NC A C Controls Charlotte 704-545-4500
OH A E Ehrke & Co Solon 216-248-9400
OK A-Tech Inc Tulsa 918-583-7227
OR Tech Mark Co Clackamas 503-655-6117
PA Power Assoc Phila. 215-425-6515
TN A C Valve & Control Knoxville 615-588-6568
TX United Elec Controls Co Houston 713-875-0174
UT Western Controls No Salt Lake 801-292-5900
VA Automatic Controls of VA 804-321-7177
WA Technical Controls Inc Bellevue 206-454-7630
WV Process Inst Inc Charleston 304-776-6200
WI Durable Controls Hartland 414-367-4900

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IL Marshall Wolf & Assoc Algonquin 312-658-8130
MA Eastonix Bedford 617-275-5775
MI L H Dickelman Southfield 313-583-8210
MN Hallock Co Edina 612-835-7100
MO Mike Puchalla Inc St Louis 314-531-7329
NJ AP Tech Sales Palisades Pk 201-461-8875
OH Concord Controls Chardon 216-289-2559
PA John J Collins Co Pittsburgh 412-829-1289
TX Houston Tech Sales Stafford 713-530-0087

UNITED MICROWAVE PRODUCTS INC
22129 S VERNON AVE TORRANCE
CA 90502 TWX 910-349-6208 213-320-1244
E JACOBS EMP 25 ENG 2 \$1,000-\$2,500K

DISTRIBUTORS
CA Sierra West San Jose 408-946-6044

UNITED MINERAL & CHEMICAL CORP
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NY 10013 TWX 710-581-5799 212-966-4330
EMP 55 ENG 3 OVER \$10,000K
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CA Fischer & Assoc Santa Clara 408-733-7350
CA Tech-Ser Inc Mtn View 415-969-9020
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TN L & D Seymour 615-573-6511
UT Christec Midvale 801-566-3694
WI Saffro & Assoc Lake Mills 414-648-2605

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TWX 39-1918754 313-772-0700
J GARZONI EMP 18
CA United Resin Corp Santa Ana 714-662-2404

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TWX 92-2445 617-926-1009
J KOSTER EMP 15 ENG 2 \$1,000-\$2,500K

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CA G M Cooke Assoc Berkeley 415-845-5110
PA Advance Inst Bethel Park 412-835-6200

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W RYERSON RD NEW BERLIN
WI 53151 414-782-0340
M VICK

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MI Amkor Inc 17348 W 12 Mile Rd Southfield
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OH Matherly & Assoc 16 W Wenger Englewood
RI Gerard Foreman Co Box 40 Kingston

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TX 76110 TWX 910-893-4084 817-921-3014
J HENDERSON EMP 55 ENG 1 \$1,000-\$2,500K

U S DIGITAL 12371 KENSINGTON RD
LOS ALAMITOS CA 90720 213-594-0094
D MADORE

U S ELECTRONICS CORP 2526
SPRINGFIELD AVE UNION
NJ 07088 201-688-0111
G YOUNG EMP 8 ENG 2 \$2,500-\$5,000K
ADV PG 103

NJ Harry Thaw Sales Florham Pk 201-992-2711

U S INSTRUMENT RENTALS INC
2988 CAMPUS DR SAN MATEO
CA 94403 415-572-6600
EMP 300 ENG 25 OVER \$10,000K

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CA US Inst Rentals San Mateo 415-579-0911
CO US Inst Rentals Englewood 303-779-0523
IL US Inst Rentals Inverness 312-991-9770
MD US Inst Rentals Gaithersburg 301-258-9888
NJ US Inst Rentals Edison 201-494-1500
TX US Inst Rentals Richardson 214-234-3392

U S LASER CORP 825 WINDHAM CT N
WYCKOFF NJ 07481 201-848-9200
J TOBIN EMP 20 ENG 6 \$1,000-\$2,500K

CO K R Brown & Assoc Boulder 303-499-3277
FL Ferrari Assoc Orange Park 904-269-8033
IL Physics Equipment Downers Grove 312-960-4054
IN Science Sales Inc Ossian 219-622-7383
KS Ad Pak Inc Shawnee Mission 913-831-0338
MD Laser Systems Co Towson 301-296-6093
MA Enmark Assoc Boston 617-720-4807
NH United Sales Agency Peterborough 603-924-7084
NJ Enmark Assoc Nutley 201-667-8114
NY Cook & Weil NYC 212-246-6599
OH Science Sales Inc Brunswick 216-273-4429
TX Sanders & Sons Plano 214-423-0031

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BILLERICA MA 01862 TWX 951372 617-663-6566
R DUFFY EMP 20 ENG 2 \$1,000-\$2,500K

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CA 91352 TWX 910-498-4998 818-767-6770
D HOSMER EMP 16

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CA F & F Assoc Cupertino 408-446-2349
CA Clemick-Neenan & Assoc 818-895-2431
CO High Plains Mktg Englewood 303-792-2020
FL EPM Corp Margate 305-977-0331
IL Gassner & Clark Co Schaumburg 312-882-8608
IA MSB Assoc Marion 319-377-6261
KS MSB Assoc Shawnee Mission 913-432-2131
MD Thiern Assoc Ellicott City 301-465-4776
MA Hatch Assoc Randolph 617-963-3306
MN Merrill Franklin Co Bloomington 612-854-9446
MO MSB Assoc 314-946-5577
NY Kaelber & Mack Commack 516-499-2924
NY Reagan/Compar Albany 518-489-7408
OH Baehr Greenleaf & Assoc Lakewood 216-221-9030
PA Sapiomas Assoc Broomall 215-353-7267
TX O M Sales Inc Richardson 214-690-6741
WA Gentech Redmond 206-881-6456

DISTRIBUTORS
TX Southwest Electronics Stafford 713-491-4900

U S PLASTIC CORP 1390 NEUBRECHT
RD LIMA OH 45801 419-228-2242
E LEATHERMAN EMP 43 ENG 1 OVER \$10,000K

U S PRECISION LENS INC
3997 MCMANN RD CINCINNATI
OH 45245 TWX 810-461-2739 513-752-7000
A HOFF EMP 350 ENG 20 OVER \$10,000K

U S ROBOTICS INC 8100 N
MCCORMICK BLVD SKOKIE
IL 60076 312-982-5010
EMP 250 ENG 30 \$5,000-\$10,000K

DISTRIBUTORS
CA Vitek San Marcos 619-744-8305
CA Tek-Aids Pleasanton 415-463-1410
CA Vitek Santa Clara 408-496-6677
CO Computer Resources Grp Englewood 303-771-8930
CO R2 Dist of Co Englewood 303-799-9292
FL Gentry Assoc Orlando 305-859-7450
GA Terminals Plus Alpharetta 404-475-6686
IL Arrow Electronics Schaumburg 312-397-3440
IL Tek-Aids Ind Arlington Hts. 312-870-7400
IL Micro Inc Bensenville 312-350-1300
MD Advanced Data Prods Gaithersburg 301-424-9490
MA Arrow Electronics Woburn 617-938-8700
NY O G Innes New York 212-679-6180
TX Horizon Technology Richardson 214-680-9600
WA Arrow Bellevue 203-643-4800
FR MDI Micro Distributing 604-941-0622
FR Coquitlam BC 416-451-9600
FR Zenronics Brampton ON. 416-451-9600

UNITED STATES TESTING CO INC
1415 PARK AVE HOBOKEN
NJ 07030 TWX 12-6493 201-792-2400
R GIGLIO EMP 950 ENG 42 OVER \$10,000K
CA UST Co Los Angeles 213-723-7181
IL UST Co Wheeling 312-520-3600
OK U S T Co Tulsa 918-437-8333
WA U S T Co Richland 509-375-3131

US TOYO FAN CORP 4915 WALNUT
GROVE AV SAN GABRIEL CA 91776
TWX 910-589-1540 818-287-5297
B ROCKWELL EMP 20 ENG 1 \$1,000-\$2,500K
AL Par Marketing Huntsville 205-837-6534

AZ Delta Elctns Sales Tempe 602-252-4222
CA Noo Rep Tech Sales San Diego 619-483-4861
CO Spectrum Mktg Denver 303-480-9991
FL Temco Sales Tampa 813-855-7566
GA Par Marketing Marietta 404-953-4168
IL Martec Assoc Elk Grove 312-956-8090
MA Technical Mktg Svcs Westboro 617-366-6655
MI W R Hummon & Assoc Farmington Hills 313-474-0661
MN Gaffney Sales Co Osseo 612-255-5484
MO Midtec Assoc Florissant 314-837-5200
NY Fitzelle Assoc Cooperstown 607-547-9333
NY Livera-Polk Assoc Glen Head 516-759-9300
NC Par Marketing Raleigh 919-872-2726
OR Comtec Milwaukie 503-654-6626
PA Dalbrook Corp Horsham 215-441-8380
TX Zonk & Assoc Richardson 214-238-7651
WA Comtec Bellevue 206-453-1188
FR Pipe-Thompson Ltd Islington ON. 416-236-2355

DISTRIBUTORS
AZ Arizona Comp Co Phoenix 602-279-9446
AZ R V Weatherford Phoenix 602-272-7144
CA Cypress Elect San Jose 408-945-8400
CA Mock III Sales Co San Diego 619-560-0515
CA Cypress Elect Torrance 213-533-6005
CA R V Weatherford San Diego 619-695-1700
CA R V Weatherford Sunnyvale 408-738-8694
CO Wintronics Denver 303-934-2400
CO R V Weatherford Denver 303-428-6906
FL Intertec Comp Longwood 305-834-7777
MA TMSC Elect Spy Westboro 617-366-8462
NJ Index Sicklerville 609-629-3158
NY Multimetrics Co Elmsford 914-347-3667
NY Livera-Polk Assoc Glen Head 516-759-9300
OR Hansen Elect Beaverton 503-642-4455
TX Zec Sales Richardson 214-238-7651
WA R V Weatherford Seattle 206-575-1340

UNITED TECH BOOK CO BOX 1658
LONGMONT CO 80502 303-651-3184
B HILL EMP 2 ENG 1 \$250-\$500K

UNITED TECHNOLOGIES AUTOMOTIVE
GRP TERMINAL PRODS BOX
929 1250 SABINE ST HUNTINGTON
IN 46750 TWX 23-2464 219-356-2700
J KIRKPATRICK EMP 250 ENG 50 OVER \$10,000K

UNITED TELECONTROL ELECTRONICS
INC 3500 SUNSET AVE
ASBURY PARK NJ 07712
TWX 132-481 201-922-1000
P BOGDANOVICH EMP 165 ENG 7 OVER \$10,000K
CA Mitronics Torrance 213-323-7934

UNITEK CORP INDUS EQUIP OPER
1820 S MYRTLE AVE MONROVIA
CA 91016-5093 TWX 910-585-1836 818-574-7800
R RING EMP 1350 ENG 15 OVER \$10,000K

AZ Phase Four Tempe 602-966-2018
CA Mytech Assoc Santa Clara 408-727-4240
CA Aloha Assoc Pasadena 818-792-7700
CO Aurora Equip Co Aurora 303-343-6882
CT Tech-Reps E Hartford 203-282-0781
FL H R Gross & Co Clearwater 813-446-6649
IL Millex Sales Corp Elmhurst 312-941-7100
IN Allied Weld-Craft Indpls. 317-253-5233
MD Precision Sales Co Baltimore 301-828-4897
MA Tech-Reps Inc Reading 617-944-6800
MI Walch Engineering Spring Lake 616-846-2944
MN Automation Products Golden Valley 612-545-8718
MO PMI Sales St Louis 314-894-0073
NJ Blason Enterprises Voorhees 609-767-6733
NM La Belle Ind Sales El Paso 915-584-5729
NY The Solder Pot Guilderland 518-355-1829
NC LNP Sales Pineville 704-541-2568
OH KDF Co Solon 216-248-8010
OR Component Technology Portland 503-292-1518
PA Blason Enterprises Haverford 609-767-6733
TX P J Scanlon Co Dallas 214-231-4661
FR Subtec Ltd Ottawa, ON 613-738-1470
FR Sudouest Import Sales Santurce PR 809-726-3137

UNIT INDUSTRIES INC 1140
E VALENCIA DR FULLERTON
CA 92631 714-871-4161
J ABOUCHAR EMP 40 ENG 3 \$1,000-\$2,500K

UNITRACK DIV CALABRO INDUSTRIES
INC 1372 ENTERPRISE DR,
BOX 1927 WEST CHESTER
PA 19380 TWX 510-663-0000 215-692-0800
M OCONNOR EMP 50 ENG 2
AZ Finn-Pat Co Phoenix 602-954-0301
CA Ruby Sales Co San Jose 408-224-0881
CO Delltron Co Denver 303-373-0300
FL H A Inc Coral Springs 305-752-7520
GA Magaro & Assoc Atlanta 404-451-8862
IL Lincoln Hodges & Assoc Des Plaines 312-297-3810
IN Akron Corp Fort Wayne 219-747-3650
MA Henik Assoc Northboro 617-993-3127
MI C A Geer Co Kentwood 616-534-9449
MN Countrymen Assoc St Paul 612-645-9151
MO Cairns Sales Blue Springs 816-229-1404
NJ Churchill Assoc Clinton 201-735-8971
NY Hingston Walsh Assoc Larchmont 914-834-5781
NY Lenard Co Syracuse 315-479-9191
OH Augnat Assoc Akron 216-273-1211
PA Rivco January King of Prussia 215-265-5211
TX Air Quip/Robleco Richardson 214-234-3285
VA Eastern Components Timonium 301-561-5811

DISTRIBUTORS
CA El-Com Inc Cerritos 213-404-2961
CO Integrated Elect Denver 303-292-6121
GA Trans Southern Atlanta 404-451-4425

MA	Papi Supply Northboro.....	617-393-3127
MA	Rush Indus Woburn.....	617-335-2400
MI	S-F Elect Sply Co Grand Rapids.....	616-459-0216
NC	Kirkman Elect Winston-Salem.....	919-724-0541
OH	ESCO Inc Dayton.....	513-228-1133
OH	Televox Dayton.....	513-294-4499
PA	Rem Elect Sply Erie.....	814-453-5626

**UNITRODE CORP 5 FORBES RD
LEXINGTON MA 02173
TWX 710-326-6509.....617-861-6540
F MYERS EMP 2000 ENG 100 OVER \$10,000K
ADV PG 216**

CA	Unitrode Corp Tarzana.....	818-705-8085
CA	Unitrode Corp Santa Ana.....	714-261-1546
CA	Unitrode Corp San Jose.....	408-294-4210
CO	Unitrode Corp Littleton.....	303-972-2693
FL	Unitrode Corp Tampa.....	813-932-5807
IL	Unitrode Corp Arlington Hts.....	312-394-5240
MD	Unitrode Corp Columbia.....	301-995-0594
MA	Unitrode Corp Wakefield.....	617-245-3010
NY	Unitrode Corp East Northport.....	516-271-3110
TX	Unitrode Corp Dallas.....	214-991-8555

UNITRON INC 10925 MILLER RD DALLAS TX 75238 TWX 882511.....	214-340-8600
R BEUTEL EMP 100 ENG 7 \$5,000-\$10,000K	
CA A Freebury Fallbrook.....	619-728-9710
VA C Hansen Arlington.....	703-379-0331

UNITRONIX CORP 50 COUNTY LINE RD SOMERVILLE NJ 08876 TWX 833184.....	201-231-9400
J MURAWSKI EMP 42 ENG 10 OVER \$10,000K	
FL Unitronix Corp Winter Park.....	305-671-9600
NY Unitronix Corp New York.....	212-967-2920

UNIVERSAL AIR FILTER CO BOX 853 EAST ST LOUIS IL 62203.....	618-271-7300
P DEIBEL	

UNIVERSAL CORP 730 INDEPENDENT AVE GRAND JUNCTION CO 81505.....	303-242-5267
R VAN HOUTEN EMP 12 ENG 1 \$500-\$1,000K	

UNIVERSAL DATA SYSTEMS 5000 BRADFORD DR HUNTSVILLE AL 35805 TWX 810-726-2100.....	205-837-8100
J JURENKO EMP 750 ENG 80 OVER \$10,000K	

AZ Universal Data Sys Mesa.....	602-820-6611
CA Universal Data Sys Mt View.....	415-969-3323
CA Universal Data Sys Tustin.....	714-669-8001
CA Universal Data Sys Thousand Oaks.....	805-496-3777
CO Universal Data Sys Aurora.....	303-368-9000
FL Universal Data Sys Brandon.....	813-684-0615
GA Universal Data Sys Roswell.....	404-998-2715
IL Universal Data Sys Glenview.....	312-998-8180
MD Universal Data Sys Silver Spring.....	301-942-8558
MA Universal Data Sys Framingham.....	617-875-8868
MI Universal Data Sys Ypsilanti.....	313-483-2682
MN Universal Data Sys Minnetonka.....	612-938-9230
MO Universal Data Sys St Louis.....	314-434-4919
NJ Universal Data Sys East Brunswick.....	201-238-1515
NY Universal Data Sys Uniondale.....	516-222-0918
OH Universal Data Sys Westerville.....	614-895-3025
PA Universal Data Sys Blue Bell.....	215-643-2336
TX Universal Data Sys Richardson.....	214-680-0002
TX Universal Data Sys Houston.....	713-988-5506
WA Universal Data Sys Issaquah.....	206-392-9600
FR Universal Data Sys Willowdale ON.....	416-495-0008

UNIVERSAL ENTERPRISES INC 14270 NW SCIENCE PK DR PORTLAND OR 97229 TWX 15-1240.....	503-644-8723
J MCKENZIE	

**UNIVERSAL INSTRUMENTS CORP
BOX 825 BINGHAMTON NY 13902
TWX 510 252-1990.....607-775-1102
R BUDACZ EMP 2300 ENG 200 OVER \$10,000K
ADV PG 371**

CA Universal Inst Corp Laguna Hills.....	714-855-2782
CA Universal Inst Corp San Jose.....	408-298-1555
CO Universal Inst Corp Denver.....	303-457-0950
CT Universal Inst Corp Trumbull.....	203-378-5613
IL Universal Inst Corp Crystal Lake.....	815-455-6030
IN Universal Inst Corp Indpls.....	317-259-0740
NH Universal Inst Corp Bedford.....	603-625-9600
NY MEA Div Univ Inst Corp Binghamton.....	607-775-1102
NC Universal Inst Corp Raleigh.....	919-782-1436
PA Universal Inst Corp Paoli.....	215-296-8811
TX Universal Inst Corp Richardson.....	214-699-7012
FR Arbell Equip Ltd Burlington, ON.....	416-632-9494

UNIVERSAL MFG CO INC 1168 E B GROVE ST IRVINGTON NJ 07111 TWX 710-995-4647.....	201-374-9800
M MAYER EMP 80 ENG 5 \$2,500-\$5,000K	
CA Transformer Equip & Matts Van Nuys.....	213-366-7555
CT International Sales Assoc Wilton.....	203-762-7452
IL Lorrey Guarrero Entrps Schaumburg.....	312-351-0588
NY Fred Korwan Co Northport.....	516-261-1978
TX Equipment & Production Planning Co Dallas.....	214-661-2682

UNIVERSAL METAL SPINNING CO 9611 ACOMA RD SE ALBUQUERQUE NM 87123.....	505-298-6894
C SCHMIDT EMP 32 ENG 1 \$1,000-\$2,500K	

UNIVERSAL PHOTONICS INC 495 W JOHN ST HICKSVILLE NY 11801 TWX 14-3149.....	516-935-4000
W DETOUR EMP 50 ENG 3 OVER \$10,000K	
CA D Rippey Santa Clara.....	408-988-3920
MN L McCall St Paul.....	612-699-8458

TX A Sugalski Carrollton.....	214-783-8958
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**UNIVERSAL RELAY CORP 42 WHITE ST
NEW YORK NY 10013 TWX 501377.....212-925-6900
F SANTISARIO EMP 25 ENG 3 \$500-\$1,000K**

UNIVERSAL SEMICONDUCTOR INC 1925 ZANKER RD SAN JOSE CA 95112 TWX 408-295-1001.....	408-436-1906
R PECOTICH EMP 130 ENG 30 OVER \$10,000K	
AL Macro Mktg Huntsville.....	205-883-9630
AZ Tech Sales Phoenix.....	602-246-1614
CA Groh Assoc Irvine.....	714-837-9871
CA H-Tech Sales San Jose.....	408-279-2443
FL S-A Assoc Casselberry.....	305-753-6849
GA Macro Mktg Norcross.....	404-928-1145
IN France Entrps Greenfield.....	317-462-6098
MD DG Reps Lutherville.....	301-583-1360
MA Betronic Waltham.....	617-894-8400
MN Danl Engrg Corp Mpls.....	612-854-7550
NJ Northeast Components Glen Rock.....	201-447-0600
NY R & D Assoc Liverpool.....	315-457-0100
NC Components Concepts Winston-Salem.....	919-765-3484
OH Dynel Co Worthington.....	614-436-9452
OR Olson & Ferree Beaverton.....	503-643-9488
PA TCA Assoc Broomall.....	215-353-2022
TX Utl-Rep Dallas.....	214-644-6731
WA Olson & Ferree Bellevue.....	206-883-7792

DISTRIBUTORS	
AL Contact Electronics Huntsville.....	205-881-9321
CA Cypress Electronics San Jose.....	408-945-8400

UNIVERSAL SHIELDING CORP 20 W JEFFRYN BLVD DEER PARK NY 11729 TWX 221213.....	516-667-7900
J RANCE EMP 48 ENG 3 \$2,500-\$5,000K	
CA Peninsula Sales Co Palo Alto.....	415-494-9381
CA DJM Electronics Newhall.....	805-254-2677
CO Herb Bass Assoc Boulder.....	303-520-7509
MD Bernard White Co Baltimore.....	301-484-5400
NH EMC Sales Hudson.....	603-889-5751
NJ Brady Co North Plainfield.....	201-753-9888
OH J May Assoc Kettering.....	513-299-8422
TX McBride Scien Sales Garland.....	214-270-6774
WA G Millett & Assoc Seattle.....	206-284-3344
FR TSI Inc Ottawa ON.....	613-226-3227

UNIVERSAL VOLTRONICS CORP 27 RADIO CIRCLE DR MOUNT KISCO NY 10549 TWX 710-571-2142.....	914-241-1300
B HERNDON EMP 250 ENG 20	
CA Sourcectronics Inc Santa Clara.....	408-998-8801
MI Electroequipment Sales Southfield.....	313-961-1302
MN RJ Inc Mpls.....	612-866-3661
NH Fry Gates Co Albuq.....	505-262-1525
OH Electroequipment Sales Chesterland.....	216-729-2222
PA Holmes Assoc Inc Audubon.....	215-666-0636

UNR-ROHN 6718 W PLANK RD. BOX 2000 PEORIA IL 61656 TWX 910-652-0646.....	309-697-4400
R KLEINE	

CA Wm J Purdy Co Burlingame.....	415-347-7701
CA Wallace & Wallace Santa Fe Springs.....	213-945-2908
CO Wm J Purdy Co Denver.....	303-753-6800
FL Dixie Elect Assoc Lakeland.....	813-665-7195
GA Dixie Elect Assoc Dunwoody.....	404-458-2776
IL Robt Adams Sales Co Mt Prospect.....	312-297-8733
IN Robert Milk Co Indpls.....	317-842-3400
IA R M Assoc Ltd Des Moines.....	515-274-2517
KS R M Assoc Ltd Shawnee Mission.....	913-631-7606
MA W A Hendrickson Co N Scituate.....	617-545-0652
MI Robt Milk Co Southfield.....	313-354-3310
MN R W Sales St Paul.....	612-646-2710
MS Manufacturers Sales & Mktg Svcs Hattiesburg.....	601-264-4755
MO R M Assoc Ltd Des Peres.....	314-965-3611
NJ Steve Fisher Elec Assoc Teaneck.....	201-837-1200
NY Wm J Purdy Co Albuq.....	505-266-7959
NY Lewis-Dunnigan Co Syracuse.....	315-446-5522
NC Winston Elec Sales Oxford.....	919-693-1561
OH Thos Shelby & Co St Marys.....	419-394-3377
OR Wm J Purdy Co Beaverton.....	503-641-9373
TX Bob Townsend Sales Lewisville.....	214-434-2479
WA Piper Marketing Moorestown.....	609-235-8006
WA Wm J Purdy Co Redmond.....	206-882-3144

UPA TECHNOLOGY INC 60 OAK DR SYOSSET NY 11791 TWX 14-3115.....	516-364-1080
J RITTER EMP 180 ENG 6 \$5,000-\$10,000K	
CA B Hanford Cupertino.....	408-983-2621
CO S McDonald Longmont.....	303-441-9617
FL G Schiff Tampa.....	813-832-2470
IL C Farber Lynwood.....	312-895-4466
MA J Weldon Peabody.....	617-598-9553
MO G Pickett Kansas City.....	816-765-8161
NJ B Birdwell Haddonfield.....	609-428-4135
TX F Runcio Dallas.....	214-867-1615

UP-RIGHT WORK PLATFORMS DIV 1013 PARDEE ST BERKELEY CA 94710 TWX 910-366-7347.....	415-843-0770
D FRANZ EMP 115 ENG 15 OVER \$10,000K	
AL Up-Right Birmingham.....	205-933-8885
AZ Up-Right Phoenix.....	602-265-3896
CA Up-Right Santa Fe Springs.....	714-634-4489
CA Up-Right San Diego.....	719-295-8042
CO Up-Right Denver.....	303-595-5661
CT Up-Right North Haven.....	203-239-7043
DC Up-Right Washington DC.....	202-393-7165
FL Up-Right Tampa.....	813-873-7610
GA Up-Right Atlanta.....	404-355-2910
IL Up-Right Itasca.....	312-773-3110
LA Up-Right New Orleans.....	504-523-7965
MA Up-Right Somerville.....	617-666-2880

MI Up-Right Detroit.....	313-962-6100
MN Up-Right Bloomington.....	612-881-1990
MO Up-Right St Louis.....	314-421-0818
NJ Up-Right Ridgefield Pk.....	201-440-6002
NY Up-Right Syracuse.....	515-437-7845
NC Up-Right Charlotte.....	704-333-4638
OH Up-Right Cleveland.....	216-241-7109
OK Up-Right Okla City.....	405-636-9904
PA Up-Right Pittsburgh.....	412-261-4696
SC Up-Right Columbia.....	803-256-7641
TN Up-Right Memphis.....	901-525-3136
TX Up-Right Dallas.....	214-634-2156
WA Up-Right Redmond.....	206-881-1313
WI Up-Right Milwaukee.....	414-933-1404
FR Up-Right Montreal PQ.....	514-861-3937
FR Up-Right Whitby ON.....	416-668-7701

DISTRIBUTORS	
CT Yankee Equip Corp Bloomfield.....	203-522-1690
MO Wiese Planning & Eng Co St Louis.....	314-427-8600
NY Syracuse Supply Co Syracuse.....	315-463-9511
NY Sylvan Equip Brooklyn.....	212-387-4872

**UPSON TOOLS INC 99 LING RD
ROCHESTER NY 14612
TWX 710-581-5380.....716-663-5373
H VEEPEC EMP 33 ENG 1 \$500-\$1,000K**

AZ E & O Sales Phoenix.....	602-234-3145
CA Donald E Savard Co San Gabriel.....	213-283-0504
CO Donnelly Assoc Denver.....	303-360-7915
CT D K Tilton Assoc Simsbury.....	203-658-6322
FL M Alden Porter & Assoc Miami.....	305-865-5247
HI Nexus Trade Group Honolulu.....	808-531-1433
IL Anderson Sales Co Batavia.....	312-879-6354
IA C Miller Dallas Center.....	515-992-3224
KS C H Koslosky Co Mission.....	913-362-5244
MI Heimstead Assoc Birmingham.....	313-646-6099
MO N Rosenthal St Louis.....	314-721-5878
NJ Kagan & Co Caldwell.....	201-226-4468
NY M Maltz & Co Brooklyn.....	718-252-1139
NY Phoenix Entrp Rochester.....	716-244-7505
NC Phelps-Simpson Inc Pineville.....	704-542-1669
OH Chi-Plts Corp Hudson.....	216-656-3326
OR Donald Wilson & Assoc Portland.....	503-645-2061
PA Edw P Rush Assoc Warrington.....	215-343-2927
TX Kennedy-David Co Dallas.....	214-239-7563
WA A G Dalia Pozza & Assoc Carnation.....	206-788-2937

DISTRIBUTORS	
CA Graybar Electric Co Santa Barbara.....	805-964-7771
FL Rich Electronics Miami.....	305-635-1351
NY Electronics Warehouse Brooklyn.....	718-253-2700
NY Kovalsky-Carr Elec Sply Rochester.....	716-325-1950
NY Sag Harbor Industries Sag Harbor.....	516-725-0440
NY S L Jack Electronics Astoria.....	718-545-8888
NY Timberline Elec Sply Geneva.....	315-789-7555

UPSYSTEMS INC 7801 E COMPTON BLVD PARAMOUNT CA 90723 TWX 910-346-7814.....	213-634-0621
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URBAN CHEMICAL CO 725 COUNTY LINE RD DEERFIELD IL 60015 EMP 13 ENG 4.....	312-498-3080
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IL Kennedy Engrg 3405A N Kennicott Arlington Hts.....	
IN Kalhust & Assoc 5480 Heritage Lafayette	
PA Gil-Tec 388-A Reed Rd Broomall	
SC Gil-Tec Box 3 Charleston	

UNIVERSAL ELECTRONICS BOX 456 DOVER MA 02030 TWX 710-325-1579.....	617-329-4068
G URBAN EMP 6 ENG 2 UP TO \$100K	
CT George Urban Assoc Vernon.....	203-647-3991

URIX CORP 124 GAITHER DR MOUNT LAUREL NJ 08054 TWX 831373.....	609-866-1000
R DUBAY	

**US COMPONENTS INC 35 CARLOUGH RD
BOHEMIA NY 11716
TWX 510-228-7886.....516-589-8080
J PRIDEAUX EMP 90 ENG 5 \$2,500-\$5,000K
ADV PG 128**

AZ Steve Fisher Assoc Phoenix.....	602-247-7855
CA Universal Components LA.....	213-641-4265
CA Wedemeyer Entrps Sunnyvale.....	408-378-3883
CT Tom Maguire Assoc Rocky Hill.....	203-563-1845
FL Custom Assembly Seminole.....	813-397-8302
GA Lowe Assoc Norcross.....	404-662-0507
IL Phoenix Co of Chicago Schaumburg.....	312-980-7060
MD Delta III Assoc Columbia.....	301-730-4700
MA Tom Maguire Assoc Wellesley.....	617-431-1120
MI Forand Sales Co Birmingham.....	201-894-0087
MN Electromec Sales Inc Burnsville.....	612-897-8220
NJ Livera-Polk Assoc Madison.....	201-377-3220
NY Rudell Merrifield Assoc Buffalo.....	716-634-4300
NY Livera-Polk Assoc Glenhead.....	516-759-9300
OH J N Bailey & Assoc New Lebanon.....	513-687-1325
PA PWC Springhouse.....	215-643-2550
TX El-Tec Sales Ft Worth.....	817-268-2896
VA Delta III Assoc Richmond.....	804-272-2497
FR Connectric Systems Inc Mississauga ON.....	416-828-6004

DISTRIBUTORS	
CA Electro-Sonic Comps Hawthorne.....	213-970-0997
CA LoDan Belmont.....	415-592-4600
CA Merit Component Sply Burbank.....	818-842-8162
GA Electronic Cable & Connector Corp Norcross.....	404-662-0506
IL Phoenix Co Schaumburg.....	312-980-7060
MD Hamilton Avnet Columbia.....	301-995-3500
MD Zebra Electronics Timonium.....	301-252-6576
NY March Elect West Hempstead.....	516-485-4700
OH Wright Source Kettering.....	513-687-3439

PA Component Entrps Co Norristown.....215-272-7900

USECO DIV LITTON SYSTEMS INC
13536 SATICOY ST VAN NUYS
CA 91409 TWX 910 495-1700.....818-786-9381
P SLATTERY EMP 200 ENG 5

DISTRIBUTORS
IL Waldom Electronics Chicago.....312-585-1212

USROBOTICS INC 8100 MCCORMICK
BLVD SKOKIE IL 60076-2920.....312-982-5001

UTAH INTERNATIONAL 550
CALIFORNIA ST SAN FRANCISCO
CA 94104 TWX 34-0381.....415-981-1515
EMP 7000 ENG 500 OVER \$10,000K

UTE MICROWAVE INC 3500
SUNSET AVE ASBURY PARK
NJ 07712 TWX 132-461.....201-922-1009
L NILSON EMP 30 ENG 3 \$1,000-\$2,500K

CA Thorson Co Goleta.....805-964-8751
CA Thorson Co Signal Hill.....213-595-0361
FL EMS Inc Melbourne.....305-724-1027
MA Nerem Wakefield.....617-245-4426
NY R S C Sales Co Commack.....516-543-5532
OH Fred Ohmer Assoc Dayton.....513-434-1454
TX Airep Elctns Dallas.....214-349-4360
VA QT Elctn Sales Annadale.....703-941-4242
FR Microwave Intl Corp Boca Raton.....305-391-7475

UTI INSTRUMENTS CO 497
S HILLVIEW DR MILPITAS
CA 95035-4008 TWX 910-339-9546.....408-945-1955
J GOLUB EMP 80 ENG 7 OVER \$10,000K
NJ UTI Instruments Nutley.....201-667-8232

DISTRIBUTORS
AZ Metro-Line Western Tempe.....602-438-1550
CA Metro-Line Western Brea.....714-966-7290
CA US Inc Campbell.....408-371-6900
CO Palmborg Assoc Boulder.....303-442-4838
DE Schlegel Assoc Newark.....302-453-1600
GA Sealey Ind & Rsch Equip Atlanta.....404-491-3777
IL Byron Ellis Assoc Des Plaines.....312-298-7626
NJ Cook & Weil Marlboro.....201-536-3964
OH Byron Ellis Assoc Brea.....216-826-0559
TX Yarbrough Southwest Richardson.....214-690-0800
WA Palmborg Assoc Mercer Island.....206-232-3444
FR Gigatron Ottawa ON.....613-225-4090

UVOCIS INC BOX 543
MONTGOMERYVILLE PA 18936.....215-822-0321
CA Dentech Sales & Svc Santa Clara.....408-988-1799
CO Alphatek Inc Westminster.....303-428-5348
FL Marketiers Corp Clearwater.....813-443-4302
NH Doyle Sales Hudson.....603-883-5999
NY Micrel Inc Chappaqua.....914-238-4961
TX Technical Processes Co Dallas.....214-248-0486
WA MARS Bellevue.....206-747-3292

UVP INC 5100 WALNUT GROVE
AV BOX 1501 SAN GABRIEL
CA 91778 TWX 688-461.....818-285-3123
P CASHEN EMP 105 ENG 17

VACO PRODUCTS CO 1510 SKOKIE
BLVD NORTHBROOK IL 60062
TWX 910-686-0658.....312-564-3300
F GREDE EMP 250 ENG 7
CA Canow Mktg Walnut.....714-594-8929
CA Bidwell Sales Assoc Gardena.....213-532-7303
CO S O S Marketing Aurora.....303-366-7667
IL Bill Stein & Co Northbrook.....312-272-2704
IN Wilhelm Assoc Indpls.....317-257-2753
KS Modern Mktg Overland Pk.....913-341-6926
MA Paul O'Sullivan Sales Co Foxboro.....617-543-5585
MI G R S Sales Milford.....313-887-2696
MN Elmes Marketing Mpls.....612-925-5113
NY J Brown Elect Sales Reps
Whitestone.....718-767-1977

NY L Goodman Syracuse.....315-451-2333
NC Adams & Assoc Greensboro.....919-272-6838
PA Fischer-Reichard Co Honeybrook.....215-273-2226
UT Johnson Co Ogden.....801-393-1202
FR Atlas Elctn Ltd Toronto ON.....416-781-7761

VAC-TEC SYSTEMS INC 2590
CENTAL AVE BOULDER CO 80301
TWX 910-940-3440.....303-449-5180
R DELAY EMP 46 ENG 9 \$2,500-\$5,000K

VACUUM ATMOSPHERES CO INC
4652 W ROSECRANS AVE
HAWTHORNE CA 90250
TWX 910-325-6202.....213-644-0251
J HAMILTON EMP 44 ENG 5 \$2,500-\$5,000K
CO Edw W Johnson Denver.....303-985-4810
IL Ken W Meyers Co Schaumburg.....312-882-4808
MA Paul Becker Assoc Natick.....617-655-2520
NY Electrolab Equip Co Commack.....516-543-0378
NY K & W Ind Sales Buffalo.....718-475-9854
TX Haryng Assoc Houston.....713-464-7641

VACUUM INDUSTRIES INC 5
MIDDLESEX AVE SOMERVILLE
MA 02145 TWX 681 7186.....617-666-5450
H DARISH EMP 110 ENG 20
CA C T Prods Palos Verdes Pen.....213-377-9983
CO Semitarr Assoc Colorado Spgs.....303-593-7881
GA J B Systems LaGrange.....404-884-3006
IL Byron Ellis Assoc Park Ridge.....312-298-7626
MD Tyler Griffin Co Silver Spring.....301-588-5896
MA Indus Equip & Sales Boston.....617-426-4406
MI Kemper Assoc Mt Clemens.....313-468-9797
NY Ferrotherm Inc Rochester.....716-427-4780
OH Pier Inc Dayton.....513-228-5815

TX Metallurgical Systems Inc
Houston.....713-467-9122

VACUUM PRODUCTS INC 25 DOCK ST
MT VERNON NY 10550.....914-664-7330
G FRANK EMP 5 ENG 1 UP TO \$100K

VALHALLA SCIENTIFIC INC
9955 MESA RIM RD SAN DIEGO
CA 92121.....619-457-5576
K CLARK EMP 45 ENG 7 \$5,000-\$10,000K

AL Currie Peak & Frazier Huntsville.....205-536-5650
AZ Trembly Assoc Tempe.....602-967-2058
CA Scientific Devices San Jose.....408-554-0455
CA Cutlass Torrance.....213-324-7360
CO Trembly Assoc Lakewood.....303-233-9544
FL Currie Peak & Frazier Orlando.....305-855-0843
GA Currie Peak & Frazier Norcross.....404-449-7662
IL Dytec/Central Arlington Hts.....394-3380
IN Dytec/Central Indpls.....317-247-1316
MD Se-Tronics Silver Spring.....301-589-3391
MI Addeco Corp Needham.....617-444-4754
MI Carter McCormick & Pierce
Farmington.....313-477-7700
MN Dytec/North St Paul.....612-645-5816
MO Delltron St Louis.....314-869-4779
NJ Design Paramus.....201-845-6224
NM Trembly Assoc Albuquerque.....505-266-8616
NY Labtronics Syracuse.....315-455-7314
NC Currie Peak & Frazier Greensboro.....919-273-3040
OH Carter McCormick & Pierce
Englewood.....513-836-0951

OR Weston Inc Portland.....503-283-0132
PA R A Meyers Assoc Melrose Pk.....215-224-1663
SC Currie Peak & Frazier Columbia.....803-254-1971
TX Testech Houston.....713-956-0837
UT Trembly Assoc SLC.....801-486-5292

VALIDYNE ENGINEERING CORP
8626 WILBUR AVE NORTHBRIDGE
CA 91324 TWX 65-1303.....818-886-2057
G GOODRICH

AZ TC Electronics Scottsdale.....602-994-5153
CO Winn-Marion Denver.....303-778-6767
FL J & J Instr Seminole.....813-397-8068
GA Zelco Assoc Acworth.....404-974-8647
IL Carrier Oehler Co So Holland.....312-339-8200
IN Domino Unitd Inc Ft Wayne.....219-747-5621
KY Domino Unitd Owensboro.....502-771-4996
MD Advanced Controls Towson.....301-366-4764
MA HiTech Controls Belmont.....617-489-0851
MI Marsh Equip Co Highland Pk.....313-869-9200
MO Cadon Tech Sales Raytown.....816-356-7685
NJ Advance Controls East Brunswick.....201-246-4774
NM RLS Instruments Albuquerque.....505-293-7931
NY Angus Instruments Buffalo.....716-484-1030
NC Zelco Assoc Charlotte.....704-523-2961
OH Franklin W Kirk Co Lakewood.....216-226-1970
OK Control Sys Consultants Tulsa.....918-622-8867
OR Controltek Sales Ltd Portland.....503-641-0877
PA Advanced Controls Warminster.....215-674-4777
TX Acudata Inc Houston.....713-580-2451
UT Winn-Marion SLC.....801-355-6151
WA Controltek Sales Ltd Seattle.....206-467-0622

VALLEY DESIGN CORP 550
NEWTOWN RD LITTLETON MA 01460
TWX 95-1715.....617-486-8933
W SCOTT EMP 30 ENG 5 \$1,000-\$2,500K

VALOR ELECTRONICS INC 6750
NANCY RIDGE DR SAN DIEGO
CA 92121 TWX 910-595-2480.....619-458-1471
E JENSEN EMP 53 ENG 5 OVER \$10,000K

VALOR INSTRUMENTS INC 1122
LLEWELLYN AVE TORRANCE
CA 90501.....213-320-5471
G ALBRECHT EMP 25 ENG 4

VALPEY-FISHER CORP 75 SOUTH ST
HOPKINTON MA 01748 TWX 948332.....617-435-6831
D LELLIOTT EMP 120 ENG 5 \$5,000-\$10,000K

AL Montgomery Mktg Huntsville.....205-830-0498
AZ Verein Corp Phoenix.....602-948-3571
CA C-Tronics San Diego.....619-291-5700
CA ETA Sales Orange.....714-998-9241
CA Custom Technology Sales San Jose.....408-252-9901
CO Waugaman Assoc Wheat Ridge.....303-423-1020
FL Temco Sales Tampa.....813-855-7566
GA Montgomery Mktg Norcross.....404-447-6124
IL Coombs Assoc Arlington Hts.....312-439-9810
IN Dillon Sales Co Ft Wayne.....219-486-1868
KS Jones Marketing Overland Park.....913-649-3020
MA Cycle Sales Marlboro.....617-485-5057
MA Vanguard Electronics Needham.....617-449-5578
MI Tech Rep Inc Ypsilanti.....313-572-1950
MN Sitzer Co New Brighton.....612-484-8700
NJ Danco Elctns Cherry Hill.....609-424-5590
NM Reptronix Ltd Albq.....505-292-1718
NY J Square Mktg Hicksville.....516-935-3200
NY Eiss Assoc Rochester.....716-328-3000
NC Montgomery Mktg Cary.....919-467-6319
OH Norm Case Assoc Rocky River.....216-333-0400
TX Sundance Sales Plano.....214-867-0592
UT Waugaman Assoc SLC.....801-261-0802
VA Tytronics Reston.....703-471-0440
WA OEM Sales Blaine.....206-621-7249
WI Industrial Reps Milwaukee.....414-259-0965

DISTRIBUTORS
CA Added Value Elect Tustin.....714-730-5848
CA Cypress Elect Sunnyvale.....408-727-7080
IN Advent Elec Indpls.....317-297-4910
MD M S Electronics Gaithersburg.....301-921-0200
MI Impact Sales Canton.....617-821-1500
NM Alliance Elect Albq.....516-273-5010
NY Belmont Elect Hauppauge.....516-582-6258
NY Prime Components Hauppauge.....516-293-6680
NY ACI Electronics Plainville.....516-293-6680

NY Nu Horizons Farmingdale.....516-694-2500
NY RBD Electronics Bohemia.....516-589-7717
OH Argent Industries Englewood.....513-836-8633
PA Century Electronics Norristown.....215-631-5400
TX Heiland Electronics Dallas.....214-351-0260
WA Radar Elec Seattle.....206-282-2511
FR L A Varah Vancouver BC.....604-873-3211

VALTRONIC INC 2200 S MAIN
LOMBARD IL 60148 TWX 756-564.....312-953-0077
A BERTAUX EMP 150 ENG 12 OVER \$10,000K

CA Micromech Inc Sunnyvale.....408-745-7445
FL Brennan & Assoc Clearwater.....813-446-5006
IL Gassner & Clark Schaumburg.....312-882-8608
IN Scott Electronics Indpls.....317-897-9976
MA Marketing Services Quincy.....617-770-1686
MI Shively Bros Flint.....313-232-7401
MO HiTech Central Independence.....816-796-6684
OH Scott Elctns Cleveland.....216-473-5050
PA Scott Electronics Pittsburgh.....412-963-6116

VAMISTOR CORP 115 INDUSTRIAL
PARK SEVIERVILLE TN 37862
TWX 810-570-4931.....615-453-0001
D LINDSEY EMP 49 ENG 3 \$1,000-\$2,500K
MD Zebra Elect Timonium.....301-252-6576

DISTRIBUTORS
CA Petell Elect San Fernando.....818-365-9844
CT Sound Elct Fairfield.....203-255-7957
MD Zebra Elect Timonium.....301-252-6576
MA Cronin Elect Needham.....617-449-5000
NY Fairmont Elctn Sales Hauppauge.....516-231-3313
NY Jaco Elctns Hauppauge.....516-273-5500
NY L & S Elect Valley Stream.....516-561-2474
NY Justin Elect Bohemia.....516-589-4000
NY Sherburn Elect Hauppauge.....516-231-4300

VAN AIR SYSTEMS INC 350
MECHANIC ST LAKE CITY
PA 16423 TWX 91-4548.....814-774-2631
R ROBERTS EMP 70 ENG 4

VANGUARD ELECTRONICS 1480
W 178 ST GARDENA CA 90248
TWX 910-346-7067.....213-323-4100
J HOENIG EMP 375 ENG 10 OVER \$10,000K

VANGUARD RELAY CORP 333
STRAWBERRY FLD RD BOX 6790
WARWICK RI 02887.....401-732-0700
F PESTANA

MI Hileman Assoc Albion.....616-781-9921
NJ Peterson-Rudnick Assoc Roseland.....201-CA6-4363
NY D Rudnick Bronx.....212-671-1923

VAN NORMAN MOLDING CO 9599
S 76TH AVE BRIDGEVIEW
IL 60455.....312-430-4343
B ANDRE EMP 65 ENG 4 \$2,500-\$5,000K

VAPOR BLAST MFG CO 3025
W ATKINSON AVE MILWAUKEE
WI 53209.....414-871-6500
R MORAN EMP 55 ENG 6 \$2,500-\$5,000K

VAPOR CORP 6420 W HOWARD ST
CHICAGO IL 60648.....312-631-9200
EMP 785 ENG 115 OVER \$10,000K

VARFLEX CORP 512 W COURT ST
ROME NY 13440.....315-336-4400
J WRIGHT EMP 125 ENG 2 \$2,500-\$5,000K
ME F Hart York.....207-363-3679
MO Edw P Gund Co University City.....314-862-1650
NY Wm T Elliott Liverpool.....315-652-3690
PA Martin Assoc Ardmore.....215-649-6332

DISTRIBUTORS
AZ Electrical Specialty Phoenix.....602-275-5736
AR Hisco Little Rock.....501-568-3105
CA Electrical Specialty LA.....213-724-9600
CA Electrical Specialty So San Fran.....415-589-9611
CO Electrical Specialty Denver.....303-321-0226
GA Prehler Inc Atlanta.....800-241-0940
IL Prehler Inc Chicago.....800-621-4177
KY Electrical Insul Suppliers
Louisville.....502-636-0384
OH Prehler Inc Middleburg Hts.....800-241-0940
OR Electrical Specialty Portland.....503-227-3601
TX Hisco Houston.....713-683-7884
UT Electrical Specialty SLC.....801-972-4184
WA Electrical Specialty Tukwila.....206-241-1010
FR Electric Insul & Fibre
Mississauga ON.....416-624-0700
FR Electric Insul Matis Edmonton AB.....463-423-4301

VARIAN ASSOCIATES 611 HANSEN WAY
PALO ALTO CA 94303
TWX 910-373-1731.....415-493-4000
EMP 12600 ENG 3000 OVER \$10,000K

VARIAN ELECTRON DEVICE GROUP
611 HANSEN WAY PALO ALTO
CA 94303 TWX 910-373-1731.....415-493-4000
D RUGGIERI EMP 15000 ENG 900 OVER \$10,000K
AL Varian Huntsville.....205-837-9225
AZ Varian Tempe.....602-966-4440
CA Varian Palo Alto.....415-424-6400
CA Varian Covina.....818-967-3834
CA Varian Ventura.....805-658-7698
FL Varian Clearwater.....813-446-8513
GA Varian Warner Robins.....912-922-2202
IL Varian Park Ridge.....312-825-6686
IN Varian Bloomington.....812-334-9900
MD Varian Linthicum.....301-850-5010
MA Varian Burlington.....617-272-8532
NY Varian Cranford NJ.....201-276-9050
NY Varian Syracuse.....315-455-2810
OH Varian Dayton.....513-258-3930

PA	Varian Moorestown NJ	609-235-6800
TX	Varian Dallas	214-235-2385
VA	Varian Arlington	703-522-8002
FR	Varian Georgetown ON	416-877-0161
FR	Varian Ottawa ON	613-725-9285

VARIAN INSTRUMENT GROUP		
	220 HUMBOLDT CT SUNNYVALE	
CA	94089 TWX 910-373-1731	408-734-5370
TX	Varian Sugar Land	800-231-8134

VARIAN SEMICONDUCTOR EQUIP GROUP		
	611 HANSEN WAY PALO ALTO	
CA	94303	415-493-4000
AZ	Varian Tempe	602-966-7899
CA	Varian Costa	714-966-1355
CA	Varian Mt View	415-966-1110
CO	Varian Colo Springs	303-636-3187
FL	Varian Palm Bay	305-729-6696
IN	Varian Indianapolis	317-293-2502
MA	Varian Woburn	617-935-8755
NY	Varian Hopewell Junction	914-221-2474
PA	Varian Bethlehem	215-264-2141
TX	Varian Dallas	214-235-4586

VARIAN SPECIALTY METALS DIV		
	611 HANSEN WAY PALO ALTO	
CA	94303	415-493-4000
AZ	Varian Tempe	602-966-5400
CA	Varian Costa Mesa	714-966-0226
CA	Varian Mt View	415-966-1110
IN	Varian Indianapolis	317-293-2502
MA	Varian Burlington	617-272-5272
NY	Varian Hopewell Jct	914-221-2474
OH	Varian Grove City	614-875-7912

VARIAN/VACUUM PRODUCTS DIV		
	121 HARTWELL AVE LEXINGTON	
MA	02173 TWX 710-321-0019	617-861-7200
	EMP 700	
AZ	Varian Tempe	602-966-5400
CA	Varian Santa Fe Springs	714-739-5891
CA	Varian Mt View	415-964-2790
FL	Varian Clearwater	615-690-3252
IL	Varian Northbrook	312-480-0300
MA	Varian Woburn	617-935-5185
MN	Varian Bloomington	612-636-8036
NJ	Varian Cranford	201-499-7444
NM	Varian Albuquerque	505-344-8807
NY	Varian Syracuse	315-437-3307
OH	Varian Euclid	216-289-6365
TN	Varian Knoxville	615-690-3252
TX	Varian Dallas	214-235-4586
VA	Varian Arlington	703-525-3883

VARIL CO INC 11101 E 51 AVE		
	DENVER CO 80239	
TX	910-932-0311	303-371-1560
C KISER EMP 96 ENG 8 \$2,500-\$5,000K		

VARO INC POWER SYSTEMS DIV		
	2800 W KINGSLEY GARLAND	
TX	75040 TWX 910-860-5092	214-840-5000
F KINCH EMP 280 ENG 40 OVER \$10,000K		
CA	D Hartwich Camarillo	805-983-0790
VA	M Walker Arlington	703-920-4500

VARO SEMICONDUCTOR INC		
	BOX 469013 1000 N SHILOH	
	GARLAND TX 75046	
TX	910-860-5178	214-487-4300
C MERZ EMP 800 ENG 35 OVER \$10,000K		

AL	Rep Inc Huntsville	205-881-9270
AZ	SMS & Assoc Scottsdale	602-998-0831
CA	W W Posey Co Sunnyvale	408-746-0771
CA	Corcoran Assoc L A	213-823-4589
CO	Technology Mktg Assoc Parker	303-841-3435
CT	Comp Rep Assoc Wallingford	203-269-1145
FL	OEM Mktg Corp Orlando	305-299-1000
GA	Rep Inc Tucker	404-938-4358
IL	D Dolin Sales Northbrook	312-498-6770
IN	C-S Electronic Sales Frankfort	317-659-1874
IA	Ard Sales Co Cedar Rapids	319-393-6392
KS	Electri-Rep Overland Pk	913-649-2168
MD	DG Reps Lutherville	301-583-1360
MA	Comp Rep Assoc Westwood	617-329-3454
MI	Amtech Reps Farmington	313-474-8300
MN	Electric Comp Sales Mpls	612-933-2594
MO	Electri-Rep Maryland Hts	314-878-8209
NY	Bob Dean Inc Ithaca	607-257-1111
NY	Cooper-Simon & Co Franklin Square	516-489-0404
NC	Rep Inc Raleigh	919-851-3007
OH	J C Hofstetter Co Medina	216-241-4880
OK	Ammon & Rizos Tulsa	918-663-8788
OR	Western Tech Sales Hillsboro	503-640-4621
PA	Knowles Assoc Feasterville	215-322-7100
TN	Rep Inc Jefferson City	615-475-4105
TX	Ammon & Rizos Co Richardson	214-644-5591
UT	Technology Mktg Assoc SLC	801-483-1009
WA	Western Technical Sales Bellevue	206-641-3900
WI	D Dolin Sales Co Milwaukee	414-482-1111
FR	Contronics Inc Scarborough ON	416-297-8668
FR	Solution Elect Sales Vancouver BC	604-438-0679

DISTRIBUTORS		
AL	Resistacap Huntsville	205-883-4270
AZ	Bell Ind Tempe	602-966-7800
AZ	Anthem Elect Tempe	602-966-6600
CA	Bell Indus Sunnyvale	408-734-8570
CA	Allied Elect Hayward	415-487-5250
CA	Anthem Elect Chatsworth	818-700-1000
CA	Bell Indus Gardena	213-515-1800
CO	Integrated Elect Denver	303-292-6121
CO	Bell Ind Wheat Ridge	303-424-1985
CT	Milgray/CT Orange	203-795-0711
FL	Milgray/FL Winter Pk	305-647-5747
GA	Milgray Atlanta	404-393-9666
IL	Klaus Radio Peoria	309-691-4840
IL	Ohm Elect Palatine	312-359-5500
IL	Allied Elect Elgin	312-697-8200
IL	Pioneer/Chi Elk Grove Vlg	312-437-9680
IL	Milgray Bensenville	312-350-0490
IN	Graham Elect Indpls	317-634-8202
IN	Pioneer/IN Indpls	317-849-7300
IA	Deeco Inc Cedar Rapids	319-365-7551
IA	Klaus Radio Eldridge	319-285-8484
KS	Milgray/KS Overland Pk	913-236-8800
MD	Milgray/Wash Rockville	301-468-6400
MA	Milgray Elect Burlington	617-272-6800
MI	Pioneer/MI Livonia	313-525-1800
MN	Pioneer/Twin Cit Minnetonka	612-935-5444
NJ	Milgray/Del Vly Marlon	609-983-5010
NM	Bell Ind Albuq	505-292-2700
NY	Milgray Elect Farmingdale	516-202-9800
NY	Summit Dist Buffalo	716-887-2800
NY	Milgray Elect Pittsford	716-385-9300
NY	Summit Dist Rochester	716-334-8110
NC	Hammond Elec Greensboro	919-275-6391
OH	Stotts-Friedman Co Dayton	513-298-5555
OH	Pioneer Standard Dayton	513-236-9900
OH	Milgray Cleveland	216-447-1520
OH	Graham Elect Cincinnati	513-772-1661
OH	Altair Co Tulsa	918-252-5781
OR	Bell Ind Lake Oswego	503-241-4115
PA	Pioneer/Pitts Pittsburgh	412-782-2300
SC	Hammond Elect Greenville	803-233-4121
TN	Bluff City Elect Memphis	901-345-9500
TX	Altair Co Houston	713-462-3029
TX	Milgray Dallas	214-248-1603
TX	Allied Elect Ft Worth	817-336-5401
TX	Pioneer Dallas	214-386-7300
TX	Pioneer Houston	713-988-5555
TX	Sherman Elect San Antonio	512-224-1004
UT	Standard Supply SLC	801-486-3371
UT	Bell Ind SLC	801-972-6969
WA	Bell Ind Bellevue	206-747-1515
WA	Priebe Elect Kirkland	206-821-4695
WI	Marsh Elect Milwaukee	414-475-6000
WI	Bell Ind Waukesha	414-547-8879
FR	Electronic Inc Willowdale ON	416-494-1866
FR	Rae Ind Elect Burnaby BC	604-291-8866

VARTA BATTERIES INC 300		
EXECUTIVE BLVD ELMFORD		
NY	10523 TWX 996548	914-592-2500
EMP 14000 ENG 3000 OVER \$10,000K		

DISTRIBUTORS		
CA	Energy Devices La Mirada	213-921-8775
CA	Tauber San Diego	619-274-7242
CA	Nesco Van Nuys	818-787-0505
GA	Falcon Batteries Marietta	404-953-3500
IL	TDI Downers Grove	312-971-3460
IL	Power Pak Chicago	312-966-6000
MA	Adcour Sharon	617-784-8123
NJ	E A I Clifton	201-772-6400
NY	Bren-Tronics Commack	516-499-5155
TX	S W Electronics Stafford	713-491-4900

VECTOR ASSOCIATES INC 3831		
HORSE BLOCK RD YAPHANK		
NY	11980 TWX 510-228-2650	516-924-0100
S BIENSTOCK EMP 50 ENG 3 \$1,000-\$2,500K		

VECTOR ELECTRONIC CO INC		
BOX 4336 SYLMAR CA 91342		
TX	910 496-1539	818-365-9661
F HILL EMP 140 ENG 7 \$5,000-\$10,000K		

DISTRIBUTORS		
AL	Mock Elect Huntsville	205-539-2401
AL	Powell Elect Huntsville	205-539-2731
AZ	Dalis Elect Phoenix	602-275-2626
AZ	Inland Elect Tucson	602-294-2628
CA	Newark Elect Inglewood	213-671-7066
CA	RPS Inc Buena Park	714-521-5230
CA	Abacus Elect Mtn View	415-961-1500
CA	Brill Elect Oakland	415-834-5888
CA	Zack Elect Palo Alto	415-326-5432
CA	Electronic Sply Riverside	714-787-9220
CA	RPS Elect San Diego	714-693-8222
CA	Priority I Chatsworth	818-709-5111
CA	Shanks & Wright San Diego	714-239-0176
CA	Sandy's Elec Sply Canoga Pk	818-346-8353
CA	Allied Elect Hayward	415-487-5250
CA	Empire Elect Dist Pasadena	213-681-2711
CA	Quement Elect San Jose	408-998-5900
CA	Powell Elect San Jose	408-943-9020
CO	Newark-Denver Denver	303-757-3351
CT	Allied Elect Hamden	203-248-8900

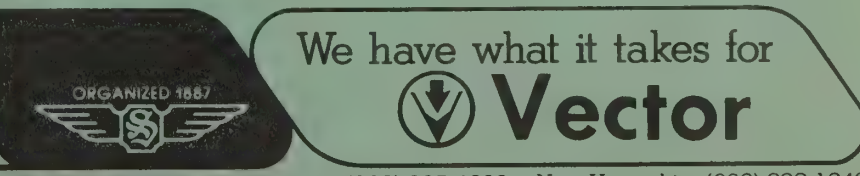
CT	Park Dist Norwalk	800-243-5006
CT	Sager Elec Sply Wallingford	203-265-4600
FL	Powell Elect Ft Lauderdale	305-972-4300
FL	Electronic Equipment Miami	305-871-3500
GA	Jack Spears Elect Atlanta	404-237-4531
HI	Honolulu Elect Honolulu	808-533-3884
IL	Newark Elect Chicago	312-638-4411
IL	Allied Elect Elgin	312-697-8200
IL	OHM/Elect Palatine	312-359-5500
IL	Klaus Radio Peoria	309-691-4840
IL	Joseph Elect Niles	312-297-4200
IN	Graham Elect Ft Wayne	219-423-3422
IN	Meunier Radio Sply Indpls	317-635-3511
KY	Peerless Elec Equip Louisville	502-637-7674
MD	Capitol Radio Wshrs Rockville	301-881-2270
MD	ASI Elect Baltimore	301-265-5100
MA	Gerber Elect Norwood	617-329-2400
MA	Sager Elec Sply Hingham	617-749-6700
MA	Land Elec Supply Lynn	617-592-2220
MI	Wedemeyer Elect Sply Ann Arbor	313-665-8611
MI	RS Elect Livonia	313-525-1155
MI	Newark Elect Oak Park	313-967-0600
MN	Gopher Elect St Paul	612-483-3322
MN	Newark Elect Mpls	612-331-6350
MO	Oliver Ind Elect St Louis	314-426-4500
NE	Scott Electronic Sply Lincoln	402-466-8221
NJ	General Radio Sply Camden	609-964-8560
NJ	State Elect Parts East Hanover	201-887-2550
NM	Electronic Parts Albuq	505-293-6161
NY	Summit Dist Buffalo	716-884-3450
NY	Simcona Elect Rochester	716-328-3230
NY	Davis Elec Hempstead	516-483-9200
NY	Peerless Radio Long Island	516-593-2121
NY	Broadline Elec Dist Hauppauge	516-231-4100
NY	Rochester Radio Sply Rochester	716-454-7800
NC	Southeastern Electronics Raleigh	919-828-2311
OH	Akron Elect Sply Akron	216-762-8818
OH	Pioneer Cleveland	216-587-3600
OH	Hughes Peters Co Columbus	614-294-5351
OH	Stotts Friedman Dayton	513-298-5555
OH	Pioneer/Dayton Dayton	513-236-9900
OK	Radio Inc Tulsa	918-587-9123
OR	Almac Stroum Beaverton	503-629-8090
PA	Kass Elect Dist Drexel Hill	215-449-2300
PA	Powell Elect Phila	215-365-1900
PA	CAM/RPC Pittsburgh	412-782-3770
PA	RESCO Elect Willow Grove	215-659-4575
SC	Dixie Elect Columbia	803-779-5332
TN	Bluff City Dist Memphis	901-345-9500
TN	Wholesale Elect Sply Dallas	214-824-3001
TX	Allied Elect Ft Worth	817-336-5401
TX	Newark-Dallas Garland	214-494-5911
TX	Wholesale Elect Austin	512-478-9568
TX	Ideal Indus Elect El Paso	915-779-6647
TX	Newark Elect Houston	713-782-4800
WA	Radar Elec Seattle	206-282-2511
WA	Almac Stroum Elec Bellevue	206-643-9992
WA	Industrial Elect Milwaukee	414-276-1212
WI	Marsh Elect Milwaukee	414-475-6000
FR	R-A-E Inc Elect Ltd Burnaby BC	604-291-8866
FR	Electro Sonic Willowdale ON	416-494-1666
FR	CESCO Montreal PQ	514-735-5511
FR	CESCO Toronto ON	416-661-0220
FR	Cardinal Indus Elect Calgary AB	403-483-6266
FR	Future Elect Pte Claire PQ	514-694-7710

VECTRIX CORP 2606 BRANCHWOOD DR		
GREENSBORO NC 27408		
TX	574417	919-288-0520
W WALLER EMP 31 ENG 10 \$1,000-\$2,500K		

DISTRIBUTORS		
MD	Distribution Plus Frederick	301-695-5300

VECTRON LABS INC 166 GLOVER AVE		
NORWALK CT 06850		
TX	710-468-3796	203-853-4433
L JAWITZ EMP 360 ENG 18 OVER \$10,000K		
ADV PG 302		

AL	Saber Assoc Huntsville	800-327-0853
AZ	Fetty/Schoenduve Phoenix	602-241-9009
AR	Automation Supplies Hot Springs	501-767-5444
CA	Fetty/Schoenduve Mt View	415-962-8330
CA	Fetty/Schoenduve El Segundo	213-322-4991
CO	TMA Parker	303-841-3435
CT	Meco Cheshire	800-225-3409
FL	Saber Assoc Melbourne	800-432-6288
GA	Saber Assoc Columbia	800-327-0853
IL	Heth Inc Bannockburn	312-295-8440
IN	Ihrig Assoc Indpls	317-783-7630
KS	C-Tron Inc Olathe	913-829-0073
MD	Tech Reps Inc Springfield, VA	703-569-6868
MA	Meco Reading	617-944-6660
MI	R P Urban Assoc Grand Rapids	616-245-0511
MN	Allied Component Reps Inc	
	Burnsville	612-435-7876
MS	Automation Supplies Signal Mtn	615-886-6623
NJ	J Fredt & Assoc Woodcliff	201-391-6792
NM	J Smith & Assoc Albuquerque	505-265-3406
NY	Rep Tech Inc Syracuse	315-437-2845
NY	F & F Metro Great Neck	516-482-4080
NC	Saber Assoc Norcross	800-327-0853
OH	Allen Nace Co Englewood	213-836-0931
PA	SWR Assoc Newtown Square	215-356-8550
SC	Saber Assoc Norcross	800-327-0853
TN	Saber Assoc Pensacola	800-327-0853



Massachusetts (617) 749-6700 • Metro New York (516) 348-1300 • Connecticut (203) 265-4600 • New Hampshire (603) 898-1348

For product information see yellow pages For ADVERTISERS' CATALOGS see Directory of Catalogs (white pages)

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TX	Texas Avionics Dallas	214-437-5677
UT	TMA SLC	801-483-1009
VA	Tech Reps Springfield	703-569-6868
WA	Datacom Assoc Seattle	206-285-2525
FR	Soquelec Ltd Montreal PQ	514-482-6427

VEECO/INDUSTRIAL EQUIP DIV

TERMINAL DR PLAINVIEW	
NY 11803 TWX 510-221-1897	516-349-8300
A CARROZZO EMP 500 ENG 25 OVER \$10,000K	
CA Veeco Sunnyvale	408-733-3700
TX Veeco Austin	512-444-2852

VEEDER-ROOT 70 SARGEANT ST

HARTFORD CT 06102 TWX 94-6481	203-527-7201
J GARRISON EMP 1250 ENG 95 OVER \$10,000K	
CA Veeder-Root N Hollywood	503-0313
CA Veeder-Root Pleasanton	846-3500
CO Palmer Assoc Lakewood	233-9423
FL Veeder-Root Orlando	869-4343
IL Veeder-Root Palatine	358-6860
KS Veeder-Root Kansas City	761-1717
LA Engineered Products Baton Rouge	272-6955
MD Veeder-Root Baltimore	296-2177
MI Veeder-Root Ann Arbor	971-7555
MN Cardinal Controls Mpls	831-1711
OH Veeder-Root Cleveland	561-4777
PA Veeder-Root Willow Grove	887-0708
SC Veeder-Root Greenville	288-2133
TN Jordan/Marlar/Hale Memphis	452-7441
TX Veeder-Root Dallas	252-3360
WA Al Smith Co Bellevue	746-6770
FR Veeder-Root of Can Ltd	
Toronto ON	239-3094
FR Veeder-Root of Can Ltd	
St Laurent PQ	747-1213

DISTRIBUTORS

AL C F Wheelock & Assoc Birmingham	205-595-1172
AZ Minarik Tempe	602-233-3000
AR Marsuco Little Rock	501-646-1691
CA Minarik Elec LA	213-624-3161
CA Milligan Spika Oakland	415-562-6667
CO Tessco Denver	303-778-1119
CT Slitter-Holden W Hartford	203-232-4433
DE Tek Bearing New Castle	302-328-3555
FL Brownell Electro Orlando	305-843-6770
GA Brownell Electro Atlanta	404-762-5181
IL Kelburn Eng Chicago	312-775-8383
IN Vonnegut Ind Prods Indpls	317-899-8800
IA Electrical Eng & Eq Co	
Des Moines	515-282-0431
KS Barry Sales Engr Overland Pk	913-642-0270
ME Neil La Vieille Louisville	502-637-5401
MI Leen Co Portland	207-774-6266
MA Electro-Mechanical Dist Norwell	617-826-9714
MS Electrical Specialty Co Jackson	601-355-6656
MO Barry Sales Engr St Louis	314-821-2525
NE Lakeland Eng Omaha	402-734-2600
NH N H Ind Suppliers Nashua	603-883-0600
NJ Brownell Electro S Plainfield	201-753-4600
NY Angus Instr Buffalo	716-634-0640
NY Simcona Elect Rochester	716-328-3230
NC Cardinal Group Greensboro	919-852-8900
OH Adcon Engrg Cleveland	216-238-3915
OK Marsuco Tulsa	918-665-3002
OR Tek-Electric Portland	503-246-5451
PA Transmission Eng Ft Washington	215-643-2400
RI Brian Supply Providence	401-272-6400
SC Greenville Textile Greenville	803-292-6410
TX Don Shuhart Co Dallas	214-349-6000
TX Minarik San Antonio	512-822-7097
UT Western Controls SLC	801-292-5900
VA Otte Controls Richmond	804-794-3400
WI A A Electric Cedarburg	414-377-8000

VEETRONIX INC BOX 480 LEXINGTON

NE 68850 TWX 910-960-4741	308-324-4600
E HOWERTER EMP 36 ENG 4	

VEGA PRECISION LABS 800

FOLLIN LA VIENNA VA 22180	
TWX 89-2521	703-938-6300
W KINSLEY EMP 350 ENG 70 OVER \$10,000K	
CA L Woolman Camarillo	805-484-8584
TX Dallas Avionics Dallas	214-320-9770
FR Technitron Inc N Y	212-758-2790

VELONEX 560 ROBERT AVE

SANTA CLARA CA 95050	
TWX 910-338-0114	408-727-7370
K COFFEY EMP 60 ENG 10	

For Sales Offices See Following Velonex Listing

VELONEX 560 ROBERT AVE

SANTA CLARA CA 95050	
TWX 910-338-0114	408-727-7370
K COFFEY EMP 60 ENG 10	

AL Saber Assoc Huntsville	800-327-0853
AZ Scientific Devices Phoenix	602-957-0401
CA Scientific Devices San Jose	408-554-0455
CA Scientific Devices Huntington	
Bch	714-840-3501
CO Scientific Devices Broomfield	303-469-5145
FL Saber Assoc Melbourne	305-724-0920
GA Saber Assoc Lawrenceville	800-327-0853
HI Scientific Devices Honolulu	808-524-5282
IL K W Meyers Co Schaumburg	312-882-4808
IN K W Meyers Co Indpls	317-783-1030
MD Electronic Marketing Rockville	301-792-3930
MA Addeco Corp Needham	617-444-4754
MI Mc Shane Inc Medina	216-725-4568
MN K W Meyers Co Mpls	612-920-7080
MO Stantec Sales Platte City	816-431-2211
NM Scientific Devices Albuquerque	505-293-3494
NY PAF Assoc Smithtown	516-360-0940
NC Saber Assoc Clayton	919-553-5564
OH Mc Shane Inc Medina	216-725-4568

PA Electronic Marketing Plymouth

Mtg	215-828-7400
TX Tech Rep Mktg Dallas	214-241-2434
UT Scientific Devices W Valley City	801-966-0105
VA Electronic Marketing Richmond	804-320-8801
WA Scientific Devices Marysville	503-248-6340
WI K W Meyers Co Brookfield	414-784-3790

VEMALINE PRODS DIV O B TEST

GROUP INC BOX 6267 PROVIDENCE	
RI 02940 TWX 927573	401-739-7600
D PETRONE EMP 37 ENG 1 \$1,000-\$2,500K	
CA Ruby Sales Corp San Jose	408-224-0881
CA Van Gott & Assoc San Gabriel	818-445-9728
CO Delconec Inc Arvada	303-422-7023
FL OEM Mktg Orlando	305-299-1000
GA Millar Elctns Atlanta	404-261-6160
IL Ropak-Cahill, Inc Chicago	312-631-0070
KJ Delltron Inc St Louis	314-869-4779
MA Marathon Sales Ltd Framingham	617-875-3566
MI Howard Asso Wyoming	616-532-2161
MN Bitronics Eden Prairie	612-835-7744
MO Delltron Inc St Louis	314-869-4779
NJ Andrews & Andrews Morristown	201-569-8800
NY Nu-Tekneex Mktg Guilderland	518-355-1829
NY Andrews & Andrews Huntington	516-692-8686
NC Millar Elctns Raleigh	919-787-9564
OH Loesch Assoc Rocky River	216-333-0077
PA IMSCO Abington	215-659-0444
TX Blackburn Assoc Dallas	214-692-8885
WA F W Aurich & Co Seattle	206-284-5561
FR John G Weiss Ltd St Laurent PQ	514-337-5022
FR Montclair Elctns Intl New Rochelle NY	914-576-1400

DISTRIBUTORS

CA Ruby Stok Co Sunnyvale	408-739-5333
CT Park Distb Norwalk	203-853-2011
IN Advent Elect Indpls	317-297-4910
MD Aztech Elect Glen Burnie	301-261-2944
MN Cassidy Elct Mpls	
NY Broadline Elect Farmingdale	516-420-8320
NY Summit Distb Buffalo	716-884-3450
OK Radio Inc Tulsa	918-587-9123
TX Industrial Elect Ft Worth	817-731-7321
WA Aimsco Seattle	206-284-5563

VENABLE INDUSTRIES INC

3555 LOMITA BLVD TORRANCE	
CA 90505	213-539-2522

VENATOR SYSTEMS INC BOX 32186

SAN JOSE CA 95152	408-262-7788
R HUNTER \$1,000-\$2,500K	

VENT-RAC DIV GENERAL DEVICES

CO INC BOX 39100 INDIANAPOLIS	
IN 46239 TWX 27-2169	317-897-7000
G FEEST EMP 250 ENG 6	
AL Hughes Assoc Huntsville	205-533-9108
AZ R F Mayo & Assoc Boulder	303-499-2155
CA G C Woemphner Co Mt View	415-964-5454
CA Groh Assoc Fullerton	714-738-7105
CT Coakley Boyd & Abbott North Haven	203-481-2828
FL Jack Krutek & Assoc Lighthouse Pt	305-941-6544
GA Hughes Assoc Atlanta	404-252-7486
IL Howard Benjamin Assoc Glencoe	312-835-0150
IN Century Elctns Corp Noblesville	317-849-2026
KS Lowell Kangas & Assoc Shawnee Mission	913-631-3515
MD Monteiro Assoc Doylestown	215-345-5855
MA Coakley Boyd & Abbott Needham Hts	617-444-5470
MN Northport Engrd Inc St Paul	612-457-8000
MO Lowell-Kangas & Assoc St Louis	314-821-4050
NH Coakley Boyd & Abbott Plaistow	617-444-5470
NJ H G Richter Inc Mountaineire	201-233-4615
NY H G Richter Inc Fayetteville	315-637-6713
NC Hughes Assoc Raleigh	919-782-2065
OH Electronic Components Miamisburg	513-866-3340
OK Advance Tech Sales Tulsa	918-664-0482
TX Advance Tech Sales Dallas	214-340-1300
WA Bergford & Assoc Olympia	206-866-2001

VENUS SCIENTIFIC INC 399

SMITH ST FARMINGDALE NY 11735	
TWX 510-224-6492	516-293-4100
J MORRISON EMP 400 ENG 35 OVER \$10,000K	
ADV PG 343	

MA MPS Electronics 1410 Providence Hwy Norwood	617-769-8700
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VERMONT AUTOMATION CO INC

18 MORSE DR ESSEX JUNCTION	
VT 05452	802-879-7571
J MARSHALL EMP 6 ENG 2	

VERMONT PRECISION RESISTOR CO

BOX 1170 STOWE VT 05672	802-253-8567
EMP 8 ENG 1 \$500-\$1,000K	

VERNAV LAB INC BOX 310

YELLOW SPRINGS OH 45387	
TWX 205433	513-767-7261
M WEINRICH EMP 400 ENG 35 OVER \$10,000K	

VERNITECH DIV VERNITRON CORP

300 MARCUS BLVD DEER PARK	
NY 11729 TWX 510-227-6079	516-586-5100
M BUTENSKY EMP 294 ENG 20	

AL Remco Huntsville	205-533-3763
AZ Halbar Assoc Fountain Hills	602-837-2464
CA Halbar Assoc Glendale	213-426-8263
CA Halbar Assoc San Mateo	415-349-4700
CO T M A Parker	303-481-3435
CT Selmark Assoc Cheshire	203-272-9881
GA Remco Atlanta	404-447-6937
IL Howard Benjamin Assoc Glencoe	312-835-0150

IN Rixan Assoc Dayton	513-278-4216
IA Dytronix Inc Cedar Rapids	319-377-8275
KS Dytronix Inc Independence	816-373-6600
MD R P Luce Baltimore	301-752-8200
MA Selmark Assoc Millis	617-376-2914
MI C M & P Farmington Hills	313-477-7700
MN Vikeland Sales St Paul	612-645-4647
MO Dytronix Bridgeton	314-731-5799
NH Selmark Assoc Concord	603-623-5774
NJ Lansco Assoc Cherry Hill	609-424-4670
NY Comtronix Assoc Melville	516-249-0605
NY Net Sales Fairport	716-467-4538
NC Remco Raleigh	919-847-5079
OH Rixan Assoc Dayton	513-278-4216
OR Halbar Beaverton	503-226-0405
PA R P Luce Maplewood Shade NJ	609-482-5341
TX Seaton Corp Dallas	214-380-0411
UT TMA SLC	801-254-6418
VA R Luce Pouhatin	804-598-2095
WA Halbar Redmond	206-882-0990

VERNITRON CONTROL COMPONENTS

DIV VERNITRON CORP 1601	
PRECISION PK LA SAN DIEGO	
CA 92073 TWX 910-322-1862	619-428-5581
S RADO EMP 200 ENG 6	
AZ Kachina Assoc Sun Lakes	602-253-7086
CA Halbar Assoc Glendale	213-246-8263
CT Kitchen & Kutchin Inc North Haven	203-239-0212
FL Mackay Smith & Assoc Orlando	305-277-1513
IL Howard Benjamin Assoc Glencoe	312-835-0150
MA Kitchen & Kutchin Inc Burlington	617-229-2660
NJ Lansco Assoc Cherry Hill	609-424-4670
NY Metro Tech Sales Corp Jericho	516-935-3330
NY Net Sales Fairport	716-467-4538
OH Rixan Assoc Dayton	513-222-0011
TX Norcom Inc Dallas	214-386-4888

VERNITRON CORP BEAU PRODUCTS DIV

117 UNION AVE BOX 10 LACONIA	
NH 03247 TWX 710-364-1843	603-524-5101
E PICKERING EMP 250 ENG 7 OVER \$10,000K	

AZ Knight Co Phoenix	602-582-8506
CA Nova-Tronix Elec Sales	
Santa Clara	408-727-9530
CA Knight Co LA	213-670-2833
CO Wm J Purdy Co Denver	303-753-6800
CT Ray Perron & Co Farmington	203-673-4825
FL Cartwright & Bean Orlando	305-422-4531
GA Cartwright & Bean Atlanta	404-233-2939
IL W G Controls Lisle	312-963-5954
LA Cartwright & Bean Covington	505-892-1780
MA Ray Perron & Co Needham	617-449-6162
MI Luebbe Sales Co Livonia	313-477-3131
MN Hei-Lite Sales Inc Mpls	612-861-6051
MS Cartwright & Bean Jackson	601-981-1170
MO KKB & Co St Louis	314-647-2400
NH Ray Perron & Co Dover	603-742-2321
NJ Grimm Siegel Assoc W Caldwell	201-575-9300
NM C T Carlberg & Assoc Albuquerque	505-883-3885
NY Rudell-Merrifield Assoc Buffalo	716-634-4300
NC Cartwright & Bean Inc Charlotte	704-377-5673
OH Jim Finnegan & Co Cleveland	216-238-5905
OK Erickson Sales Broken Arrow	918-455-4276
PA L D Lowery Assoc Broomall	215-356-5300
TN Cartwright & Bean Inc Memphis	901-276-4442
TX Erickson Sales Dallas	214-739-5833
WA Evergreen Mkt Group Seattle	260-633-3160
FR Avotronic Ltd Markham ON	416-475-2024
FR Hi-Tech Sales Winnipeg MB	204-786-3343

VERNITRON PIEZOELECTRIC DIV

232 FORBES RD BEDFORD	
OH 44146-5478 TWX 810-427-2274	216-232-8600
W DORN EMP 120 ENG 5 \$5,000-\$10,000K	
ADV PG 82	

CA GRU Assoc 1105 E Commonwealth Fullerton	714-738-0903
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VERSAFRAME CONTROLS DIV

EBBERT ENG CO 1925 W MAPLE RD	
TROY MI 48064	313-649-9314
K RICHARDSON EMP 15 ENG 2 \$500-\$1,000K	
IL Electrol Spec So Beloit	815-389-2291
NY Mektron Inc Hawthorne	914-747-0101
OH S & S Control Co Toledo	419-729-5424
OH E-C-P Corp Cleveland	216-391-0444

VERSALOGIC 3888 STEWART RD

EUGENE OR 97402	503-485-8575
R LUTZ	

VERSA MACHINERY DIV FOSTER

& ALLEN INC 46 4TH ST	
SOMERVILLE NJ 08876	
TWX 842-321 VERSA SVI	201-526-6100
C WEST EMP 30 ENG 5 \$1,000-\$2,500K	

VERSATEC INC 2710 WALSH AVE

SANTA CLARA CA 95051	
TWX 910-338-0243	408-988-2800
R MURRAY EMP 1000 ENG 100 OVER \$10,000K	
AZ Versatec Scottsdale	602-941-1452
CA Versatec Santa Clara	408-985-5810
CA Versatec Newport Beach	714-752-5561
CO Versatec Denver	303-759-1090
CT Versatec Hamden	203-281-7604
IL Versatec Schaumburg	312-885-9610
KS Versatec Overland Pk	913-341-8003
MD Versatec Rockville	301-424-0920
MA Versatec Framingham	617-879-8520
MI Versatec Plymouth	313-453-5800
NY Versatec Melville	516-249-4422
OH Versatec Miamisburg	513-859-5021
PA Versatec Wayne	215-293-0920
TX Versatec Houston	713-981-1967

VERSTRON DIV KEENE CORP		
6310 CHILLUM PL NW WASHINGTON		
DC 20011-1491 TWX 710-882-1179	202-722-8600	
W CARTER EMP 95 OVER \$10,000K		
VERTEX ELECTRONICS INC		
61 EXECUTIVE BLVD FARMINGDALE		
NY 11735 TWX 143155	516-293-9880	
P SHAH EMP 100 ENG 3 OVER \$10,000K		
CA Vertex/CCP Torrance	203-212-6066	
CT Vertex Electronics Derby	203-736-6511	
MD Vertex Mid-Atlantic Hanover	301-796-5000	
NY Computer Cable Prods Farmingdale	516-293-1610	
OH Vertex Wire & Cable Cleveland	216-831-7140	
VERTEX INDUSTRIES INC VERTEL DIV		
23 CAROL ST CLIFTON NJ 07014		
TX 710-989-7021	201-472-2121	
R BYER EMP 70 ENG 5 \$2,500-\$5,000K		
CA California Elctr Mktg Santa Ana	714-835-2702	
CA Ledy Assoc Mountaintopview	415-969-6313	
FL Electrographic Sys Plantation	305-587-8259	
GA Electrographic Sys Duluth	404-449-8150	
IL Quad Data Inc Elk Grove Village	312-228-1722	
JN Carter, McCormic & Pierce Indpls	317-244-1685	
KS Panatek Inc Shawnee Mission	913-362-3349	
MA Daner Hayes Inc Wayland	617-655-0888	
MI Carter, McCormic & Pierce		
Farmington Hills	313-477-7700	
NJ GL Williams Assoc Haddonfield	609-428-6060	
OH Carter, McCormic & Pierce Dayton	513-836-0951	
PA Carter, McCormic & Pierce		
Pittsburgh	412-372-4415	
TX IBL Engineering & Sales Dallas	214-363-2921	
WI Quad Data Inc Oak Creek	414-761-1623	
FR Electrodesign Ltd Lachine PQ	514-636-4838	
FR Electrodesign Ltd Vanier ON	613-745-0541	
FR Electrodesign Ltd Winnipeg MB	204-338-5050	
VERTEX PERIPHERALS CORP		
800 TASMAN DR MILPITAS		
CA 95035 TWX 353473	408-943-9530	
J ADKISSON		
VERTICOM INC 545 WEDDELL DR		
SUNNYVALE CA 94089 TWX 754044	408-747-1222	
B BUTCHKO		
VESTA TECHNOLOGY 7100 W 44 AVE		
WHEAT RIDGE CO 80033	303-422-8088	
R WARRINGTON EMP 5 ENG 2 \$100-\$250K		
VETTER CO A R BOX 143		
REBERSBURG PA 16872	814-349-5461	
A VETTER		
CA Service Associates Encinitas	619-753-1776	
CA Pacer Scientific Instruments LA	213-462-0636	
IL Edw McGowan Assoc Elmhurst	312-530-5556	
NY E P Nelson Huntington Station	516-423-7677	
FR Baytronix Ltd Montreal Que	514-336-9240	
VIA SYSTEMS INC 76 TREBLE		
COVE RD NORTH BILLERICA		
MA 01862 TWX 94-8647	617-667-8574	
EMP 80		
CA D Tarpley Milpitas	408-434-0789	
MN J Ray Minneapolis	612-476-0646	
VIATRAN CORP 300 INDUSTRIAL DR		
GRAND ISLAND NY 14072		
TX 710-260-1353	716-773-1700	
R SCHLEHR EMP 150 ENG 8 \$5,000-\$10,000K		
AL Hile Control of AL Birmingham	205-879-2990	
AZ Lee Assoc Paradise Valley	602-947-9003	
CA Saber Entrps Long Beach	213-595-5646	
CA Saber Entrps Mt View	415-968-0427	
IL ITI Systems Crystal Lake	815-455-1411	
IN Tech Sales & Mktg Indpls	317-849-6612	
IA BSI Ltd Bettendorf	319-355-5623	
LA Barrett & Assoc Baton Rouge	504-273-2683	
MN Finn & Conway St Louis Pk	612-593-1273	
NJ RJM Assoc Scotch Plains	201-322-7880	
NY Davco Sys Grand Island	716-773-6600	
NC W K Hile co Matthews	704-847-9125	
OH Advanced Tech Assoc Westlake	216-835-5050	
OK Bauman Instruments Tulsa	918-492-8086	
PA Multi-Measurements Warminster	215-675-3082	
TX Pan/Tech Controls Arlington	817-640-3232	
VA Hile Controls of Va Chester	804-796-3001	
WA Calvert Controls Medical Lake	509-244-3601	
FR Galvanic Controls Alberta	403-438-6241	
FR Willer Engrg Willowdale ON	416-499-4421	
VIBRA-METRICS INC 1014		
SHERMAN AVE HAMDEN CT 06514		
TX 710-465-0169	203-288-6158	
J JUDD EMP 19 ENG 3 \$1,000-\$2,500K		
CA Saber Enterprises Long Beach	213-595-5646	
CA Saber Enterprises San Diego	619-271-1523	
FL Electronic Dev & Cont Ft		
Lauderdale	305-974-2500	
IN Comtel Midwest Co Indpls	317-253-1681	
NH Compline Chester	603-887-3515	
NJ Blejwas Assoc Basking Ridge	201-221-1440	
NY Osheas Assoc Baldwinville	315-635-6027	
NC Lee Assoc Raleigh	919-848-8818	
OH Comtel Instruments Cleveland	216-442-8101	
PA AIM Somerville	201-725-2464	
TN Mace Instr Co Knoxville	615-938-3773	
TX Techsas Inc Houston	713-578-3750	
FR OSTCO Assoc Coe St Luc PQ	514-482-3257	
FR Interworld Elect No Vancouver BC	604-984-4171	
VIBRO-METER CORP 1 PROGRESS		
RD BOX 5058 BILLERICA		
MA 01822-5058 TWX 710-320-1872	617-663-7322	
R AMIOT EMP 30 ENG 5		
AL Burnette Techno-Metrics		
Huntsville	205-830-2832	
AZ Trembly Assoc Tempe	602-967-2058	

CA W I Carson San Carlos	415-591-8616	
CA Pope Organization Costa Mesa	714-642-0783	
CA FLW Inc San Diego	714-277-0993	
CO Trembly Assoc Wheat Ridge	303-421-8900	
CT Pat Jenks Assoc Wallingford	203-265-9939	
FL Meagher & Assoc Maitland	305-645-3063	
GA FLW Southeast Marietta	404-424-1731	
IL J E M Entrps Cary	312-639-1770	
IN Loren Green Assoc Indpls	317-293-9827	
MD MRT Co Towson	301-583-8329	
MA Daner Hayes Wayland	617-655-0888	
MI O'Hara Assoc Mt Clemens	313-791-7140	
MN Resource Technology St Paul	612-644-3064	
MO Ozark Elect Mktg St Louis	314-423-7200	
NM Trembly Assoc Albuquerque	505-266-8616	
OH R D Cloon Assoc Columbus	614-459-2890	
OR Thorson Co NW Beaverton	503-644-5900	
PA James Dell Co Kulpville	215-584-4925	
TX Griffin Sales Co Irving	214-256-6512	
UT Trembly Assoc SLC	801-486-5292	
WA Thorson Co Bellevue	206-455-9180	
VICKERS INSTRUMENTS INC		
300 COMMERCIAL ST MALDEN		
MA 02148 TWX 94 9413	617-324-0350	
A LYON EMP 15 OVER \$10,000K		
VICLAN INC BOX 81403 SAN DIEGO		
CA 92138 TWX 472 3069/3060	714-292-1411	
R BELTER EMP 250 ENG 15 OVER \$10,000K		
VICON INDUSTRIES INC 525		
BROAD HOLLOW RD MELVILLE		
NY 11747 TWX 144581	516-293-2200	
I CHAMBERS EMP 410 ENG 22 OVER \$10,000K		
VICOR CORP 23 FRONTAGE RD		
ANDOVER MA 01810		
TX 910-380-5144	617-470-2900	
R BEEDE		
AL Novus Group Huntsville	205-881-2207	
CA Electro-Venture Laguna Hills	714-581-9244	
CO H B Mktg Los Altos Hills	415-941-4080	
CT Bell Controls	203-563-2393	
GA Novus Group	404-381-1745	
MD Eagle Sales Hunt Valley	301-666-3930	
NJ Bell Controls Nashville	603-882-6984	
NC Novus Group	919-872-6542	
TX Dynamark Dallas	214-437-3333	
VICTOR CORP 618 MAIN ST		
WEST WARWICK RI 02893		
TX 710-382-1534	401-821-7800	
E COLASANTO EMP 700 ENG 20 OVER \$10,000K		
CA Class I San Jose	408-297-8666	
CO Electrodyne Aurora	303-695-8903	
FL OEM Mktg Orlando	305-299-1000	
IL Therme Inc Arlington Hts	312-577-6900	
KS Thunderbird Wichita	316-684-3941	
MD Arbotech Towson	301-825-8200	
MN Allyn Assoc Mound	612-472-4784	
NY Sonkin Assoc Yonkers NY	914-968-8282	
NY W A Franklin Sales Pittsford	716-248-8251	
NC Blair Engineering Greensboro	919-292-8200	
OH Matherly & Assoc Dayton	513-223-0044	
PA Omega Sales Huntingdon Valley	215-947-4135	
TN Groover Assoc Franklin	615-794-6344	
TX ATS Dallas	214-404-1300	
UT Electrodyne Salt Lake City	801-486-3801	
WI Cuccaro Co Crystal Lake IL	815-459-1752	
FR Componectics Ltd St Laurent PQ	414-334-1464	
VICTOR MICROWAVE INC 38		
W WATER ST WAKEFIELD MA 01880		
TX 710-350-7544	617-245-4472	
S PARKS EMP 56 ENG 7 \$2,500-\$5,000K		
VICTOR WIRE & CABLE CORP		
3801 HOLDREGE AVE LOS ANGELES		
CA 90016	213-870-9933	
J VORE EMP 25 ENG 1 \$500-\$1,000K		
VICTOREEN INC 10101 WOODLAND AVE		
CLEVELAND OH 44104 TWX 810		
421-8287	216-795-8200	
K GERLOCK EMP 320 ENG 30 OVER \$10,000K		
CA B Costa Scotts Valley	408-438-2110	
MA D Pellegrini Newton	617-964-2226	
TX S Roberts Garland	214-279-2747	
DISTRIBUTORS		
MD Axis Electronics Gaithersburg	301-840-9640	
MA C S I Lexington	617-863-0525	
OH Pruitt Electronics Cleveland	216-566-1545	
OH Whitehead Electronics Columbus	614-224-1186	
VICTORY ENGINEERING CORP		
VICTORY RD BOX 559		
SPRINGFIELD NJ 07081		
TX 710 983-4430	201-379-5900	
J BACEK EMP 300 ENG 25		
AL Rep Inc Huntsville	205-881-9270	
CA Fetty/Schoenduve El Segundo	213-322-2430	
CA Fetty/Schoenduve Mt View	415-962-6330	
CT Corn-Sale Wallingford	203-269-7964	
GA Rep Inc Tucker	404-938-4358	
IL Interrep Inc Mt Prospect	312-577-8899	
IN McFadden Sis & Mkt Columbus	614-459-1280	
MA Corn-Sale Waltham	617-444-8071	
MN International Sales Co Mpls	612-831-8423	
NY Fowler Beach Corp Rochester	716-586-0468	
OH McFadden Sis & Mkt Columbus	614-459-1280	
TX Southwest Elctr Industries		
Dallas	214-690-9881	
WA Datacom Assoc Seattle	206-285-2525	
FR Electro Source Rexdale ON	416-675-4490	
DISTRIBUTORS		
CA Abacus Elect Mt View	415-961-1500	
TX Wholesale Elect Sply Dallas	214-824-3001	

VIDAR CORP BOX EB-535 KENT		
OH 44240 TWX 810-437-2333	216-673-7413	
E DAVIS EMP 108 ENG b \$1,000-\$2,500K		
VIDEO DISPLAY CORP 5530		
E PONCE DE LEON BOX 542		
STONE MOUNTAIN GA 30086	404-938-2080	
B CRONIN EMP 60 ENG 5 OVER \$10,000K		
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DON BOSCO PL PORT CHESTER		
NY 10573	914-939-4919	
S SIMONS EMP 20 ENG 2 \$500-\$1,000K		
VIDEO LOGIC CORP 597 N		
MATHILDA AVE SUNNYVALE		
CA 94086 TWX 35-7400	408-245-8622	
Y HICHBORN EMP 49 ENG 5		
CT H Mellaly Madison	203-421-3838	
PA N DuBois Chicora	412-445-3918	
TX R Senn Rockwall	214-722-3069	
VIDEO MONITORS INC 3833		
N WHITE AVE EAU CLAIRE		
WI 54703 TWX 510-100-1880	715-834-7785	
J CARPENTIER EMP 95 ENG 10 \$5,000-\$10,000K		
VIKING CHEMICAL PRODUCTS INC		
BOX 269 WAVERLY NY 14892	607-565-4551	
D BENJAMIN EMP 6 ENG 1		
AZ Chas T Fink & Assoc Phoenix	602-992-9884	
CT Abbott-Allison Co Branford	203-481-0405	
IL Miller Sales Co Wauconda	312-526-2900	
NY Rolco Labs Dorset VT	802-867-5956	
OH Herb Nechemias Sales Cincinnati	513-791-2941	
TX C J Garvey Co Richardson	214-234-3371	
WA Olson, Ferree & Assoc Bellevue	206-883-7792	
VIKING CONNECTORS CO BOX 2379		
CHATSWORTH CA 91311		
TX 910-494-2094	213-341-4330	
EMP 500 OVER \$10,000K		
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AL Hallmark Elect Huntsville	205-837-8700	
AZ Sterling Elect Phoenix	602-268-2121	
AZ Acacia Sales Tempe	602-894-2874	
AZ Time Elect Tempe	602-967-2000	
CA Acacia Sales Irvine	714-660-0834	
CA Richey Western Santa Clara	408-727-7411	
CA Acacia Sales Sunnyvale	408-745-7200	
CA LoDan Elect Belmont	515-592-4600	
CA Time Elect/West Torrance	213-320-0880	
CA Richey Western San Diego	619-271-4511	
CA Time Elect Anaheim	714-937-0911	
CA Time Elect Chatsworth	818-998-7200	
CA Hallmark Elect Citrus Heights	916-722-8600	
CO Acacia Sales Lakewood	303-232-2882	
CO Hallmark Elect Englewood	303-694-1662	
CT Utronics Stratford	203-378-4201	
CT Sterling Elect Wallingford	203-265-9535	
CT Time Elect Cheshire	203-271-3200	
FL Hall-Mark Elect Orlando	305-855-4020	
FL Time Elect/Ft Lauderdale	305-974-4800	
FL Hall-Mark Elect Pompano Beach	305-971-9280	
FL Lodan Elect Largo	813-595-5811	
GA Electro Air Corp Atlanta	404-351-3545	
GA Hall-Mark Elect Norcross	404-447-8000	
IL Lodan Elect Arlington Hts	312-398-5311	
IL Hall-Mark Elect Bensenville	312-860-3800	
IN Mar Elect Indianapolis	317-875-4510	
KS Hallmark Elect Lenexa	913-888-4747	
KS Sterling Elect Overland Park	913-236-5589	
LA Sterling Elect Avondale	504-436-1418	
MD Hallmark Elect Columbia	301-988-9800	
MD Time Elect Columbia	301-984-3090	
MD Time Elect/NE Woburn	617-935-8080	
MA Sterling Elect Woburn	617-938-6200	
MA Pilgrim Elect N Chelmsford	617-251-8746	
MI LWC Dist Livonia	313-464-7700	
MN Industrial Components Mpls	612-831-2666	
MN Hall-Mark Elect Bloomington	612-854-3223	
MN Time Elect Bloomington	612-944-9192	
MO Hallmark Elect Earth City	314-291-5350	
MO Time Elect/Mid-West St Louis	314-391-6444	
NJ Mid-Atlantic Elect Bellmawr	609-931-5303	
NJ Sterling Elect Perth Amboy	201-442-8000	
NJ Hallmark Elect Fairfield	201-575-4415	
NM Sterling Elect Albuquerque	505-884-1900	
NM Betatron Albuquerque	505-344-2381	
NY Summit Dist Buffalo	716-887-2800	
NY Landmark Elect Ld Plainview	516-293-7441	
NY Time Elect Hauppauge	516-273-0101	
NC Hallmark Elect Raleigh	919-872-0172	
NC Time Elect Charlotte	704-847-5792	
OH Electro Line Inc Dayton	513-461-5683	
OH Hall-Mark Elect Solon	216-349-4632	
OK Time Elect Dublin	614-761-1100	
OK Sterling Elect Tulsa	918-663-2410	
OK Hall-Mark Elect Tulsa	918-665-3200	
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OR Time Elect Portland	503-684-3780	
PA Time Elect/Mid Atlantic		
King of Prussia	215-258-8848	
TX Sterling Elect Houston	713-627-9800	
TX Hall-Mark Elect Dallas	214-343-5000	
TX Hall-Mark Elect Houston	713-781-6100	
TX Sterling Elect Dallas	214-243-1600	
TX Sterling Elect Austin	512-836-1451	
TX National Connect-Tronix Dallas	214-788-2477	
UT Hall-Mark Murray	801-268-3779	
VA Sterling Elect Richmond	804-226-2190	
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WI Hall-Mark Elect Berlin	414-797-7844	

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CA 94043 TWX 910-379-6555 415-969-5500

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SHELTER ROCK RD DANBURY
CT 06810 TWX 710 456-1217 203-744-4600
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FL Fay Elect Wire Tampa 813-253-0599
IL Fay Elect Wire Chicago 312-267-9222
TX Fay Elect Wire Houston 713-923-2825
WI Fay Elect Wire Oshkosh 414-426-0792

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NJ 07503 201-345-5800
J SONATORE EMP 43 ENG 5 \$1,000-\$2,500K

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WAYNESBORO VA-22980
TWX 710-839-0406 703-949-8376
JSTOWERS EMP 215 ENG 7 \$5,000-\$10,000K
CA J Taylor Ventura 805-644-6640
CA VPC Anaheim 714-634-4397
MA VPC Woburn 617-933-8503

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ROANOKE VA 24015
TWX 710-870-0440 703-985-3811
D GOODE EMP 100 ENG 2 \$2,500-\$5,000K
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CA Pitts Sales Assoc Campbell 408-378-4848
CO Mikro Sales Parker 303-841-4131
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GA H & H Marketing Stone Mountain 404-296-4830
IL Aid Electronics Irving 214-259-4761
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MN Northstar Components Mnpls 612-553-1888
NJ Kay Sales Haworth 201-384-3261
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63 LINCOLN HWY MALVERN
PA 19355 TWX 510-668-8944 215-644-1300
G SMITH EMP 250 ENG 25

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CA Vishay Fullerton 714-738-1581
CA Vishay Cupertino 408-730-1292
CO Components Sales Inc Englewood 303-779-8060
CT Comp Rep Assoc Wallingford 203-269-1145
FL Semtron Assoc Altamonte Sprgs 305-831-8233
GA Remco Atlanta 404-447-6937
ID N R Schultz Co Boise 208-377-8686
IL Eagle Tech Sales Rolling Meadows 312-991-0700
IN Shamrock Electronic Sales Carmel 317-848-5265
KS Technical Sales Assoc Olathe 913-829-2800
MD J A Dougherty Sales Co 301-321-7890
MA Comp Rep Assoc Westwood 617-329-3454
MI Enco Marketing Bloomfield Hills 313-642-0203
MN Proud Industries St Paul 612-646-9208
MO Technical Sales Assoc Ferguson 314-725-5361
NJ K & R Eng Sales Flanders 201-584-5235
NM Compass Mktg & Sales Albuquerque 505-888-0800
NY L Mar Assoc Rochester 716-323-1000
NY L-Mar Assoc E Syracuse 315-437-7779
NC Remco Raleigh 919-847-5079
OH EMA Inc Centerville 513-433-2800
PA Tai Corp Bellmawr NJ 215-627-6615
TX Vishay Houston 713-550-0568
UT Components Sales Inc SLC 801-268-8440
WA Priebe Electronics Kirkland 206-821-4695
WA N R Schultz Co Bellevue 206-454-0300
FR Kaytronics Inc Ville St 514-367-0101
FR Comp Rep Assoc Mayaguez PR 809-832-9529
FR Kaytronics Inc Concord ON 416-669-2262
FR Kaytronics Inc Surrey BC 604-581-8411

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AZ Bell Industries Tempe 602-966-7800
AZ TTI Inc Phoenix 602-966-1616
CA Shelley Electronics Chatsworth 818-998-3333
CA Shelley Electronics San Jose 408-942-9111
CA Shelley Electronics San Diego 619-453-7133
CA Semi-Dice Inc Santa Clara 408-980-9777
CA TTI Inc Chatsworth 818-709-1010
CA Hi-Rel Elect Irvine 213-594-9571
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DC RESCO Beltsville 301-937-9100
FL Impala Electronics Tampa 813-885-4747

FL TTI Inc Orlando 305-859-1000
GA TTI Inc Norcross 404-662-0911
ID A-I Electronics Spirit Lake 208-623-3111
IL RESCO/Bait White Marsh 312-359-5500
MD TTI Woburn 617-938-8800
MA Semi-Dice Inc Canton 617-821-0070
MA GHPS Inc Fairfield 201-882-0997
NJ VKR Services Flanders 201-584-5235
NY Command Electronics Farmingdale 516-293-1212
NY Shelley Electronics Bohemia 516-567-7751
NY Mast Dist Hauppauge 516-273-4422
NY TTI Inc Ronkonkomo 516-737-2000
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TX Texas Components Houston 713-468-3882
TX TTI Ft Worth 817-831-0441
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PA 18974 TWX 386-280 215-322-2255
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J MICHAELS EMP 9 ENG 2 \$500-\$1,000K
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CA Associated Rep Co Torrance 213-328-6708
CA Westech Sales Mt View 415-961-1422
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CA WBC Electro Supply Torrance 213-328-6871
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FL Component Distr Ft Lauderdale 305-971-4950
GA Component Distr Norcross 404-441-3320
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MI S F Elect Supply Grand Rapids 616-459-0216
MN Chris Elect Distr New Brighton 612-631-2647
NJ Mid Atlantic Elect Bellmawr 609-931-5303
NY Ancar Elect Supply Elmsford 914-592-7100
NY Plainview Elect Plainview 516-249-6677
NC Component Distr Raleigh 919-834-9465
OH IPD Centerville 513-435-2086
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OH Bearings Inc Cleveland 216-881-2828
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BRIDGEPORT CT 06601
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W JOHNSON EMP 450 ENG 20 OVER \$10,000K

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TWX 710-825-9642 301-231-1000
T ROBERTSON EMP 5700 ENG 1600 OVER \$10,000K
CA P Desmond Oxnard 805-487-5411
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WA H Garnett Silverdale 206-692-7811

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335 E PRICE ST PHILADELPHIA
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MN Yore Co White Bear Lake 612-770-9760
NJ TMC Sales Fort Lee 201-944-8340
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ADV PG 387

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E HYMAN EMP 11 ENG 3
CA Basic Trade Torrance 213-214-4677
IN Scott Electronics Indpls 317-897-9796
MA Hathaway Electronics Lexington 617-861-7010
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TWX 710 986-8253 201-887-1517
R NEWMAN EMP 75 ENG 4 \$2,500-\$5,000K

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CA Fetty-Schoenduve El Segundo 213-322-4991
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CO Herb Bass Assoc Boulder 303-530-7509
FL Beacon Elctns Boca Raton 305-392-3500
GA Beacon Elctns Atlanta 404-256-9640
IL R-Tek Central Palatine 312-991-4404
IA Howard R Brown Co Cedar Rapids 319-366-0635
KS S W Wollard Co Parker 913-898-6552
MA J K Assoc Malden 617-321-2922
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MO Harold Abrams & Assoc St Louis 314-569-0447
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NY RF Electronic Sales Melville 516-420-8890
NY B D Hummel Co Utica 315-736-7821
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PA Electro-Rep Lancaster 717-299-5877
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VA Beacon North Inc Fairfax 703-591-1300
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FR Vitel Elctns Mississauga ON 416-676-9720

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E STONE EMP 245
CA Foremost Products Arcadia 818-444-3006
CO T Keeton Jr Denver 303-756-6897
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NY K Sales Nanuet 914-623-3976
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NY	Command Farmingdale	516-293-1212
NY	Fairmont Happaugue	516-231-3313
NY	L & S Valley Stream	516-561-2474
OH	EMC Columbus	614-299-4161
OH	Bell Industries Dayton	513-434-8231
TX	TTI Ft Worth	817-831-0441
WA	R Priebe Seattle	206-682-8242

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SAN DIEGO CA	92111	
TXW	910-335-1586	619-279-6572
W KRAUS EMP 20	ENG 1 \$1,000-\$2,500K	

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L COHEN EMP 130	ENG 7 \$5,000-\$10,000K	

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ME	Douglas Davis & Assoc	
	Scarborough	207-883-3629
MD	Automation Indus Control	
	Baltimore	301-747-0044
MA	John Michaels Co Beverly	617-922-7004
MI	Cascade Sales Grand Rapids	616-455-7720
MI	Garrett-Burgess Novi	313-348-0300
MN	Wm B Odegard Co Mnpls	612-929-2226
NJ	Long, Poveromo & Assoc Oceanport	201-229-4666
NY	Thermal Sys of Rochester	
	Penfield	716-377-1970
NC	Halliday & Assoc Tryon	704-894-8205
OH	H Sterling & Assoc Cincinnati	513-474-5700
OK	Hill & Assoc Bellaire	713-661-6593
PA	King & Assoc Mount Joy	717-653-8081
SC	Halliday & Assoc Tryon	704-894-8205
TX	Hill & Assoc Dallas	214-869-1200
VA	Gregg & Assoc White Stone	804-435-1525
WA	NW Power & Plant Equip	
	Co Seattle	206-324-6880
WI	F C DuBois & Assoc Milwaukee	414-774-3100
FR	Elkon Electrical Co Ltd	
	Dorval PQ	514-636-0510
FR	Masten-Wright Corp New Haven Ct	203-288-1638

VYNET CORP	180 KNOWLES DR	
LOS GATOS CA	95030	408-370-0555
V ZUFFI		

WABASH ELECTRICAL COMPONENTS		
GROUP 1375 SWAN ST HUNTINGTON		
IN	46750 TWX 510-100-2867	219-356-8300
B QUEEN OVER \$10,000K		
IN	F E Dickmeyer Fort Wayne	219-432-4394
NC	R H Denecke Raleigh	919-847-4321
TX	N W Spangler Dallas	214-351-5603

DISTRIBUTORS

IL	NuWay Elect Distr Elk Grove	
	Village	800-323-7957

WABASH METAL PRODUCTS INC		
1569 MORRIS ST WABASH		
IN	46992 TWX 23-2451	219-563-1184
G TANNER EMP 70	ENG 7	

AZ	R A Dean Scottsdale	602-990-0621
CA	Metro Dynamics Fullerton	714-738-8130
CA	Cal Plas Equip Hayward	415-889-5456
CO	Circuit Supplies Broomfield	303-469-5317
FL	Photo Chemical Sys Casselberry	305-830-6313
GA	ABC Lemke Atlanta	404-255-7441
IL	Monco Engrd Sales Wasco	312-377-1522
IN	Monco Engrd Sales Michigan City	219-872-3050
KS	Van Dyke Assoc Prairie Vlg	913-341-3030
MD	B Alzua & Assoc Bel Air	301-838-5100
MA	Yankee Machy Sales Westboro	617-890-1767
MI	Manvel Machinery Troy	313-879-6636
MN	K F Wennik Co Minnetonka	612-933-0991
NJ	Vicor Plastics Equip Roselle	201-241-3033
NY	Adam Kreuter Assoc Rochester	716-546-1622
OH	Tosko Plastic Machy Hudson	216-650-4096
OR	American Circuit Supply Portland	503-644-7100
PA	Plastic Machy Systems Pittsburgh	412-563-5111
TX	W O S Assoc Greenville	214-455-0749
WI	Steritech Milwaukee	414-354-0970

WABASH RELAY & ELECTRONICS DIV		
FIRST & WEBSTER STS WABASH		
IN	46992 TWX 810-290-2722	219-563-2191
EMP 250	ENG 12 OVER \$10,000K	

AL	Hughes Assoc Huntsville	205-533-9108
AZ	Halbar Assoc Fontaine Hills	602-837-2464
CA	Halbar Assoc Glendale	818-246-8263
CA	Halbar Assoc San Mateo	415-349-4700
CO	Mountain View Mktg Aurora	303-699-1665
FL	APM Assoc Tampa	813-886-2457
GA	Hughes Assoc Norcross	404-662-1587
IL	M J Petersen & Assoc Arlington	
	Hts	312-577-8200
IN	M/S Sales Ft Wayne	219-436-3023
KS	Midtec Assoc De Soto	913-441-6565
MD	Macrotech Assoc Ltd Glen Burnie	301-437-5588
MA	Crawford Assoc Andover	617-470-2122
MI	Techrep Ypsilanti	313-572-1950
MN	PWC Edina	612-831-5999
NJ	Dolan Assoc Watchung	201-753-2671
NY	Upstate Component Sales Penfield	716-381-6070
NC	Tingen Technical SLS Raleigh	919-878-4400
OH	KW Elctn Sales Dayton	513-890-2150
PA	Component Consultants Medford NJ	609-654-5300
TX	Hughes Assoc Morristown	615-581-5971
TX	Stevens Sales Co Dallas	214-350-2476
WA	Halbar Assoc Vancouver	206-696-0170
FR	Renmark Electrs Ltd Toronto ON	416-494-5445

DISTRIBUTORS

CA	Pyramid Elect Sply Fullerton	714-773-0781
CA	Pyramid Elect Sply Santa Clara	408-727-9810
CT	Cronin Elect Wallingford	203-265-3134
FL	Action Electronics Inc Melbourne	305-242-3456
IL	Nu-Way Elect Dist Elk Grove Vlg	312-437-7120
MA	Cronin Elect Needham	617-449-5000
NH	Cronin Elect Salem	603-898-4440
TX	Aeromerica Inc Dallas	214-484-7508
WA	Pyramid Elect Sply Kent	206-872-5800

WACKER SILTRONIC CORP	BOX 03180	
PORTLAND OR	97203	
TXW	910-338-0564	503-243-2020
JAYLOR EMP 850		

CA	Wacker Siltronic San Jose	408-296-7887
NY	Wacker Siltronic New York	212-421-7033
PA	Wacker Siltronic King of Prussia	215-337-4455
TX	Wacker Siltronic Richardson	214-690-3057

WACOM PRODUCTS INC	BOX 21145	
WACO TX	76702 TWX 350160	817-848-4435
K PARSONS EMP 15	ENG 2	

WADSWORTH ELECTRIC MFG CO INC		
BOX 932 COVINGTON KY	41012	606-431-0900
D PHILLIPS		

WAHL CLIPPER CORP	2902 LOCUST ST	
STERLING IL	61081 TWX 468-461	815-625-6525
N WALLEN EMP 150	ENG 10 \$5,000-\$10,000K	

CA	Bidwell Sales Assocs Gardena	213-770-0300
CA	Technical Sales Assoc San Francisco	415-467-1434

CO	Wm J Purdy Co Denver	303-753-6800
FL	Unirep Inc Plantation	305-587-7481
IL	Bob Burns Assoc Park Ridge	312-775-1233
IN	Electronic Reps Indpls	317-894-1414
MD	Mid Atlantic Sales Silver Spring	301-593-7749
MA	Jonel Sales Assoc Milford	617-478-4650
MI	Central Elctn Sales Royal Oak	313-589-2266
MN	R C Sales Maple Grove MN	612-425-5453
MS	Mgr Sales & Mkt Serv	
	Hattiesburg	601-264-4755
MO	KKB & Co St Louis	314-647-2400
NY	Selectra Sales Bellmore	516-221-7865
NY	L J McTaggart Assoc Grand Island	716-773-9222
OH	Thos Shelby & Co St Mary's	419-394-3377
PA	David S Linz Inc Phila	215-379-0734
SC	Rohr-Wanger Roberts Inc	
	Rock Hill	404-233-9751
TX	Crockett Sales Co Dallas	214-350-3377
WA	Evergreen Mktg Group Seattle	206-633-3160

WAHL INSTRUMENTS INC	5750	
HANNUM AVE CULVER CITY		
CA	90231 TWX 664406	213-641-6931
W WAHL EMP 55	ENG 5 \$2,500-\$5,000K	

WALDES TRUARC INC	29-01	
BORDEN AVE BOX 1030 LONG		
ISLAND CITY NY	11101-4478	
TWX	126-829	718-392-3100

J ALTMAN EMP 400	ENG 6	
AR	R V Petershack Little Rock	501-225-9304
CA	R Winship Anaheim	714-749-8271
GA	A Williams Covington	404-786-3275
IL	G P Watkins Jr Woodridge	312-985-3958
IN	Davis/Hasiem Inc Noblesville	317-773-6311
MA	D Kelleher Shrewsbury	617-842-4763
MI	Armstrong Doran Inc Southfield	313-559-4828
NY	J D Bodie Fayetteville	315-637-6350
NY	A Bernstein Floral Park	718-343-3339
OH	Petrie-Ingram Co Cincinnati	513-421-2828
PA	K B Erdman Co Phila	215-224-1833
TX	R Petershack Richardson	214-234-5803
WI	T Kennedy Brookfield	414-784-0385
FR	Daemar Inc Oakville Ont	416-844-4561

WALDOM ELECTRONICS	4301 W 69 ST	
CHICAGO IL	60629 TWX 25-4604	312-585-1212
E BEUTLER		

WALKER SCIENTIFIC INC	ROCKDALE	
ST WORCESTER MA	01066	617-852-3674
B LANGLEY EMP 150	ENG 5	
ADV PG	248	

WALL-ABLE MFG CORP	1800	
N CLYBOURN AVE CHICAGO		
IL	60614 TWX 312-288	312-440-1000
R FIGUEROA EMP 160	ENG 5	

IL	A L & W Sales Prospect Hts	312-541-9080
IN	D M Assoc Indpls	317-885-0451
MA	Carl Morris & Assoc Norwell	617-659-2968
NY	L J Valle Dobbs Ferry	914-693-5072
FR	MSM Ltd Waterloo ON	519-885-0451

WALLACE & TIERNAN DIV	PENNWALT	
CORP 25 MAIN ST BELLEVILLE		
NJ	07109 TWX 219431	201-759-8000
P GETMAN EMP 1100	ENG 150 OVER \$10,000K	

CA	Wallace & Tiernan Diamond Bar	714-861-1006
CA	Wallace & Tiernan Concord	415-676-2733
FL	Wallace & Tiernan Jacksonville	904-743-4955
GA	Wallace & Tiernan Atlanta	404-325-1320
IL	Wallace & Tiernan Oak Brook	312-620-8820
IN	Wallace & Tiernan Indpls	317-849-3338
KS	Wallace & Tiernan Shawnee	
	Mission	913-384-3933
MI	Wallace & Tiernan Livonia	313-478-1890
MN	Wallace & Tiernan Plymouth	612-553-1116
OH	Wallace & Tiernan Columbus	614-895-0911
OR	Wallace & Tiernan Beaverton	503-643-4233
PA	Wallace & Tiernan Wayne	215-687-4930
TX	Wallace & Tiernan Dallas	214-631-3680
WA	Wallace & Tiernan Bellevue	206-455-1298
WI	Wallace & Tiernan Madison	608-274-5358

FR	Wallace & Tiernan Ltd Scarborough	
	Ont	416 751-7561

WALL CO A T	55 SERVICE AVE	
WARWICK RI	02886	
TXW	710-382-1535	401-739-0740
R HUNTSMAN EMP 50	ENG 2 \$5,000-\$10,000K	

WALLER CORP	7808 VIRGINIA	
RD BOX 340 CRYSTAL LAKE		
IL	60014	815-459-6510
W SHROEDER EMP 8	ENG 2 \$1,000-\$2,500K	

WALL INDUSTRIES INC	2 FRANKLIN	
ST LAWRENCE MA	01840	617-688-1287
D AMATO EMP 50	ENG 5 \$1,000-\$2,500K	

WALL-LENK CORP	BOX 3349 KINSTON	
NC	28501	919-527-4186
D DAWSON EMP 65	ENG 2	
CA	Kendall Mktg Corp Laguna Hills	714-581-9951
CO	SOS Mktg Aurora	303-366-7667
FL	Southern Selling Svcs Orange Pk	904-269-2371
GA	Advance Equip Inc	
	Stone Mountain	404-289-6100
IN	R & D Electronics Noblesville	317-849-2026
MA	May Assoc Rochester	617-885-4370
MI	A P Assoc Brighton	313-229-6550
MN	Norton & Assoc Bloomington	612-881-6226
NC	South States Mktg Raleigh	919-872-0600

WAMCO INC	11555-A COLEY	
RIVER CIR FOUNTAIN VALLEY		
CA	92708 TWX 678-459	714-545-5560
S SHERMAN EMP 12	ENG 1 \$5,000-\$10,000K	
ADV PG	223, 238	

AZ	Chapman & Assoc Chandler	602-899-9531
CA	Cronin & Assoc Laguna Hills	714-951-5630
CA	F & F Assoc Cupertino	408-446-2349
FL	Jerry Williams Inc Satellite Bch	305-773-6744
FL	Barrett Assoc Miami	305-681-4957
IL	Utronix Sales Inc Elmhurst	312-834-1100
IN	Schilling Assoc South Bend	219-282-4570
KS	S W Wollard Co Parker	913-898-6552
MD	Hodgins Assoc Glen Arm	301-592-7047
MO	Abrams & Assoc St Louis	314-569-0447
NJ	Metro Tech Sales Harrington Pk	201-768-8495
NY	Richard McGrath Inc Massapequa	516-798-0400
TX	Control Components Dallas	214-458-8877
WA	Rep-West Seattle	206-283-8351
FR	R & D Assoc Don Mills ON	416-444-0959

WANDEL & GOLTERMANN INC		
1030 SWABIA CT RESEARCH		
TRIANGLE PK NC	27709	
TXW	810-621-0002	919-544-8450
R HANDEHRAH EMP 180	ENG 18 OVER \$10,000K	
CA	Wandel & Golttermann Anaheim	714-447-0905
CA	Wandel & Golttermann Santa Clara	408-933-7622
CO	Wandel & Golttermann Lakewood	303-232-1946
CO	Wandel & Golttermann Livingston	201-994-0854
GA	Wandel & Golttermann Tucker	404-493-8818
IL	Wandel & Golttermann Willowbrook	312-655-9242
TX	Wandel & Golttermann Richardson	214-231-8923
VA	Wandel & Golttermann Alexandria	703-998-8588

WARD LEONARD ELECTRIC CO		
31 SOUTH ST MT VERNON		
NY	10550 TWX 710-562-0144	914-664-1000
G PLATENYK EMP 350	ENG 10 OVER \$10,000K	

WARNER ELECTRIC BRAKE & CLUTCH CO		
449 GARDNER ST SOUTH BELOIT		
IL 61080 TWX 210-189.....	815-389-3771	
M TODD EMP 1000 ENG 50 OVER \$10,000K		
NH Cohen Machy Co Manchester.....	603-624-4324	

OR Power Transmission Prods
Portland.....503-227-1271

PA Transmission Engrg Co Fort
Washington.....215-643-2400

RI Machine Parts Corp Providence.....401-274-4333

SC B L Montague Co Greenville.....803-242-6221

SD Industrial Supply Co Sioux Falls.....605-336-3471

TN RCH Electric Co Jackson.....901-424-2300

TX Motion Industries Dallas.....214-351-2211

UT Power Transmission Products SLC.....801-972-5771

VT Bearings Specialty Co Williston.....802-655-2222

VA Industrial Supply Lynchburg.....804-845-8041

WA Washington Belt Everett.....206-259-3111

WI A-C Supply Co Milwaukee.....414-342-5870

FR Bearings & Transmission
Co Playa Ponce PR.....809-842-6378

WARREN COMPONENTS CORP
S IRVINE ST WARREN PA 16365.....814-723-6200

M SEARS EMP 110 ENG 4 \$1,000-\$2,500K

AZ Wadsworth/Bryant Phoenix.....602-275-7366

CA Wadsworth-Pacific Hacienda Hts.....213-330-5592

CA Wadsworth-Pacific Atherton.....415-321-3619

NY Wadsworth Mfg Assoc Liverpool.....315-652-2865

WARRICK CONTROLS INC BOX 1128
BERKLEY MI 48072.....313-545-2512

F BENTLEY EMP 60 ENG 5

DISTRIBUTORS

CA Calpacific Equip Co Berkeley.....415-527-6728

CA Gulp L Warden & Sons Cerritos.....213-926-6682

CO Robt I Warden & Co Arvada.....303-420-0821

IL Kelburn Engrg Co Chicago.....312-775-8383

MA Bordewick Eng Sales Norwell.....617-659-4915

MO Hughes Machy Co KC.....816-931-2601

NY McIntosh Equip Co New York.....212-349-3288

NC Systems Service Corp Charlotte.....704-377-3407

OH Jay Indus Sales Cleveland.....216-831-9393

OK Geo B Allan & Co Tulsa.....918-663-8683

PA Process Engrg Co Pittsburgh.....412-561-5050

TX Geo B Allan & Co Farmers Branch.....214-620-7655

UT North Monsen Co SLC.....801-322-1343

WARSAW COIL CO INC BOX 1057
WARSAW IN 46580.....219-267-6041

T JOYNER EMP 100 ENG 2 \$2,500-\$5,000K

WATERS MFG INC LONGFELLOW CTR
WAYLAND MA 01778.....617-358-2777

B CLAYTON EMP 125 ENG 14 \$2,500-\$5,000K

WATKINS-JOHNSON CO 3333
HILLVIEW AVE PALO ALTO
CA 94304 TWX 910-373-1253.....415-493-4141

B HOGLUND EMP 3000 ENG 350 OVER \$10,000K

CA Watkins-Johnson Palo Alto.....415-493-4141

CA Watkins-Johnson El Segundo.....213-640-1980

FL Watkins-Johnson Ft Walton Bch.....904-863-4191

GA Watkins-Johnson Atlanta.....404-458-9907

IL Watkins-Johnson Palatine.....312-991-0291

MD Watkins-Johnson Gaithersburg.....301-948-7550

MA Watkins-Johnson Lexington.....617-861-1580

TX Watkins-Johnson Dallas.....214-234-5396

WATLOW ELECTRIC 1241 BUNDY BLVD
WINONA MN 55987.....507-454-5300

T WISEMAN EMP 250 ENG 11

CA R McGovern Westminster.....714-891-3777

CA A Merendino Los Gatos.....408-395-1997

GA G Meyer Atlanta.....404-458-2068

IL Jim Priest & Assoc Des Plaines.....312-298-1365

KS F Brown Lenexa.....913-967-6889

MD S Collins Baltimore.....301-823-7437

MA Electrical Components Natick.....617-655-2225

MI D Martignon Rochester.....313-651-0250

MN Holmbeck/Knapton/Schneiberg
Burnsville.....612-431-5700

MO S Siracusa St Louis.....314-878-4600

NJ Magee Ft Lee.....201-461-4484

NY D McKie Lockport.....716-433-6662

NC J Madel Winston Salem.....919-785-7101

OK Hall/Hilton Medina.....216-723-1502

OH T Shaw Tulsa.....918-455-1263

GA G Baker Furlong.....215-345-8130

TX Bohnenkamp Plano.....214-422-4988

WA J Bilbro Seattle.....206-546-6817

WATSON INDUSTRIES INC 3041
MELBY RD EAU CLAIRE WI 54703.....715-839-0628

J WHITING EMP 9 ENG 4

WAUGH CONTROLS CORP 9001
FULLBRIGHT AVE CHATSWORTH
CA 91311 TWX 69-6171.....818-998-8281

D DREWS EMP 100 ENG 8 \$5,000-\$10,000K

AL Horton Instruments Mobile.....205-476-6808

AK Arctic Technology Anchorage.....907-277-6418

AZ Southwest Controls Phoenix.....602-267-1171

CA Warren H Davis Co South Pasadena.....213-682-1166

CO McCamey & Assoc Denver.....303-455-2645

IL Process Sales Addison.....312-543-7400

LA Fogarty Eng & Sales Gretna.....504-393-1376

MA Hitch Controls Belmont.....617-489-0851

NJ Techline Inc Springfield.....204-677-2670

NY Angus Instruments Buffalo.....716-634-0640

OH Automatic Controls Cleveland.....216-631-0333

OK Delcon Inc Tulsa.....918-622-6380

TX Adaptive Controls Houston.....713-995-9791

UT Rust Inst & Controls S L C.....801-487-5958

WA Barrett Equip Co Seattle.....206-522-8325

WV Process Inst & Equip Co
Charleston.....304-344-2337

WI Jensen-Reynolds Corp Milwaukee.....414-442-2200

FR Westech Ind Ltd Calgary AB.....403-252-8803

WAVELINE INC BOX 718 WEST
CALDWELL NJ 07006
TWX 710-734-4324.....201-226-9100

EMP 96 ENG 6 \$5,000-\$10,000K

AZ Territorial Mktg Scottsdale.....602-994-8665

CA Midwin & Oilfin Inc LA.....818-996-9043

CA Pacific Tech Mktg Mt View.....415-969-3010

FL Beacon Elec Assoc Melbourne.....305-724-8010

GA Beacon Elec Assoc Atlanta.....404-256-9640

KY G W Thelen Co Ft Mitchell.....606-341-8181

MD Hodgins Assoc Gen Arm.....301-592-7047

MA O'Sullivan & Murphy Needham Hts.....617-749-8680

MO H Abrams & Assoc St Louis.....314-569-0447

NY Spectrum Sales Hartsdale.....914-997-1166

NY Robtrn Skaneateles.....315-685-5731

PA Wm Assoc Ambler.....215-643-4119

TX N & W Sales Arlington.....817-461-4443

FR John Herring & Co Ltd Aurora ON.....416-727-1345

FR Sylvan Ginsbury Oradell NJ.....201-261-3200

WAVETEK INDIANA INC 5808
CHURCHMAN BEECH GROVE
IN 46107 TWX 310-687-6029.....317-787-3332

W GOLDER EMP 600 ENG 45 OVER \$10,000K

WAVETEK PACIFIC MEASUREMENTS INC
488 TASMAN DR SUNNYVALE
CA 94089 TWX 910-339-9273.....408-734-5780

J ROGERS EMP 100 ENG 9

AZ Barnhill Assoc Scottsdale.....947-7841

CA Ward/Davis Assoc Redondo Bch.....643-6977

CA Ward/Davis Assoc Santa Clara.....245-3700

CO Barnhill Assoc Englewood.....779-3600

CT Pat Jenks Assoc Walingford.....265-9939

FL W A Brown Instruments Orlando.....425-5505

IL Dytec/Central Arlington Hts.....394-3380

IN Dytec/Central Indpls.....247-1316

MA Pat Jenks Assoc Woburn.....938-0488

MI WKM Assoc Madison Hts.....588-2300

MO Dytec/South Maryland Hts.....569-2990

NM Barnhill Assoc Albuquerque.....299-7658

NY RTI Great Neck.....829-3770

NY Naco Elctns Corp N Syracuse.....699-2651

OH WKM Assoc Dayton.....434-7500

PA Eastern Instrumentation Bensalem.....245-6660

TX Data Mktg Assoc Dallas.....661-3000

VA Creative Mktg Assoc McLean.....442-9100

WAVETEK SAN DIEGO INC BOX 85265
SAN DIEGO CA 92138
TWX 910-335-2007.....619-279-2200

S LEWIS EMP 350 ENG 30

WAYNE KERR INC 600 W CUMMINGS
PARK WOBURN MA 01801
TWX 951702.....617-938-8390

M KARR EMP 300 ENG 30 OVER \$10,000K

AL W A Brown Inst Huntsville.....205-883-8660

AZ Scientific Devices Phoenix.....602-957-0401

CA Scientific Devices Huntington
Bch.....714-840-3501

CA Scientific Devices San Diego.....619-268-9635

CA Scientific Devices San Jose.....408-554-0455

CO Scientific Devices Broomfield.....303-469-5145

FL W A Brown Inst Orlando.....305-425-9988

FL W A Brown Inst Ft Lauderdale.....305-776-4800

FL W A Brown Inst Melbourne.....305-723-0766

FL W A Brown Inst Tampa.....813-963-7735

GA W A Brown Inst Norcross.....404-441-2980

IL Berndt Assoc Chicago.....312-283-0713

IN Berndt Assoc Carmel.....317-844-0114

IN TMS Indianapolis.....317-845-9626

IN TMS Kettering.....315-252-5567

MA Scheinefin Assoc Reading.....617-944-2304

MN Berndt Assoc Mnpls.....212-546-2021

NJ Ricai Assoc Ridgefield.....201-945-5250

NJ Sci-Rep Pennsauken.....609-662-5222

NJ Stern & Stout Assoc Cinnaminson.....609-829-2289

NM Scientific Devices Albuquerque.....505-293-3494

NY Scientific Devices Rochester.....716-334-2445

NC W A Brown Inst Durham.....919-479-5200

OH TMS Westlake.....216-327-3527

TN W A Brown Inst Knoxville.....615-966-4317

UT Scientific Devices West
Valley City.....801-966-0105

VA Scientific Assoc Fairfax.....703-385-0600

VA Scientific Devices Redmond.....703-385-0600

WI Berndt Assoc Milwaukee.....414-545-8400

FR Webster Inst Ltd Mississauga ON.....416-625-0600

DISTRIBUTORS

CA EIL Los Angeles.....213-685-7020

CA Shafer Engineering Arcadia.....818-795-5000

CA RAG Electronics Canoga Pk.....818-998-6500

CA EIL Santa Clara.....408-727-0396

CO EIL Denver.....303-534-4160

CT EIL Middletown.....203-346-6646

FL EIL Louisville.....502-454-3420

IN EIL Bridgeview.....312-430-2292

IL EIL Indpls.....317-545-1373

KY EIL Louisville.....502-454-3420

MD EIL Sparks.....301-771-4800

MA EIL Burlington.....617-272-9450

MA Hayes Instrumentis Billerica.....617-663-4800

NJ EIL Pennsauken.....609-488-0474

NJ Technilease Ridgefield.....201-945-5250

NY EIL Hauppauge.....516-231-6333

OH EIL Dayton.....513-435-2134

PA EIL Pittsburgh.....412-731-5230

TX EIL Dallas.....214-931-1236

TX EIL Houston.....713-271-3100

TX Tucker Electronics Garland.....800-527-4642

VA EIL Springfield.....703-569-2611

VA EIL Virginia Bch.....804-499-3748

WA EIL Seattle.....206-575-1888

FR EIL Mississauga ON.....416-624-6660

WAYNE TRANSFORMER CO INC
99 HAZEL ST PATERSON
NJ 07503.....201-278-7674

EMP 12 ENG 2 \$250-\$500K

WEBB CO JERVIS B WEBB DRIVE
FARMINGTON HILLS MI 48018
TWX 211892.....313-553-1220

R RICHARDSON EMP 2500 ENG 500 OVER
\$10,000K

CA J B Webb of Cal LA.....213-588-8271

GA J B Webb of Ga Marietta.....404-426-3900

IL J B Webb Co Roselle.....213-980-2600

MA J B Webb Co Cohasset.....617-383-9400

MI J B Webb Co Grand Blanc.....313-694-4173

NC J B Webb Co Matthews.....704-847-6947

OH J B Webb Co Cincinnati.....513-489-2007

PA J B Webb Co Ft Washington.....215-628-4400

TX J B Webb Co Richardson.....214-231-8227

FR J B Webb Co of Can Hamilton ON.....416-547-0411

FR J B Webb Co of Can Westmount PQ.....514-933-1624

WEBBER MFG CO INC BOX 19449
INDIANAPOLIS IN 46219
TWX 312711.....317-357-8681

C FADALE EMP 40 ENG 4

WEBER TECHNICAL PRODUCTS
10 INDUSTRIAL WAY BOX 648
AMESBURY MA 01913.....617-388-5662

D BISHOP EMP 35 ENG 2 \$2,500-\$5,000K

WECO ELECTRICAL CONNECTORS INC
RTE 11 MOORENS NJ 12958.....518-298-4810

H KAMMANN EMP 45 ENG 1 \$1,000-\$2,500K

CO Protronics Group Englewood.....303-781-6050

FL HAI Electronics Coral Springs.....305-752-7520

MI Engineered Components Brooklyn.....517-592-3236

OH Engineered Components Cincinnati.....513-474-2949

OR SPS Electronics Portland.....503-297-6919

PA Beil & Whitaker Harrisburg.....717-564-6900

WA SPS Electronics Redmond.....206-323-4140

WI Key Enterprise Elm Grove.....414-784-3390

DISTRIBUTORS

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CA ISI Mktg Fullerton.....714-773-0411

CT Glynn Elect Yalesville.....203-265-2498

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MA Glynn Elect Middleboro.....617-947-4262

NH Glynn Elect Salem.....603-893-8313

NJ Kon-Tac Inc South River.....201-254-5100

OR H D Campbell Co Lake Oswego.....503-227-3800

WA H D Campbell Co Seattle.....206-433-1900

WEED INSTRUMENT CO INC BOX 300
ROUND ROCK TX 78680
TWX 77-6492.....512-255-7043

D PHILLIPS EMP 110 ENG 10 \$2,500-\$5,000K

WEHMAN TEST-SYSTEMS INC
BOX 215 MEDFORD IND PK
MEDFORD NJ 08055.....609-953-1784

B SMITH EMP 100 ENG 2 \$1,000-\$2,500K

WEI CORP 1405 S VILLAGE WAY
SANTA ANA CA 92705
TWX 910-595-1709.....714-834-9333

R GRIGGS EMP 50 ENG 2 \$1,000-\$2,500K

AZ Delta Elec Sales Phoenix.....602-252-4222

CA Ward Elec Pkg Sales Milpitas.....408-945-0420

FL Jack Krutek & Assoc Lighthouse
Pt.....305-941-6544

IN STB & Assoc Carmel.....317-844-9227

MA Enco Tronics Chelmsford.....617-256-4207

MI DEM Electronics Warren.....313-575-9444

PA Koebert Assoc Glenside.....215-887-2310

UT Summit Marketing SLC.....801-488-3606

WI Repl & Assoc Colgate.....414-628-4016

WEIDMULLER TERMINATIONS INC
821 SOUTHLAKE BLVD RICHMOND
VA 23236 TWX 828376.....804-794-2877

J FISHER EMP 39 ENG 17

CA Weidmuller Costa Mesa.....714-751-1547

CA Weidmuller Pleasant Hill.....415-937-5417

CO Weidmuller Denver.....303-755-6365

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GA Weidmuller Marietta.....404-924-2829

IL Weidmuller Crete.....312-672-4460

MA Weidmuller Revere.....617-298-2122

MN Weidmuller Spring Park.....612-471-8270

NC Weidmuller Greensboro.....919-288-3680

OH Weidmuller Mentor.....313-267-2211

PA Weidmuller Feasterville.....215-355-7847

VA Weidmuller Richmond.....804-270-1641

WA Weidmuller Missouri City.....713-437-2011

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Hawthorne.....213-970-0997

CA Lo Dan Belmont.....415-922-4600

IL Lo Dan Elect Arlington Hts.....212-398-5311

LA Menard Elect Baton Rouge.....504-355-0323

MA Glynn Elect Middleboro.....617-947-4262

MO Olive Elect St Louis.....314-426-4500

NY Simcona Elect Rochester.....716-328-3230

VA Virginia Radio Sply
Charlottesville.....804-296-4184

WEINSCHTEL ENGINEERING CO INC
1 WEINSCHTEL LA GAITHERSBURG
MD 20877 TWX 440702.....301-948-3434

R BASTIEN EMP 300 ENG 20 OVER \$10,000K

AZ Sierra Tech Group Tempe.....602-894-2335

CA Ward/Davis Assoc Redondo Bch.....213-643-6977

GA Beacon Elctns Assoc Atlanta.....404-256-9640

IL Dytec/Central Arlington Hts.....312-394-3380

MA R J Sickles Assoc Lexington.....617-862-5100

MN Dytec North St Paul.....612-645-5816

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 NJ Technical Mktg Assoc Teterboro 201-393-9330
 NY Naco Electronics Corp
 Skaneateles 315-685-5731
 PA Eastern Inst of Phila Bensalem 215-245-6660
 TX Scientific Devices SW Richardson 214-231-8106
 VA Creative Mktg Assoc McLean 703-442-9100

WEISS-AUG CO INC BOX 520
 MERRY LA EAST HANOVER
 NJ 07936 TWX 642-592 201-887-7600
 J BICKEL EMP 150 ENG 6 OVER \$10,000K
 CO D Mayo Boulder 303-499-2155
 GA T Harris Alphaetta 404-475-2717
 NY W Brophy Victor 716-924-4790
 TN N Harris Brentwood 615-373-0437
 TX S Karnavas Irving 214-721-1177
 FR F Hughes St Laurent PQ 514-747-1810

WELCH ALLYN INC INDUSTRIAL DIV
 JORDAN RD BOX 187 SKANEATELES
 FALLS NY 13153-0187 TWX 325435 315-685-8395
 P DIMARIA EMP 900 ENG 25 OVER \$10,000K

AL Remco Huntsville 205-533-3763
 AZ O'Donnell Assoc Phoenix 602-944-9542
 CA O'Donnell Assoc San Jose 408-263-6500
 CA O'Donnell Assoc Torrance 213-539-9664
 CO High Plains Mktg Englewood 303-792-2020
 FL Cherry Assoc Tequesta 305-746-4591
 GA Remco Atlanta 404-447-6937
 IL Sector Engrg Sales Elmhurst 312-530-7850
 IN Sector Engrg Sales Indpls 317-842-1120
 IA Beams Co Des Moines 515-255-1148
 KY F A Dorsey & Assoc Louisville 502-426-3540
 MD Ritter Assoc Westminster 301-876-3373
 MA Poulin Assoc Sudbury 617-443-7333
 MI Carter McCormick & Peirce
 Farmington Hills 313-477-7700
 MN John J Exon Co St Paul 612-636-5533
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 NJ Neville & Vespo Spring Lake 201-974-1520
 NM O'Donnell Assoc Albuquerque 505-265-9312
 NY Murcan Sales Syracuse 315-437-0734
 NY Neville & Vespo Thompson Ridge 914-457-9209
 NC Remco Raleigh 919-847-5079
 OH Carter McCormick & Pierce
 Englewood 513-836-0951
 OK ION Assoc Tulsa 918-664-0186
 OR Temco Northwest Hillsboro 503-649-8375
 PA Ritter Assoc Abington 215-884-6849
 TX ION Assoc Houston 713-977-4354
 WA Temco Northwest Bothell 206-821-5434
 WI Sector Engrg Sales Milwaukee 414-352-8280
 FR Electrodesign Ltd Lachine PQ 514-636-4838
 FR Electrodesign Ltd Nepean ON 613-727-5220

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 CA Input Automation Co Torrance 213-539-3598
 FL Compsee Inc Melbourne 305-724-4321
 MD Dataflow Technologies Towson 301-296-2632
 NC Compsee Inc Mt Gilead 919-439-6117
 OH Barcode Data Sys Columbus 614-846-5111
 VA Advanced Data Sys of VA Richmond 804-261-5575

WELLS ELECTRONICS INC 1701
 S MAIN ST SOUTH BEND IN 46613
 TWX 25-8325 219-287-5941
 K SCOPE EMP 200 ENG 5 OVER \$10,000K
 AZ Luscombe Engineering Scottsdale 602-949-9333
 CA Luscombe Engrg Pasadena 213-684-2000
 CA Western Indus Network San Jose 408-559-8118
 CO Luscombe Engineering Boulder 303-772-3342
 IL Howard Benjamin Assoc Northbrook 312-272-2900
 IN France Enterprises Greenfield 317-462-6098
 KS Repronics Olathe 314-576-9816
 MA Com/Pak Hudson 617-568-0331
 MN Boerger & Assoc Mnpls 612-560-3435
 MO Repronics St Louis 314-576-9816
 NJ Cambridge Allen & Assoc
 Berkeley Hts 201-464-0203
 OR El Tech Tigard 503-684-3458
 TX Aid Electronics Irving 214-790-4761
 WA El Tech Bellevue 206-643-4330
 WI Repl and Assoc Coigate 414-628-4016

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 CA Waltronc Sales Santa Clara 408-727-1200
 CA A to Z Elect Anaheim 714-634-3620
 CA Mock III San Diego 714-560-0515
 CO Cypress Electronics Wheat Ridge 303-431-2622
 CT Utronics Stratford 203-378-4201
 FL Jack Krutek & Assoc Lighthouse
 Pt 305-941-6544
 FL Electronic Precepts of
 FL Clearwater 813-530-9781
 GA L & D Inc Atlanta 404-395-7079
 GA Prehler Elect Atlanta 404-447-5540
 IL Semiconductor Specialists
 Elmhurst 312-279-1000
 IL Prehler Electronics Chicago 312-384-6100
 IN Graham Electronics Indpls 317-634-8202
 MD MS Elect Gaitersburg 301-921-0200
 MA Add Elect Holliston 617-429-7945

MI LSI Marketing Farmington Hills 313-474-4000
 MI Michigan Mktg & Sls Brighton 313-229-6218
 MN Semiconductor Spec Mnpls 612-854-8841
 MN Cassidy Electronics Eden Prairie 612-944-0100
 MO Semiconductor Spec KC 816-452-3900
 NH Astrum Elect Hampstead 603-329-5656
 NJ Mid-Atlantic Elect Bellmawr 609-931-5303
 NJ RSR Elect Rahway 201-381-8777
 NY Add Elect E Syracuse 315-437-0300
 NY Pride Electronics Farmingdale 516-293-4020
 NY KRP Electronics Freeport 516-623-3346
 NC Kirkman Elect Winston-Salem 919-722-9131
 NC Electronics Mktg Corp Charlotte 704-394-6195
 NC L & D Inc Greensboro 919-292-3201
 OH Electronics Mktg Corp Columbus 614-299-4161
 OR Moore Electronics Tigard 503-684-3100
 PA Semiconductor Spec Pittsburgh 412-963-7241
 TN L & D Inc Knoxville 615-573-6511
 TX Kent Electronics Houston 713-780-7770
 WA Almac Elect Bellevue 206-643-9992
 WI Marsh Electronics Milwaukee 414-475-6000
 WI Badger Electronics Parts Racine 414-637-1256

WELTEK INTL INC 1836 S
 FRANKLIN ST SOUTH BEND
 IN 46613 TWX 233131 219-232-5400
 C ROUTSON EMP 20 ENG 2 \$500-\$1,000K
 CA R Schreuders San Jose 408-998-8855
 CA J O'Enning Saratoga 408-741-1365
 IN D King Noblesville 317-842-1035
 MI M Percival Royal Oak 408-741-1365
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 W H Wilson 1710 Chadwick Dr Richmond 509-922-1762
 WA C Neal Spokane

WENESCO INC 6421 N RAVENWOOD
 CHICAGO IL 60626 312-973-4430
 B LOWE EMP 40 ENG 3 \$500-\$1,000K

WENZEL ASSOC INC 11124
 JOLLYVILLE RD AUSTIN TX 78759
 TWX 910-997-4554 512-345-2703
 L RONCHETTI EMP 6 ENG 3
 CA Crown Electronics No Hollywood 213-877-3550
 CA ESCO Sunnyvale 408-745-1410
 NY RF Electronic Sales Co Melville 516-420-8890
 TX TALO Products Dallas 214-644-6010
 VA M D Assoc Arlington 703-486-5750

WESCO ELECTRICAL CO INC
 201 MUNSON ST GREENFIELD
 MA 01301 413-774-4358
 B SHAW EMP 175 ENG 2 \$2,500-\$5,000K
 ADV PG 71

CA Electro-Mech Sales Co Costa Mesa 714-642-2390
 CO Morbak Marketing Loveland 303-669-8900
 FL EIR Inc Maitland 305-660-9600
 IN John H Weaver Co Columbus 812-372-3625
 MD Naudain Assoc Woodbine 301-442-2270
 MA Bengal Assoc Randolph 617-961-4120
 MI DEM Electronic Sales Warren 313-575-9444
 MN Furber-Smith Assoc Mnpls 612-881-3620
 NV Unitronics Mktg Inc Reno 702-825-1978
 NJ Livera Polk Assoc Madison 201-377-3220
 NY Livera Polk Assoc Glenhead 516-759-9300
 NY Foster & Wager Inc Fayetteville 315-637-5427
 NC Leigh Sales Raleigh 919-872-1484
 OH W J Brauer & Assoc Wickliffe 216-943-0601
 OR L-D Electronics Beaverton 503-649-6177
 PA PWC Mfr. Reps. Glenside 215-576-0110
 WA L-D Electronics Snohomish 206-568-0511
 FR Tech-Rep St Laurent PQ 514-337-6046

WESCORP DIV DAL INDUS INC
 144 S WHISMAN RD MT VIEW
 CA 94041 TWX 345507 415-969-7717
 EMP 25 ENG 3 \$1,000-\$2,500K

CA Westates Sales Bell 213-264-7114
 CO Holladay & Assoc Littleton 303-773-6627
 IL Protective Pkg Chicago 312-274-1973
 MN Dynamic Pkg Minneapolis 612-424-7865
 NJ Brady Co No Plainfield 201-753-7988
 NM Alexander Ent El Paso TX 915-591-3142
 TX Del Tech & Assoc Dallas 214-661-0132
 WA Carr & Assoc Federal Way 206-839-6334

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 CA Com-Kyl Sunnyvale 408-734-9660
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 FL Wraps Inc Ormand 904-441-2012
 MA Kaufman Co Cambridge 617-491-5500
 NJ Janel Inc Stirling 201-647-5600
 WA Western Packaging Seattle 206-575-3220

WES-GARDE COMPONENTS GROUP INC
 194 ELLIOTT ST HARTFORD
 CT 06114 203-525-6907
 J LEMANSKI EMP 60

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 CA Pacific Switch Controls Van Nuys 213-873-4802
 CT Atlantic Switch Controls
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 GA Switch Controls Lakeland 813-644-7564
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NH Atlantic Switch Controls Nashua 603-880-1971
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 TX Texaswitch Dallas 214-357-1768

WESTBERG MFG INC 3400 WESTACH
 WAY SONOMA CA 95476 707-938-2121
 R WESTBERG EMP 25 ENG 4 \$500-\$1,000K

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 ELVIRA RD TUCSON AZ 85706 602-294-2646
 J QUINN

WEST COAST PLASTICS EQUIPMENT INC
 6122 W WASHINGTON BLVD
 CULVER CITY CA 90232 213-870-7733
 J MORICOLI EMP 10 ENG 4 \$2,500-\$5,000K
 AZ Peter Bak Phoenix 602-952-8409

WEST COAST RESEARCH CORP
 BOX 25061 LOS ANGELES
 CA 90025 213-478-8833
 J FOX EMP 21 ENG 12 \$250-\$500K

CT R G Assoc Tolland 203-875-4201
 MN Complete Sales St Paul 612-644-0484
 OH Technical Sales Reps Hudson 216-653-2734

WESTERN DIGITAL CORP 2445
 MCCABE WAY IRVINE CA 92714
 TWX 910 595 1139 714-863-0102
 J PLESO EMP 1928 ENG 162 OVER \$10,000K

DISTRIBUTORS
 CA Western Digital Irvine 714-851-1221
 CA Kierulf Cypress 714-220-6300
 MN Western Digital Bloomington 612-835-1003

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 TECHNOLOGY DIV 14724
 E PROCTOR AVE CITY OF INDUSTRY
 CA 91744 TWX 910-584-4856 818-968-6525
 F GREW EMP 1100 ENG 72 OVER \$10,000K

WESTERN GRAPHTEC INC 12
 CHRYSLER ST IRVINE CA 92718 714-770-6010
 A COMEAU-BOWMAN EMP 52 ENG 4 \$5,000-\$10,000K

WESTERN INDICATOR CO DIV
 DUPREE INC BOX 1797 CHINO
 CA 91708-1797 714-597-4887
 J BONDERUP EMP 50 ENG 5 \$1,000-\$2,500K

CA Uni Rep Co San Diego 714-292-9001
 CA Serra Assoc Mt View 415-964-4300
 FL L Meldeaw Merritt Island 305-482-5975
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 MN Vikeland Sales St Paul 612-645-4647
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 NY Uni Rep Inc Rochester 716-454-4741
 WA Neher Seattle 206-283-8351

WESTERN MICROWAVE 1271
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 CA 94089 TWX 910-339-9219 408-734-1631
 J LAUTERMILCH EMP 200 ENG 20 OVER \$10,000K

AZ Martech Assoc Tempe 602-968-4944
 CA Dura Ecltn Sales Cupertino 408-255-2084
 CA Interstate Mktg Assoc Woodland
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FL EDSI Melbourne 305-568-4944
 IL Probe Electronics Park Ridge 312-696-2828
 IN J & B Engrg Sales Ft Wayne 219-483-2813
 KS Abrams & Assoc Parker 913-898-6552
 MD C L Malinow & Co Randallstown 301-922-2092
 MO Abrams & Assoc St Louis 314-569-0447
 NH Calahan & Tremblay Inc
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 NY US Technical Mktg Kings Park 516-724-4250
 TX Bradenco Corp Dallas 214-243-7261
 WA SJI Corp Seattle 206-763-8981

WESTINGHOUSE ELEC CORP CONTROL
 DIV BOX 819 OLDSMAR FL 33557
 TWX 80-3784 813-855-4621
 M SHRIVASTAVA EMP 125 ENG 11

WESTINGHOUSE ELEC CORP IND
 & GOVT TUBE DIV WESTINGHOUSE
 CIRCLE HORSEHEADS NY 14845
 TWX 5102 5215 88 607-796-3211
 W POCHAL EMP 700 ENG 200 OVER \$10,000K
 CA Westinghouse Santa Clara 408-735-2217
 CO Westinghouse Lakewood 303-937-4273
 PA Westinghouse Pittsburgh 412-255-1718

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 AZ Wesco Phoenix 602-257-1532
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MA	Wesco Boston	617-426-4964
MI	Wesco Detroit	313-399-3500
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MO	Wesco Kansas City	816-471-1180
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NE	Wesco Omaha	402-345-8700
NH	Wesco Manchester	603-625-5456
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NM	Wesco Albuquerque	505-247-3646
NY	Wesco Buffalo	716-849-2222
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OH	Wesco Cleveland	216-391-1200
OR	Wesco Portland	503-221-4400
PA	Westinghouse Elect Sply Pittsburgh	412-255-4290
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SC	Wesco Greenville	803-233-6201
TN	Wesco Memphis	901-458-7591
TX	Wesco Dallas	214-742-2401
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VT	Wesco S Burlington	802-864-9885
VA	Wesco Richmond	804-353-7353
WA	Wesco Seattle	206-292-4141
WV	Westinghouse Elect Sply Wheeling	304-232-5120
WI	Wesco Milwaukee	414-264-6400

WESTINGHOUSE ELEC CORP INDUSTRIAL EQUIP DIV BOX 300 SYKESVILLE MD 21784	301-795-2800
R MILLER ENG 25 OVER \$10,00K	

WESTLAKE PLASTICS CO W LENNI RD BOX 127 LENNI PA 19052 TWX 83-5406	215-459-1000
W O'DONNELL ENG 120 ENG 3 \$5,000-\$10,00K	

WESTMORELAND PLASTICS CO DIV UMEC CORP AVE B EXT LATROBE PA 15650	412-539-1612
R DOWLER EMP 100 ENG 6 \$5,000-\$10,00K	
CA Hartfield Kennan Freytag L A	213-225-1318
IL Hickey-Cuccaro Co Crystal Lake	815-459-1752
MO C Lauber Kirkwood	314-966-4735
NJ Harvey Assoc Ringwood	201-962-7871
OH Sullivan Assoc Columbus	614-486-7900
PA Adams & Adams Allentown	215-797-6772
TN Bert Lucas Assoc Hendersonville	615-824-5818
VA T Felger Charlottesville	804-973-4296
FR Harvey Waldmen Co Ltd Toronto ON	416-787-0133

WESTPORT DEV & MFG CO INC 34 PRINDLE HILL RD ORANGE CT 06477 TWX 710-462-0448	203-795-0871
G MONAHAN EMP 47	

WESTWARD TECHNOLOGY INC 63 GREAT RD MAYNARD MA 01754 TWX 951995	617-897-1700
L GENNARO EMP 500 OVER \$10,00K	

WHITE S S IND PRODS PENNWALT CORP 151 OLD NEW BRUNSWICK RD PISCATAWAY NJ 08854 TWX 833 477	201-752-8300
A PALLAN EMP 235	
CA Secana Co Glendale	818-240-3048
CA Secana Corp Belmont	415-591-5363
IL S S White Ind Div Aurora	312-820-1550
MI S S White Ind Prod Farmington	313-553-2222
NY Micrel Assoc Chappaqua	914-238-4961
NC S S White Ind Prod Charlotte	704-527-6226
OH S S White Ind Prod Columbus	614-262-3500
TX S S White Ind Prod Garland	214-840-3176

WHITE TECHNOLOGY INC 4246 E WOOD ST PHOENIX AZ 85040 TWX 910-951-4203	602-437-1520
T ELSBY EMP 250 ENG 15	

WHITMOR WIRE & CABLE CORP 13161 SHERMAN WAY UNIT B NORTH HOLLYWOOD CA 91605 TWX 194-479	818-764-6296
M WEISS EMP 29 ENG 1 \$2,500-\$5,00K	

DISTRIBUTORS

CA Wirenetics Co Sunnyvale	408-745-6673
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WHITSO INC 9330 BYRON ST SCHILLER PARK IL 60176	312-678-5200
A PALOIAN EMP 170 ENG 7 \$5,000-\$10,00K	
CA C W Saxon & Assoc El Segundo	EA 2-2111
NY Friedman-Smith Elctn Sls Mt Vernon	MO 4-4866
PA Samuel A Jeffries Inc Narberth	MO 4-8500

WHITTAKER CORP TASKER SYS DIV 1785 VOYAGER BOX 8000 SIMI VALLEY CA 93063 TWX 910-494-1214	805-584-8200
J MARLOWE EMP 300 ENG 50 OVER \$10,00K	

WICAT SYSTEMS INC 1875 S STATE OREM UT 84057 TWX 910-971-4027	801-224-6400
D TUTTLE EMP 400 ENG 60 OVER \$10,00K	
CA Wicat Systems Marina Del Ray	213-827-8182
MA Wicat Systems Westwood	617-329-3539
NJ Wicat Systems Paramus	201-967-1980
NY Wicat Systems New York	212-674-9190
TX Wicat Systems Chicago	312-630-0010

VA Wicat Systems Arlington	703-486-5611
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WIDE BAND ENGINEERING CO INC BOX 21652E PHOENIX AZ 85036	602-254-1570
S TICKNOR EMP 7 ENG 1 \$250-\$500K	
MA NEREM 64 Whittier Rd Wakefield	617-245-4426

WIDE RANGE ELECTRONICS CORP 140 SUN VALLEY CIRCLE ST LOUIS MO 63026 TWX 44-2560	314-343-9191
N VOLLE EMP 10 ENG 1 \$250-\$500K ADV PG 152	

WILBRECHT ELECTRONICS INC 240 PLATO BLVD ST PAUL MN 55107 TWX 910-563-3679	612-222-2791
D SAMDAHL EMP 250 ENG 15 \$5,000-\$10,00K	
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CA Electronic Tech Assoc Orange	714-998-9241
CA Kency & Assoc Santa Rosa	707-523-7448
FL Gallagher & Assoc Plantation	305-473-2101
IL Dombrow Co Mt Prospect	312-253-3326
IN Naunas Sales Co Ft Wayne	219-432-4792
MA Sir Assoc Westford	617-692-2500
MN Allied Comp Reps Burnsville	612-435-7876
OH Intech Akron	216-239-2202
WA Quest Marketing Bellevue	206-747-9424

WILCO CORP 6451 SAGUARO CT INDIANAPOLIS IN 46268	317-293-9300
R CARROLL EMP 35 ENG 2 \$500-\$1,00K ADV PGS 101,228	

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CA Inductor Supply Inc Huntington Bch	800-854-1881
CA Inductive Products Garden Grove	800-421-4830

WILCOXON RESEARCH 2096 GAITHER RD ROCKVILLE MD 20850	301-330-8811
W WILCOXON EMP 25 ENG 5 \$1,000-\$2,500K	

JOHN WILEY & SONS INC 605 THIRD AVE NEW YORK NY 10016	212-850-6695
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WILHELM WESTERMANN SPEZIAL ELEKTR BAUELEMENTE AUGUSTA-ANLAGE 56 BOX 2345 MANNHEIM GERMANY 6800 TWX 462237	0621/408012
EMP 1400 ENG 70	
CA TAW Electronics Burbank	213-846-3911
NY Inter-Technical Group Irvington	914-591-8822

WILKINSON CO 31011 AGOURA RD WESTLAKE VILLAGE CA 91361 TWX 698213	818-889-0050
R COOK EMP 25 ENG 2 \$5,000-\$10,00K	
CA Kundlich Assoc Santa Clara	408-554-9545
TX R S Marston Co Richardson	214-235-3577

WILLIAMS GOLD REFINING CO INC PRECIOUS METALS DIV 2978 MAIN ST BUFFALO NY 14214 TWX 91-224	716-837-1000
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CA Weatherman Assoc Santa Ana	
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IL Arthur O Capp Co Gurnee	312-249-5550
MA A & N Assoc Beverly	617-927-7171
NJ McKee Assoc Red Bank	201-842-6682
PA A M Technical Sales Co Broomall	215-356-0574
TX Waddle Sales Co Dallas	214-638-2860
FR W Swanson 1 The Broadway Tolworth Surbiton Surrey GB	

WILLIAMSON CORP 70 DOMINO DR BOX 1270 CONCORD MA 01742 TWX 923343	617-369-9607
W BARRON EMP 40 ENG 9 \$2,500-\$5,00K	

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AZ Fluid Conditioning Phoenix	602-243-5187
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MO Edw W Mooney Co St Louis	314-878-9910
NE Interstate Ind Instr Omaha	402-331-3335
NJ Blake Equip Englewood	201-567-4252
NY Davco Systems Grand Island	716-773-6600
NC Kent Morris Inc Charlotte	704-364-6683
OH PSI Sales Cleveland	216-526-5260
OK Driscoll Automatic Cont Tulsa	918-747-6625
PA Roberts Eng Sales Co Radnor	215-688-6525
TX Ken Dawson Co Dallas	214-241-3843
UT Priz-Co Sandy	801-571-7311
VA Process Specialties Salem	703-345-0466
WA Pacific Inst & Controls Corp Vancouver	206-574-4055
WI Stapelman Corp Glendale	414-352-5777
FR A D Smart Ltd Markham ON	416-474-0550

WILMAR ELECTRONICS INC 2430 AMSLER ST TORRANCE CA 90505 TWX 182417	213-326-6668
Z HEIFETZ EMP 25 ENG 4 \$1,000-\$2,500K	
CA Davis & Gregory Co Emeryville	415-428-9103
PA Technical Inst Sales Doylestown	215-345-4110

WILMINGTON FIBRE SPECIALTY CO BOX 192 NEW CASTLE DE 19720	302-328-7525
W SHIELDS EMP 29 ENG 1 \$1,000-\$2,500K	

WILMORE ELECTRONICS CO INC BOX 1329 HILLSBOROUGH NC 27278	919-732-9351
J HARRIS EMP 45 ENG 7	

WILSON CO H M 11501 CHIMNEY ROCK HOUSTON TX 77035	713-729-1183
H WILSON EMP 3 ENG 1 \$100-\$250K	

WILSON-FIBERFIL INTERNATIONAL BOX 3333 EVANSVILLE IN 47732 TWX 75250P	800-457-3764
D GENTRY	

WILSON LABS INC 2237 N BATAVIA ST ORANGE CA 92665 TWX 4996059	714-998-1980
O OSMUNDSEN EMP 85 ENG 17 \$5,000-\$10,00K	

WILTRON CO 490 JARVIS DR MORGAN HILL CA 95037-2809 TWX 285227	408-778-2000
W BAXTER EMP 700 ENG 100 OVER \$10,00K	

AL Gentry Assoc Huntsville	205-837-0692
AZ Trembly Assoc Tempe	602-967-2058
CA MCH Assoc San Jose	408-246-7330
CA Blair Assoc Anaheim	714-220-1201
CO Trembly Wheatridge	303-421-8900
FL Gentry Assoc Orlando	305-859-7450
GA Gentry Assoc Roswell	404-998-2828
IL Electronic Instr Assoc Park Ridge	312-298-2290
IN Electronic Instr Assoc	317-257-7231
KS EIR Co KC	816-452-7030
LA Gentry Assoc Gretna	504-367-3975
MD EMA Inc Rockville	301-881-5300
MA Wiltron Woburn	617-933-8330
NM Trembly Assoc Albuquerque	505-266-8616
NY Central Assoc Old Bethpage	516-694-3205
NY Ossmann Instr Inc East Syracuse	315-437-7052
NC Gentry Assoc Burlington	919-227-3639
OH EQS Systems Inc Chesterland	216-729-2222
PA EMA Inc Plymouth Mtg	215-828-7400
SC Gentry Assoc Columbia	803-772-6786
TN Gentry Assoc Knoxville	615-584-0281
TX Vector Sales Co Richardson	214-234-4291
UT Trembly Salt Lake	801-486-5292
VA Electronic Marketing Assoc	804-320-8801
WA DelCom Sales Co Seattle	206-248-0090
FR Wiltron Ltd Otttawa ON	613-725-1006

WINATIC CORP 409 COMMERCE RD VESTAL NY 13850	607-729-6318
Z ZAPARYNSKI EMP 200 ENG 2 \$2,500-\$5,00K	
FL B & M Sales Orlando	305-855-1002
MD Imagitron Sales Co Pikesville	301-521-2020
MA RFC Assoc Topsfield	617-887-8545
MO Nevco Inc KC	816-421-1752
NJ Comp-Tech Sales Carlstadt	201-935-5454
NY PRM Sales Kingston	914-331-0872
NY J Bodie Fayetteville	315-637-6350

WINCHESTER SYSTEMS INC 400 WEST CUMMINGS PARK WOBURN MA 01801	617-933-8500
J LEIDER EMP 20 ENG 3 \$2,500-\$5,00K	
Toll Free Number 800-325-3700	

WINCOM CORP 12 HENSHAW ST BOX 2647 WOBURN MA 01888 TWX 710-348-1331	617-935-6212
F GOLDEN EMP 35 ENG 10	
CA Thorson Co Goleta	805-964-8751
CA The Marketing Co San Jose	408-926-0372
FL Cole-tek Assoc Pompano Beach	305-781-8110
MA RF Assoc Topsfield	617-887-9762
PA WM Assoc Ambler	215-643-4119

WINEGARD CO 3000 KIRKWOOD AVE BURLINGTON IA 52601	319-753-0121
J JORDALL EMP 450 ENG 26 OVER \$10,00K	
AR Leo Barker Co Little Rock	501-835-0978
CA D E Hedges Carson	213-639-0474
CA Wm J Purdy Co Burlingame	415-347-7701
CO Rus Heerd Evergreen	303-670-0778
FL Dixie Electronics Lakeland	813-665-1915
GA Cavendish & Assoc Atlanta	404-449-5104
IL J Peterson Crystal Lake	815-459-8294
IN Electronic Repts Indpls	317-894-1414
IA J S Ridge Enfrps Burlington	319-754-8745
KS T Schulte Shawnee Mission	913-268-8387
MA Berberian/Pattner & Assoc North Andover	617-689-0155
MI Central Elctns Sales Co Royal Oak	313-589-2266
MN Select Sales Minneapolis	612-827-3637
NH D Johnson Amhurst	603-673-8479
NJ Stan Axelrod Assoc Englewood	201-871-0600
NY Paston-Hunter Co Syracuse	315-437-2992
NC Winston Elctn Sales Assoc Oxford	919-693-1561
OH Thos Shelby Co Saint Marys	219-394-3377
OR Weeks Assoc Turmwater	206-943-1079
TX Townsend Sales Roanoke	214-344-2479
VA Crown Assoc N Garden	804-293-6373
FR Omnitronix Dorval PQ	514-683-6993

WINLAND ELECTRONICS INC BOX 473 MANKATO MN 56001 TWX 5101006847	507-625-7231
R WILLIAMS EMP 44 ENG 3	

DISTRIBUTORS

AL Birmingham Alarm Supply Birmingham	800-633-4802
AZ Mountain West Alarm Phoenix	602-263-8831
CA Protective Products Cerritos	800-245-2498

FL	Suncoast Dist Winter Pk	305-628-8557
GA	Arrowhead Security Dist Atlanta	404-952-3742
KS	North Supply Industrial Airport	800-255-6515
MA	Ariftech Corp Framingham	617-620-0800
MA	Alarm Devices Sply Woburn	617-933-8430
MI	Alarm Supply Co Livonia	800-521-6100
MN	Alarm Frods Dist Mnpls	800-528-5444
NJ	King Alarm Dist Hackensack	800-526-0162
NY	Alarm Warehouse Lynbrook	800-645-2257
NY	AAA Dist Buffalo	716-856-2261
PA	Triangle Elect Pittsburgh	412-441-9659

WINTEK CORP	1801 SOUTH ST LAFAYETTE IN 47904	
TWX	70-9079	317-742-8428
J WILLIAMS EMP	12 ENG 3 \$1,000-\$2,500K	

WINTRON CO INC	12129 MAGNOLIA ST EL MONTE CA 91732	818-448-3935
R WINSLOW EMP	5 ENG 1 UP TO \$100K	

WIRE CLOTH MANUFACTURERS INC	411 EMERY AVE RADOLPH NJ 07863	201-328-1000
G YACCORINO EMP		
MA	Douglas Sales Co Woburn	617-935-2061

WIRE GRAPHICS INC	95 SHERWOOD AVE FARMINGDALE NY 11735	
TWX	238667	516-293-1525
J DANDREA EMP	43 ENG 6 \$1,000-\$2,500K	
NJ	Wire Graphics Inc 1829 Underwood Bl Delran	609-461-0501

WIREMOLD CO THE	60 WOODLAWN ST WEST HARTFORD CT 06110	
TWX	710-425-6281	203-233-6251
S WALLER EMP	799 ENG 30	

WISE COMPONENTS INC	28 HENRY ST GREENWICH CT 06830	203-531-4880
T BENEDETTO EMP	18 \$2,500-\$5,000K	
ADV PGS	173,207,203,448,466,497	
NJ	Wise Components Inc	201-489-8784
NY	Wise Components Inc	914-939-8600

WOLFF INDUSTRIES	1441 SAN MARINO AVE SAN MARINO CA 91108	818-793-9148
A WOLFF EMP	10 ENG 2 \$250-\$500K	

WONDER CORP OF AMERICA	22 ELIZABETH BOX 5070 NORWALK CT 06856 TWX 643792	203-866-3033
P SCHUB EMP	150 ENG 6 OVER \$10,000K	

WOOD N COUNTER LABORATORY INC	1525 E 53RD ST CHICAGO IL 60615	312-324-1114
M CRAWFORD		

WORKMAN ELECTRONIC PRODUCTS INC	75 PACKINGHOUSE RD SARASOTA FL 33578 TWX 810-864-0401	800-237-6666
J ABEL EMP	150 ENG 2 \$5,000-\$10,000K	
CA	Carelli EMA Inc Burlingame	415-342-4514
CA	Don North Assoc W Covina	213-960-5441
CO	Norris & Co Colo Spring	303-756-8697
FL	Raulson & Co Inc Miami	305-596-2332
GA	Electronic Reps Sarasota	813-351-4307
GA	Brooks McRoe Atlanta	404-474-3928
IL	Champion Sales & Assoc Wauconda	312-526-3700
KY	Mid-Central Sales Co Fern Creek	502-239-5614
MA	Jonel Sales Natick	617-237-1260
MI	Harvey Sales Livonia	313-476-1974
MN	Select Sales Mnpls	612-827-3637
MS	S L Welch & Co Jackson	601-932-5534
MO	Lectro Reps Liberty	816-781-2522
NY	Jack Brown Sales Reps Whitestone	718-767-1977
NY	L J McTaggart & Assoc Grand Island	716-773-9222

OH	Miller Sales Assoc Cleveland	216-321-3900
TX	J & J Sales Co Dallas	214-328-9739
VA	Crown Assoc Charlottesville	804-939-6373
WA	Evergreen Mktg Group Seattle	206-633-3160
FR	Len Finkler Ltd Downsview Ont	416-630-9103
FR	Central Elect Export Miami	

WORKPLACE SYSTEMS INC	562 MAMMOTH RD BOX 15 LONDONDERRY NH 03053	603-622-3727
R ZEAMANS EMP	45 ENG 1 \$2,500-\$5,000K	

WORLD STORAGE TECHNOLOGY LTD	14251 FRANKLIN AVE TUSTIN CA 92680 TWX 182727	714-838-1491
R MCGOWAN EMP	190 ENG 8 OVER \$10,000K	

WOVEN ELECTRONICS CORP	BOX 189 MAULDIN SC 29662	
TWX	810-287-2091	803-963-5131
B BODE		

WRB ASSOC INC	1030 CHICAGO RD BOX 1594 TROY MI 48099	313-589-0054
D VALLONE EMP	20 ENG 13	
CA	Harais Co 63 Marin Valley Novato	
FR	Vickers-Warrick Ltd 342 Dewitt N Stony Creek ON	

WRIGHT CAPACITORS	3000 S ORANGE SANTA ANA CA 92707	714-546-2490
C CRANDALL EMP	15 ENG 2 \$1,000-\$2,500K	
ADV PG	66	
CA	Luscombe Engineering Campbell	408-370-2020
TX	Delta Components Seagoville	214-287-6333

WRIGHT COMPONENTS INC	BOX 160 PHELPS NY 14532 TWX 64-6898	315-548-9501
W KRANZ EMP	135 ENG 9 \$5,000-\$10,000K	

WRIGHT STEEL & WIRE CO G F	243 STAFFORD ST WORCESTER MA 01603	617-754-6824
F CAPALAB EMP	100 ENG 4	
CA	Flynn & Enslow Signal Hill	595-5673
CO	Fred Gamble Littleton	798-8184
DE	Carmine Assoc Newark	731-0697
FL	Buck Newell Co Jacksonville	396-0252
GA	E L Hornbrook Co Avondale Estates	377-4283
IL	G F Wright Steel & Wire Co Bedford Park	312-563-0100
KS	Lowell Kangas & Assoc Shawnee Mission	631-3515
LA	Jas M Baldwin Co New Orleans	891-9745
MO	Lowell Kangas & Assoc St Louis	821-4050
OH	Progressive Mkt Co Perrysburg	419-874-6100
TX	Fred H Zimmerman Dallas	631-1043
UT	Dun D Gamble Co S L C	581-9579

WSI PURE DC	18 SHELDON AVE N KITCHENER ON N2G 3Y9	519-579-0536
D WISMER EMP	6 ENG 1 \$100-\$250K	

WUERTH PRODUCTS DIV	3423 GARFIELD ST HOLLYWOOD FL 33021	305-920-4111
R WORTH EMP	3 ENG 1 \$250-\$500K	

XANADU CONTROLS DIV ELECTROID	CORP 45 FADEM RD SPRINGFIELD NJ 07081 TWX 139241	201-467-8100
P MESNIAEFF EMP	15	

XCEL CONTROLS INC	1600 W 6TH ST MISHAWAKA IN 46544	219-259-7804
J BRICKLEY EMP	30 ENG 10 \$5,000-\$10,000K	
CA	Xcel Controls Milpitas	408-946-0222
NC	Xcel Controls Charlotte	704-337-2352
TX	Xcel Controls Houston	713-931-6691

DISTRIBUTORS

AL	Industrial Elec Supply Birmingham	205-956-8504
CA	Automated Dynamics Laguna Hills	714-855-8235
CA	Automated Dynamics Milpitas	408-946-0222
CO	Automated Dynamics Arvada	303-425-5242
CT	Energy Control Systems Windsor	203-563-4575
FL	Professional Controls Clearwater	813-752-2650
GA	Professional Controls Norcross	401-449-4577
IL	Tara Sales Berkeley	312-449-6434
IN	Process Automation Indpls	317-849-3682
MI	Fox Systems Brighton	313-227-4497
MN	Kim Controls St Paul	612-483-9751
MO	Durkin Equip Maryland Hts	314-291-0000
NH	Energy Control Systems Hudson	603-889-6470
NJ	Miller Knapp Electric Edison	201-985-2600
NY	Great Lakes Controls Pittsford	716-385-6385
OH	Richard Equip Cincinnati	800-543-0350
OK	Automated Dynamics Yale	918-382-2405
OR	Pacific Controls Portland	503-249-2033
PA	Miller & Dietz Co Fenzler	215-647-7373
TN	Automation Engineering Memphis	901-382-5544
WI	Professional Controls Sussex	414-246-3220

XEDAR CORP	2500 CENTRAL AVE BOULDER CO 80301	
TWX	910-940-2512	303-443-6441
C LATHROP EMP	10 ENG 2 \$1,000-\$2,500K	

XENON CORP	20 COMMERCE WAY WOBBURN MA 01801 TWX 951142	617-658-8940
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XENTEX INC	760 SHADOWRIDGE DR VISTA CA 92083	
TWX	910-322-1155	619-727-0940
EMP	400 ENG 5 OVER \$10,000K	

AL	Conley & Assoc Huntsville	205-882-0316
CA	RDP Instruments Sunnyvale	408-735-9040
CA	Thorson Co Signal Hill	213-595-0361
FL	Conley & Assoc Oviedo	305-365-3283
GA	Conley & Assoc Doraville	404-447-6992
IL	Berndt Assoc Chicago	312-283-0713
IN	Berndt Carmel	317-844-0114
MD	Beacon North Randallstown	703-591-1300
MI	Fred Gehrike & Assoc Southfield	313-559-5363
MN	Berndt Assoc Mnpls	612-546-2021
NY	R R Burton Grandview	816-763-5385
NY	Bell Controls Nashua	603-882-6984
NH	Nycom Inc East Syracuse	315-437-8343
NC	Spectrum Sales Box 77 Hartsdale	914-997-1166
NC	Conley & Assoc Raleigh	919-767-9862
OH	Tri-State Cincinnati	513-761-7993
OR	J J Backer Portland	503-297-8744
PA	Tritek Haddonfield	215-627-0149
TX	Allied Components Inc Dallas	214-238-0408
VA	Beacon North Fairfax	703-591-1300
WA	J J Backer Seattle	206-285-1300
WI	Berndt Milwaukee	414-545-8400

XERCON INC	BOX 554 PORTLAND OR 97207	503-641-9525
G OSGOOD EMP	10 ENG 1 \$100-\$250K	

CA	Soffa Ind Sales Santa Fe Sprgs	213-944-9821
CO	I W Strong & Assoc Denver	303-292-6900
FL	Industrial Systematics Corp Euclid	904-357-5100
GA	Systematix Jonesboro	404-474-3661
IN	Ihrig Assoc Indpls	317-783-7630
MA	A R Booth & Co Canton	617-828-4556
MI	Roth Ind Sales Bloomfield Hills	313-626-3171
NY	MWM Assoc Farmingdale	516-766-4220
OH	R R Smith Wadsworth	216-334-2518
PA	R W Moulton & Assoc Ingomar	412-366-3333

TX	Westmoreland Engrg Sales Co Houston	713-868-6134
VA	Scott Equip Co Huntersville	704-875-1611
FR	Wismer & Rawlings Elec Ltd Vancouver BC	604-736-7211

XEROX CORP BUSINESS SYS GROUP		
XEROX SQUARE 06B ROCHESTER NY 14644		716-423-3539
EMP 28000 OVER \$10,000K		
AL	Xerox Corp Birmingham	205-870-4300
AZ	Xerox Corp Phoenix	602-264-4971
CA	Xerox Corp Irvine	714-851-3041
CA	Xerox Corp San Francisco	415-393-1700
CO	Xerox Corp Denver	303-694-6000
CT	Xerox Corp Hartford	203-278-9810
DC	Xerox Corp Arlington	703-527-6400
FL	Xerox Corp Jacksonville	904-725-8210
GA	Xerox Corp Atlanta	404-255-5550
HI	Xerox Corp Honolulu	808-521-9536
IL	Xerox Corp Chicago	312-454-2500
IN	Xerox Corp Indpls	317-875-6500
IA	Xerox Corp Des Moines	515-225-8010
KY	Xerox Corp Louisville	502-426-7700
LA	Xerox Corp Kenner	504-464-4200
MD	Xerox Corp Baltimore	301-583-5000
MA	Xerox Corp Boston	617-654-1400
MI	Xerox Corp Detroit	313-353-4200
MN	Xerox Corp Minneapolis	612-921-1300
MO	Xerox Corp St Louis	314-434-1460
NE	Xerox Corp Omaha	402-393-6161
NJ	Xerox Corp Morris Plains	201-540-7500
NY	Xerox Corp New York	212-916-2300
NY	Xerox Corp Rochester	716-442-9470
NC	Xerox Corp Charlotte	704-544-1290
OH	Xerox Corp Columbus	614-460-9010
OK	Xerox Corp Okla City	405-848-8931
OR	Xerox Corp Portland	503-221-1850
PA	Xerox Corp Phila	215-988-2200
TN	Xerox Corp Memphis	901-345-6500
TX	Xerox Corp Dallas	214-830-4000
UT	Xerox Corp SLC	801-535-8500
VA	Xerox Corp Richmond	804-289-5400
WA	Xerox Corp Seattle	206-241-1200
WI	Xerox Corp Milwaukee	414-784-8726
FR	Xerox Corp Hato Rey PR	809-754-7600

XICO INC	9737 ETON AVE CHATSWORTH CA 91311	
TWX	709577	818-709-4403
W IRWIN EMP	16 ENG 6	

XICOR INC	851 BUCKEYE CT MILPITAS CA 95035	
TWX	910-379-0033	408-946-6920
B MATTERN EMP	500 ENG 350 OVER \$10,000K	
AL	CSR Electronics Huntsville	205-533-2444
AZ	Thom Luke Sales Scottsdale	602-941-1901
CA	Xicor Inc San Jose	408-292-2011
CA	Xicor Inc Newport Beach	714-752-8700
CO	D/Z Assoc Niwot	303-652-2173
CT	Xicor Inc Danbury	203-743-1701
FL	Xicor Inc Altamonte Springs	305-767-8010
GA	CSR Electronics Atlanta	404-396-3720
IL	Xicor Inc Schaumburg	312-490-1310
IN	Electro Reps Inc Indpls	317-842-7202
IA	Chuck Horn & Assoc Cedar Rapids	319-393-8703
KS	Midwest Technical Sales Merriam	913-236-8557
MD	Micro Comp Baltimore	301-247-0400
MA	Xicor Inc Stoneham	617-279-0220
MI	Action Component Sales Novi	313-349-3940
MN	John G Twist Co Bloomington	612-835-2120
NJ	Contek Inc Mt Laurel	609-235-8505
NY	HLM Assoc Northport	516-757-1606
NY	PI Tronics Syracuse	315-455-7346
OH	Omega Sales Corp Centerville	513-434-5507
TX	Xicor Inc Dallas	214-669-2022
UT	D/Z Assoc SLC	801-483-1025
VA	Micro Comp Huddleston	703-297-7614
WA	Vantage Bellevue	206-455-3460
WI	Oasis Sales Corp Brookfield	414-782-6660
FR	Kaytronics Ville St Pierre PQ	514-367-0101
FR	Kaytronics Concord ON	416-669-2262
FR	Kaytronics Surrey BC	604-581-7611

DISTRIBUTORS

AL	Hall-Mark Huntsville	205-837-8700
AL	Marshall Huntsville	205-881-9235
AZ	Marshall Ind Tempe	602-968-6181
AZ	Hall-Mark Phoenix	602-437-1200
CA	Marshall Ind El Monte	818-442-7204
CA	Marshall Ind Irvine	714-660-0951
CA	Image Tustin	714-730-0303
CA	Hall-Mark San Jose	408-946-0900
CA	Hall-Mark San Diego	619-268-1201
CO	Marshall Ind Denver	303-427-1818
CO	Hall-Mark Englewood	303-790-1662
CT	Marshall Ind Wallingford	203-265-3822
FL	Marshall Ind Orlando	305-841-1878
FL	Hall-Mark Pompano Beach	305-971-9280
GA	Hall-Mark Norcross	404-447-8000
IL	Marshall Ind Schaumburg	312-490-0155
IL	Diplomat Bensenville	312-595-1000
IL	Hall-Mark Bensenville	312-860-3800
KS	Hall-Mark Lenexa	913-888-4747
MD	Marshall Ind Gaithersburg	301-840-9450
MD	Hall-Mark Columbia	301-988-9800
MA	Marshall Ind Burlington	617-272-8200
MN	Marshall Ind Plymouth	612-559-2211
MN	Hall-Mark Bloomington	612-854-3223
MO	Hall-Mark Earth City	314-291-5350
NJ	Hall-Mark Fairfield	201-575-4415
NJ	Marshall Mt Laurel	609-234-9100
NM	Alliance Elect Albuquerque	505-292-3360
NY	Marshall Ind Hauppauge	516-273-2

TX	Marshall Ind Dallas	214-233-5200
TX	Marshall Ind Houston	713-789-6600
TX	Hall-Mark Dallas	214-343-5000
TX	Hall-Mark Houston	713-781-6100
UT	Diplomat Elect SLC	801-486-4134
WA	Marshall Ind Bellevue	206-747-9100
WI	Hall-Mark New Berlin	414-797-7844
FR	Zenitronics Brampton ON	416-451-9600
FR	Zenitronics St Laurent PQ	514-735-5361
FR	Zenitronics Richmond BC	604-273-5575
FR	Zenitronics Winnipeg MB	204-775-8861
FR	Zenitronics Calgary AB	403-272-1021

XIDAK INC	530 OAK GROVE AVE 101	
MENLO PARK CA	94025	415-324-8745
R KIRZNER EMP	13 \$500-\$1,000K	

XSIS ELECTRONICS INC 12620		
W 63 ST SHAWNEE KS 66216		
TWX 37227		
G DEHNERT EMP 10 ENG 2 \$1,000-\$2,500K		
AD PGT 305		
AL	Murcota Corp Huntsville	205-539-8476
AZ	Bob Anderson Co Phoenix	602-266-2070
CA	Loeswick's Mt View	415-967-5880
CA	Westalronics Inc Culver City	213-641-4122
CO	Morbak Mktg Loveland	303-689-8900
CT	Ashworth Assoc Stamford	203-968-0656
FL	E Butler Inc Altamonte Springs	305-339-8096
IL	Sieger Assoc Schaumburg	312-310-8844
KY	G W Thelen Co Ft Mitchell	606-341-8181
MD	VPI Inc Ellicott City	301-461-2525
MA	Ashworth Assoc Shrewsbury	617-845-9688
MN	Aldridge Assoc Eden Prairie	612-944-8433
NJ	Addem Sales Fairfield	201-882-0993
NC	Murcota Corp Winston Salem	919-722-9445
TX	Repmasters Sherman	214-247-6236

XYCOM INC 750 N MAPLE RD SALINE		
MI 48176 TWX 810-223-8153		
J WICKER EMP 150 ENG 30 OVER \$10,000K		
CA	Xycom Inc San Mateo	415-573-0404
CA	Sales One San Jose	408-947-1266
CO	Hannah-Hill Arvada	303-424-0108
FL	Startec Palm Bay	305-277-2247
IL	Xycom Inc Downers Grove	312-963-7272
IL	Oasis Sales Elk Grove Vlg	312-640-1850
MD	Rep-Tron Baltimore	301-799-7490
MA	Xycom Inc Middleton	617-599-6462
MA	Northern Computer Sales Canton	617-821-2180
MN	Professional Sales for Industry Mpls	612-944-8545
MO	Design Solutions Inc St Louis	314-961-7170
NJ	Emtec East Hanover	201-428-0600
OH	Applied Data Mgmt Cincinnati	513-579-8108
PA	Xycom Inc Quakertown	215-536-0810
PA	Delta Technical Sales Horsham	215-443-5503
TX	Xycom Inc Spring	713-350-9200
TX	Technological Sys Sales Dallas	214-458-0644
WA	Northwest Mktg Assoc Bellevue	206-455-5846

DISTRIBUTORS		
CA	Kierulf Elect San Jose	408-971-2600
CA	Advanced Digital Grp Garden Grove	714-897-0319
MA	Lionex Corp Wilmington	617-657-5170
NY	McNaughton-McKay Madison Hts	313-399-5750
MI	Schwabe Elect Westbury	516-334-7474
FR	L A Varah Ltd Oakville ON	416-842-8484

XYLOG CORP	150 TILLMAN ST	
WESTWOOD NJ	07675	201-664-7997
EMP 25 \$1,000-\$2,500K		

XYLOGICS INC	144 MIDDLESEX TPK	
BURLINGTON MA	01803	
TWX 710-332-0262		617-272-8140
K GONOR EMP	130 ENG 23 OVER \$10,000K	
CA	Xylogics Sherman Oaks	818-905-0161
CA	Xylogics Los Gatos	408-354-4122
TX	Xylogics Dallas	214-239-7985

DISTRIBUTORS		
AL	Pioneer Technologies Huntsville	205-837-9300
FL	Pioneer Technologies Orlando	305-834-9090
GA	Pioneer Technologies Norcross	404-448-1711
MD	Pioneer Technologies Gaithersburg	301-921-0660
NC	Pioneer Technologies Charlotte	704-527-8188
PA	Pioneer Technologies Horsham	215-674-4000
FR	Interotechnology Ontario	416-445-5500
FR	Micos Computer Systems Ontario	416-624-0320

XYNETICS PRODUCTS 2962		
STENDER WAY SANTA CLARA		
CA 95054 TWX 910-338-0500		
D MORENO EMP 500 ENG 60		
MA	Xynetics Products Boston	617-749-8150
WA	Xynetics Products Seattle	206-462-1166

XYTEC PLASTICS INC	BOX 99057 E	
TACOMA WA	98499	206-582-0644
J OATES EMP	200 ENG 5	

XYTEQ SYSTEMS CORP	103	
CENTRAL AVE CLIFTON NJ	07011	201-772-3444
P RUSSO		

XYZ ELECTRONICS INC	RTE	
12 BOX 322 INDIANAPOLIS		
IN 46236		317-335-2128
J FLACK EMP	10 ENG 2	

YARDNEY BATTERY DIV 82		
MECHANIC ST PAWCATUCK		
CT 02891 TWX 710-470-0260		203-599-1100
H LEWIS JR EMP	275 ENG 45 OVER \$10,000K	

YELLOW SPRINGS INSTRUMENT CO INC		
BOX 279 YELLOW SPRINGS		
OH 45387 TWX 20-5437		513-767-7241
R HEGGEMANN EMP	400 ENG 15 OVER \$10,000K	

DISTRIBUTORS		
CA	Coast Instruments San Leandro	415-483-3774
CA	RDX Corp Pasadena	213-681-3451
CA	Craft Assoc Atlanta	404-256-0420
IL	Newark Elect Chicago	312-638-4411
MA	Bordewick Eng Sales Norwell	617-659-4915
MN	Trask Engrg Mpls	612-537-2434
NJ	RJM Sales Scotch Plains	201-322-7880
OH	RDP Corp Dayton	513-253-6175
TX	Milestek Inc Lewisville	214-436-1597
WA	Topp Eng Sales Bellevue	206-747-5400
FR	Finnann Engrd Prods Scarborough ON	416-438-6070

YOKOGAWA CORP OF AMERICA		
2 DART RD SHENANDOAH		
GA 30265 TWX 810-766-4760		
EMP 135 ENG 20 OVER \$10,000K		
AZ	J Smith & Assoc Phoenix	602-267-0981
CA	Pacific Coast Mktg Los Gatos	408-307-3505
CA	Brooks-Moore & Assoc Santa Ana	714-544-8900
CO	J Smith & Assoc Colo Springs	303-597-5343
FL	FLW Southeast Orlando	305-894-1100
GA	FLW Southeast Marietta	404-424-1731
IL	Raeep Omc S Holland	312-331-6001
IN	Inst Sales & Serv Noblesville	317-773-2752
KS	Palatine Engineering Mission	913-831-0555
KY	Inst Sales & Serv Noblesville	317-773-2752
MD	Massey Assoc Reisterstown	301-833-2033
MA	Eastronix Inc Bedford	617-275-5775
MN	Mark Co Mpls	612-920-6280
MO	Palatine Engineering Hazelwood	314-839-0800
NM	J Smith & Assoc Albuquerque	505-265-3406
NY	Radiation Elctns Port Chester	914-937-2300
NC	FLW Southeast Concord	704-782-6515
TX	FLW Southeast Memphis	901-345-3563
TX	Ev Smith Sales Co Houston	713-649-5756
VT	Eastronix Inc Shelburne	802-985-3743
WA	A/D Electronics Kirkland	206-821-3205

DISTRIBUTORS		
CA	Metemaster Los Angeles	213-685-4340
GA	Brownell Inst & Cont Hapeville	404-762-5181
LA	Industrial Inst Wks New Orleans	504-733-8355
MD	ELL Instruments Sparks	301-771-4800
NY	Trott Elect Pittsford	716-586-8251
OH	Pioneer Instruments Cleveland	216-587-3600
PA	Sunshine Scien Insts Phila	215-673-5600

YORK WIRE CO	BOX 994 CLIFTON	
NJ 07014		201-472-8200
R FRICK EMP	25 ENG 2 \$500-\$1,000K	

Y S PORCELAIN TUBES MFG CO LTD		
58 IZUMI-CHO SETO CITY		
AICHI PREF JAPAN TWX 4496013		0561-82-2620
T YAMADA EMP	300 ENG 15 \$1,000-\$2,500K	

YUASA BATTERY AMERICA INC		
9728 ALBURTIS AVE SANTA		
FE SPRINGS CA 90670		
TWX 696-272		
EMP 17 ENG 1		
CA	Yuasa Battery America WATS	800-423-4667
CA	Yuasa Battery America WATS	800-962-1287

ZAGAR INC	24000 LAKELAND BLVD	
CLEVELAND OH	44132	
TWX 098-5396		216-731-0500
J ZAGAR EMP	210 ENG 22 \$5,000-\$10,000K	
AL	Tooling Concepts Tucker	404-938-7470
CA	Zagar Inc Los Angeles	213-472-2689
CA	Performance Machine Tools Danville	415-820-8470
CO	Geoffroy Co Denver	303-756-3684
CT	Tri-State Industrial W Springfield	413-732-6262

IL	Zagar Inc Barrington	992-2027
IN	Machine Tool Affil Indpls	317-846-3787
MA	Frank Snyder Assoc Cambridge	864-6688
MI	Zagar Inc Warren	751-8400
MN	Midwest Mach Tool Mpls	517-3550
MO	Just Machy Co Maryland Hts	567-6633
NE	Gibbs Machine Tools Omaha	402-553-8087
NJ	Biggs-Nystrom Hackensack	201-487-1032
NY	Struebing & Buchheit Buffalo	873-8908
NY	R H Britton Machy Sales E Syracuse	437-3309
NC	Marshall Machinery Indian Trail	704-831-7610
OH	Zagar, Inc Dayton	274-7553
OR	Allied Northwest Machine Tools Portland	234-7513
PA	E H Hoffman Co Horsham	672-6550
TN	Tooling Concepts Tucker	404-938-7470
TX	Reliant Tool Products Co Dallas	358-2581
WA	Perine Machy & Supply Co Kent	251-5483
WI	L S Brzezinski & Assoc Milwaukee	414-931-6277
FR	Smith Press Autom Ltd Burlington ON	639-4466

ZAISAN INC	6650 ROXBOROUGH DR	
HOUSTON TX	77041	713-896-8794
EMP 30		

ZAX CORP	2572 WHITE RD IRVINE	
CA 92714 TWX 183829		714-474-1170
A GINTER EMP	35 ENG 6	

ZEHNTEL INC 1600 S MAIN		
WALNUT CREEK CA 94598		
TWX 910-385-6300		
D NOREN EMP 750 ENG 150		
CA	Zehntel Southwest Anaheim	714-937-1324
CA	Zehntel Santa Clara	408-970-0411
CO	Zehntel Denver Castle Rock	303-688-8065

FL	Zehntel Southeast Altamonte Springs	305-834-0810
GA	Zehntel Atlanta	404-447-8258
IL	Zehntel Chi Arlington Hts	312-398-7788
IN	Zehntel Ft Wayne	219-422-8496
MN	Zehntel Minn Bloomington	612-854-9494
NH	Zehntel Northeast Nashua	603-888-6200
NJ	Zehntel Mid Atlantic Pinebrook	201-882-9450
NC	Zehntel Raleigh	919-872-8222
TX	Zehntel Texas Dallas	214-690-0400
VA	Zehntel Virginia Bch	804-498-4309

CARL ZEISS INC ONE ZEISS DR		
THORNWOOD NY 10594		
V ORTLAND EMP 300		
CA	R Klotsche El Cagon	619-444-6889
CA	R Morales Pico Rivera	213-699-5017
GA	G M Jones Liburn	404-921-4110
GA	J Feist Atlanta	404-451-0166
MA	P Presley Woodshole	617-548-3705
MO	M Fenimore Independence	816-373-6146
NH	M Flanders Nashua	603-881-7106
NJ	G Diss Edison	201-548-0587
PA	P Neuschwander Lansdale	215-855-7617
TX	T Tharp Irving	214-869-2030
VA	J Schindele Fairfax	703-698-7240
WA	P Woodcock Woodinville	206-788-4009
FR	Carl Zeiss Can Ltd Don Mills ON	416-449-4660

DISTRIBUTORS		
AZ	Microscopew SW Inc Tempe	602-838-7801
CA	Carson Optical Instr Inc Oakland	415-834-2587
CA	Max Erb Instruments Burbank	213-849-2374
CA	Microscopes West Sunnyvale	408-735-7474
FL	Instrument Assoc Longwood	305-830-8616
GA	Georgia Instr Corp Atlanta	404-458-8948
HI	Okake Instruments Honolulu	808-395-0891
IL	Eberhardt Instr Co Downers Grove	312-964-4210
LA	Flanagan Instr Inc Metairie	504-885-1414
MD	Baltimore Instr Co Baltimore	301-426-3656
MA	Atlantex & Zieler Corp Dedham	617-326-7410
MA	Reinin Instrument Co Woburn	617-935-3050
MN	North Central Inst Inc Plymouth	612-559-3008
MO	Hitschfel Opt Instr Inc St Louis	314-727-2250
NJ	Sylvax Scientific Morris Plains	201-267-5799
NY	Micro-Med Instr Inc Walden	914-564-2999
NY	Morrell Inst Co Melville	516-873-8777
NC	Eastern Microscope Co Raleigh	919-782-0000
OH	Morgan Instruments Cincinnati	513-874-2191
PA	Opto-Systems Inc Jenkintown	215-884-3337
TX	Deinstr Instr Co San Antonio	215-699-0063
TX	Micro-Tech Instruments Dallas	214-446-9600
WA	Bartels & Stout Bellevue	206-453-1705

ZENDEX CORP 6700 SIERRA LA		
DUBLIN CA 94568		
TWX 910-389-4009		
V OLIVER EMP 65 ENG 7 \$2,500-\$5,000K		
AZ	Holder Hauer Inc Phoenix	602-242-4025
CA	Qualtech Assoc N Hollywood	213-765-1419
FL	Shamrock Computer Sys Port St Lucie	305-878-6771
MD	Spectro Assoc Annapolis	301-269-0793
MA	Advanced Indus Sys Ellissville	314-391-0366
MN	Geo Russell & Assoc Mpls	612-854-1166
MO	L Comp Maryland Heights	314-291-6200
NH	Zendex Northeast Amherst	603-673-2860
NJ	Gebhardt Marketing Springfield	201-376-4415
NY	Traxonics Amsterdam	518-843-1445
OH	Applied Data Mgmt Cincinnati	513-579-8108
OK	Jerry Robinson & Assoc Tulsa	918-492-0390
PA	Lybra Huntingdon Valley	215-947-3554
WA	Systems Tech Sales Bellevue	206-462-8088

ZENITH ELECTRONICS CORP	
RAULAND DIV 2407 W NORTH AVE	
MELROSE PARK IL 60160	
TWX 72-1488	312-345-4700
A DEL VECCHIO	

ZERO CORP 777 FRONT ST BOX 509

BURBANK CA 91503	
TWX 910-498-2237	818-846-4191
J RODERER EMP 1300 OVER \$10,000K	
AZ Howe & Howe Sales Phoenix	602-264-7971
CA Zero Corp Palo Alto	415-964-7700
CA McKinley Ecltn Sales San Diego	619-271-7221
CO Component Prod Boulder	303-530-2800
FL E I R Inc Maitland	305-660-9600
IL Carlson Elect Sales Elk Grove Vlg	312-956-8240
IN Leslie M Devoe Co Indpls	317-842-3245
IA Carlson Elect Sales Cedar Rapids	319-377-6341
LA Haley & Assoc Chalmette	504-277-0197
MD Marktron Inc Hunt Valley	301-628-1111
MA Zero-East Div Monson	413-267-5561
MI Greiner Assoc Grosse Pointe Park	313-499-0188
MN Electronic Sales Agency	
Bloomington	612-884-8291
MO Cadon Tech Sales St Louis	314-645-8670
NJ R P Luce & Co Piscataway	201-752-8750
NM Fry-Gates Co Albuquerque	505-262-1525
NY R P Luce & Co New Hyde Pk	516-437-4550
NY Fountain Young Syracuse	315-437-7733
NC Wolff Elect Sales Apex	919-362-5022
OH Tom Mulligan & Assoc Columbus	614-457-2242
OR RTS Willsonville	503-638-5670
PA Inchner Sales Huntingdon Valley	215-947-5660
TX John Gibbs Assoc Ft Worth	817-237-1455
UT Effective Sales SLC	801-266-9617
VA Marktron Inc Charlottesville	301-251-8990
WA Rts Inc Seattle	206-285-1363

DISTRIBUTORS

AZ Dalls Elect Sup Phoenix	602-275-2626
AZ Inland Elect Supply Tucson	602-294-2628
AZ R V Weatherford Co Phoenix	602-894-2874
CA Weatherford Glendale	213-849-3451
CA Weatherford Sunnyvale	408-738-8694
CA Weatherford San Diego	619-695-1700
CA Channel Elect Santa Barbara	805-965-8551
CA R V Weatherford Co Pomona	213-966-8461
CA Rose Elect Dist Co Burlingame	415-348-2740
CO R V Weatherford Co Denver	303-428-6900
CT Ultronic Inc Stratford	203-778-4201
FL Electronic Equip Co Miami	305-871-3500
FL EHI Largo	813-584-5590
IL LCOMP Addison	312-628-1400
IN Genesis Elect Indpls	317-637-5571
KS LCOMP Wichita	316-265-8501
LA Wm B Allen Supply New Orleans	504-525-8222
MD Treko Sales Beltsville	301-937-8260
MD Pytronic Indus Savage	301-792-0780
MA Rush Indus Winchester	617-729-5800
MA Future Elect Westboro	617-366-2400
MI R M Elect Wyoming	616-531-9300
MI Empire Electronics Clawson	313-435-0460
MN Industrial Components Mpls	612-831-2666
MO LCOMP Maryland Hts	314-291-6200
MO LCOMP KC	816-221-2400
NJ Technical Elect Dist Englewood	201-894-0800
NY ASI Elect Endwell	607-754-3823
NY Carlec Elect Ind Sales Bohemia	516-567-4200
NC Kirkham Elect Winston-Salem	919-722-9131
OH Hughes-Peters Columbus	614-294-5351
OH Prehler Elect Middleburg Hts	216-243-5510
OH Hughes-Peters Cincinnati	513-351-2000
OH Stotts-Friedman Dayton	513-298-5555
PA Advacom Inc McKean	814-476-7774
PA Powell Elect Phila	215-365-1900
PA Pytronic Indus Montgomeryville	215-643-2850
TX Force Elect TX Dallas	214-438-5700
TX International Elect El Paso	915-598-3406
TX R V Weatherford Co Houston	713-688-7406
TX R V Weatherford Co Dallas	214-931-7333
TX Force Elect TX Houston	713-772-8483
UT Standard Supply Co S L C	801-486-3371
WA Zepher Elect Sales Seattle	206-241-1980
WA R V Weatherford Co Seattle	206-575-1340
FR Future Elect Pte Claire PQ	514-694-7710
FR R-A-E Ind Elect Ltd Burnaby BC	604-291-8866
FR Future Elect Downsview ON	416-663-5563
FR Future Elect Ottawa ON	613-820-8313

ZERO-MAX UNIT BARRY WRIGHT

2845 HARRIET AVE S	
MINNEAPOLIS MN 55408	
TWX 29-0994	612-872-6300
R ROD EMP 50 ENG 6 \$2,500-\$5,000K	
AZ J Snyder Phoenix	279-2010
CA Engineered Systems Co Tustin	838-0303
CA Engineered Systems Co San Francisco	956-3162
CO Control Agency Westminster	427-4179
FL Hummel Industrial Sales Miami	751-5163
IL Glessner Corp Schaumburg	894-5580
KS Wayne Prince Co Shawnee Mission	362-4210
MA M C Bright Co Chelmsford	256-5061
MI W Van Leuven & Assoc Fenton	629-5070
MN R E Norene & Assoc Cedarburg	377-5440
MO Drive Design Manchester	394-6631
NJ NESCO Westfield	233-3833
NC Techni-Reps Greensboro	272-7518
OH Dorsey-Alexander Inc Cincinnati	221-7518
OR Norman Rupp Co Portland	231-7701
PA E L Faller Co Lancaster	569-9778
TN James A Wills Co Nashville	262-4097
TX J T Chapman Co Dallas	637-4220
UT Control Agency SLC	972-8787
WI R E Norene & Assoc Cedarburg	377-5440

ZETA LABS INC SUB COT 3265

SCOTT BLVD SANTA CLARA	
CA 95054 TWX 910-379-6489	408-727-6001
C FRANK EMP 225 ENG 35 OVER \$10,000K	

ZEUS INDUSTRIAL PRODUCTS INC

BOX 298 RARITAN NJ 08869	
TWX 710-480-9346	201-526-0800
A SILVERMAN EMP 150 ENG 3	
ADV PGS 210,519	
NJ Zeus Industrial Prods Out of State	800-526-3842

ZEXCO 7661 DENSORE AVE 8

VAN NUYS CA 91406	818-997-7895
E ZUEHLKE	

ZIATECH CORP 3433 ROBERTO CT

SAN LUIS OBISPO CA 93401	
TWX 4992316	805-541-0488
R GIOVANNELLI EMP 30 ENG 7	

AL EMA Inc Huntsville	800-633-2920
CA AMASCO Sunnyvale	408-733-8690
CA AMASCO Carson	213-516-8561
CO Hannah-Hill Arvada	303-424-0108
IL First Rep Co Elmhurst	312-530-2450
IN Tim Barnett Sales Indpls	317-845-0098
MD Rep-Tron Inc Baltimore	301-799-7490
MA NCS Canton	617-821-2180
MN Micro Resources Corp Edina	612-830-1454
NJ J J Wild Inc Pompton Lakes	201-839-0071
NY J J Wild Inc Jericho	516-935-6600
OH Dolfuss-Root & Co Strongsville	216-238-0300
OR Tasco Inc Portland	503-245-8168
PA Dolfuss-Root & Co Bridgeville	412-221-4420
TX Dyna Marketing Houston	713-466-5039
TX Dyna Marketing Irving	214-438-6528
VA Rep-Tron Inc Baltimore	301-799-7490
WA Tasco Inc Bellevue	206-453-1414
FR Tracan Elctns Corp Mississauga ON	416-625-7752
FR Tracan Elctns Corp Pte Claire PQ	514-694-5343

ZIERICK MFG CORP RADIO CIRCLE

MOUNT KISCO NY 10549	
TWX 710-571-2143	914-666-2911
L NOYES EMP 100 ENG 8	
ADV PG 463	
IL Claeson Assoc Palatine	312-359-7230

DISTRIBUTORS

CA Yarbrough-Timco Laguna Hills	714-859-7021
CA Coast Air Mission Hills	818-898-2288
CA El-Corn Inc Cerritos	213-204-2961
CA Arow Fasteners Hayward	415-487-2100
CA Bisco Industries San Jose	408-435-8980
CA Alatec Products No Hollywood	818-464-5600
MA Rush Ind Winchester	617-729-5800
OH IPD Centerville	513-435-2086
OR Components Resources Beaverton	503-641-8488
TX JV Electronics Houston	713-447-5800
FR Zierick Products Concord Ont	416-669-1429

ZIOLOG INC 1315 DELL AVE

CAMPBELL CA 95008	
TWX 910-338-7621	408-370-8000
J TAMMEL	

FL Zilog Inc Largo	813-585-2533
GA Zilog Inc Atlanta	404-451-8452
IL Zilog Inc Schaumburg	312-885-8080
MA Zilog Inc Burlington	617-273-4222
NJ Zilog Inc Cedar Knolls	201-540-1671
NY Zilog Inc NYC	212-398-4497
OH Zilog Inc Woodmere	216-831-7040
TX Zilog Inc Dallas	214-931-9090
VA Zilog Inc Arlington	703-243-7900
FR Zilog Inc Cornwall ON	613-938-1121

DISTRIBUTORS

AL Hall-Mark Elect Huntsville	205-837-8700
CA Kieruff Elect LA	213-725-0325
CA Western Microtechnology	
Cupertino	408-725-1660
CO Bell Indus Wheatridge	303-424-1985
IN Advent Electronics Indpls	317-872-4910
MA Gerber Elect Norwood	617-769-6000
MA Lionex Corp Burlington	617-272-9400
NM International Elect Albuq	505-245-8127
NY Lionex Corp Hauppauge	516-273-1660
NY Schweber Elect Westbury	516-334-7474
TX Hall-Mark Elect Dallas	214-343-5000
TX International Elect El Paso	915-778-9761
UT Bell Indus SLC	801-972-6969
FR Future Elect Pte Claire PQ	514-694-7710

ZIMS MFG CO 26G PAINE AVE

IRVINGTON NJ 07111	201-372-3650
EMP 11 ENG 1 \$250-\$500K	
NJ Robert Deane Basking Ridge	201-766-0126
PA Miller-Smith Co Wayne	215-687-0750
SC Earl Cobb Agency Greenville	803-299-0406

ZIPPERTUBING CO BOX 61129

LOS ANGELES CA 90061	
TWX 910 346-6713	213-321-3901
B HOFFINE EMP 80 ENG 5	
AZ Accessible Prods Co Tempe	967-8888
FL Sales Engineering Concept	305-781-4800
MA Tom Maguire Assoc	617-551-0500
NJ Zipper tubing Co Wayne	201-256-4980
OH Zipper tubing Co N Olmstead	734-3286
TX Zipper tubing Co Carrollton	
FR Nova-Tronix Inc	408-727-9530

ZI-TECH INSTRUMENT CORP

2151 PARK BLVD BOX 60490	
PALO ALTO CA 94306	
TWX 334-447	415-326-2151
G ZIMAN EMP 10 ENG 3 \$1,000-\$2,500K	
CA Smith Clark Engrg Portola	415-851-3232
CA Outlast Electronics Torrance	714-449-9358
FL Brennar Assoc Clearwater	813-546-5006
MA R J Wilson Assoc Hingham	617-749-7575
MN Loren Green Assoc Mpls	612-571-6666
NY McIntosh Equip Corp New York	212-349-3288

NC Eshelman Carolina Charlotte	704-376-6408
PA Al Rogers Co Bristol	215-788-5071
TN Plastico Memphis	901-452-6527
WA Calvert Controls Medical Lake	509-244-3601

ZIYAD INC 100 FORD RD DENVER

NJ 07834	201-627-7600
D MAX EMP 300 OVER \$10,000K	
CA Ziyad Inc Sunnyvale	408-735-1372
CA Ziyad Inc Tustin	714-544-1229
FL Ziyad Inc Bradon	813-689-1164
IL Ziyad Inc Oakbrook Terrace	312-655-4546
MA Ziyad Inc	617-266-7730
OH Ziyad Inc	216-486-6644
TX Ziyad Inc Dallas	214-934-6722
VA Ziyad Inc Alexandria	703-683-2331

ZOLTECH CORP 7023 VALJEAN AVE

VAN NUYS CA 91406 TWX 755451	818-780-1800
B KAYTON EMP 10 \$5,000-\$10,000K	

DISTRIBUTORS

WA Almac Elect Bellevue	206-643-9992
WA Almac Elect Spokane	509-924-9500

ZOOM TELEPHONICS 207 SOUTH ST

BOSTON MA 02111	617-423-1072
J DONELAN	

DISTRIBUTORS

NE Centel Supply Lincoln	402-475-6622
NE Lincoln Telephone Lincoln	402-466-8337
TN Power & Telephone Sply Memphis	901-324-6116
WI Anixter Brown Deer	414-355-0222

ZYMO CORP 477 N MATHILDA AVE

SUNNYVALE CA 94088	
TWX 910-339-9530	408-730-8800
J JACOBSEN	

ZYTREX CORP 230 SANTA ANA CT

SUNNYVALE CA 94086 TWX 380620	408-733-3973
R SWERING EMP 175	

AL Montgomery Mktg Huntsville	205-830-0498
AZ Luscombe Engineering Scottsdale	602-949-9333
CA Reider & Assoc Escondido	619-741-0496
CA Quorum Santa Clara	408-980-0812
CO Candal Inc Golden	303-233-0155
CT Datatrack Eng Torrington	203-482-8774
FL Semtronic Assoc Altamonte Springs	305-831-8233
GA Montgomery Mktg Norcross	404-447-6124
ID Almac Philadelphia	215-698-4021
IL Dolin Sales Northbrook	312-498-8770
KS Baka Corp Wichita	316-682-8411
MD Pro Rep Columbia	301-992-7460
MA Comp Tech Inc Tyngsboro	617-649-3030
MN PSI Mpls	612-944-8545
NJ BGR Marlon	609-983-1020
NY Advanced Components Corp	
No Syracuse	315-699-2671
NY Lorac Sales Hicksville	516-681-8746
NC Montgomery Mktg Cary	919-467-8319
OH Giesting & Assoc Cincinnati	513-521-8800
OR ES/Chase Co Beaverton	503-641-4111
PA L D Lowery Inc Broomall	215-356-5300
TX Comp Tech Sales Arlington	817-265-6007
WI Dolin Sales Milwaukee	414-482-1111
FR Kaytronics Ville St Pierre PQ	514-367-0101
FR Kaytronics Surrey BC	604-581-5005

DISTRIBUTORS

CA Bell Indus Thousand Oaks	818-340-1940
CA Western Microtechnology	
Cupertino	408-725-1660
CT Cronin Wallingford	203-265-3134
FL Reptron Tampa	813-855-4656
IL GBL Good Elect Elk Grove Vlg	312-593-3220
MD Pioneer Gaithersburg	301-921-0660
MA JV Elect Wilmington	617-273-4300
NY ADD Elect E Syracuse	315-334-7474
NY Schweber Westbury	516-334-7474
PA Almac Philadelphia	215-698-4021
FR Future Pointe Claire PQ	514-694-7710

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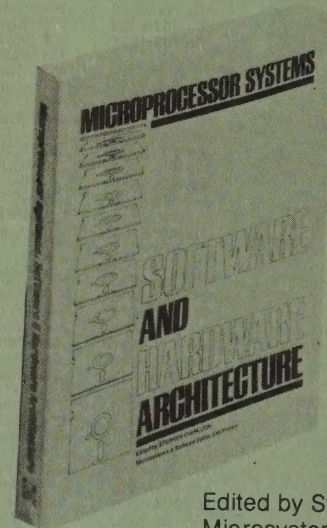
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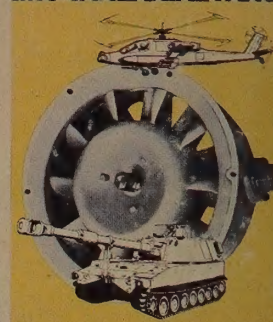


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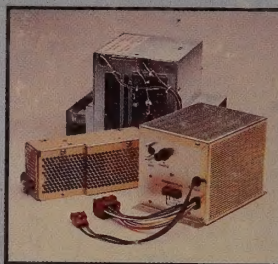


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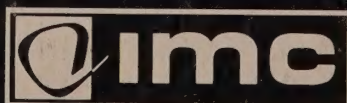


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